Appendix B
Air Quality Impact Analysis, Health Risk Assessment, and Greenhouse Gas Analysis

FONTANA FOOTHILLS COMMERCE CENTER
DRAFT EIR

Air Quality Impact Analysis

Fontana Foothill Commerce Center

AIR QUALITY IMPACT ANALYSIS

CITY OF FONTANA

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LIST OF ABBREVIATED TERMS

%	Percent
°F	Degrees Fahrenheit
(1)	Reference
1993 Handbook	CEQA Air Quality Handbook (1993)
µg/m^3	Microgram per Cubic Meter
AB 2595	California Clean Air Act
ACM	Asbestos-containing Materials
AQ	Air Quality
AQIA	Air Quality Impact Analysis
AQMD	Air Quality Management District
AQMP	Air Quality Management Plan
BACM	Best Available Control Measures
BAAQMD	Bay Area Air Quality Management District
BC	Black Carbon
Brief	Brief of Amicus Curiae by the SCAQMD in the Friant Ranch Case
C_2Cl_4	Perchloroethylene
C_2H_4	Acetaldehyde
C_4H_6	1,3-butadiene
C_6H_6	Benzene
CAA	Federal Clean Air Act
CAAQS	California Ambient Air Quality Standards
CalEEMod	California Emissions Estimator Model
CalEPA	California Environmental Protection Agency
CALGreen	California Green Building Standards Code
Caltrans	California Department of Transportation
CAPCOA	California Air Pollution Control Officers Association
CARB	California Air Resources Board
CCR	California Code of Regulations
CEC	California Energy Commission
CEQA	California Environmental Quality Act
CFR	Code of Federal Regulations
CH_2O	Formaldehyde
City	City of Fontana
CO	Carbon Monoxide
COH	Coefficient of Haze

COHb	carboxyhemoglobin
Cr(VI)	Hexavalent Chromium
CTP	Clean Truck Program
DPM	Diesel Particulate Matter
DRRP	Diesel Risk Reduction Plan
EC	Elemental Carbon
EIR	Environmental Impact Reports
EMFAC	EMissions FACtor Model
EPA	Environmental Protection Agency
ETW	Equivalent Test Weight
EV	Electric Vehicles
g/L	Grams Per Liter
GHG	Greenhouse Gas
GVWR	Gross Vehicle Weight Rating
H_2S	Hydrogen Sulfide
HDT	Heavy Duty Trucks
HI	Hazard Index
HHDT	Heavy-Heavy-Duty Trucks
hp	Horsepower
HRA	Health Risk Assessment
ITE	Institute of Transportation Engineers
lbs	Pounds
lbs/day	Pounds Per Day
LDA	Light Duty Auto
LDT1/LDT2	Light-Duty Trucks
LHDT	Light-Heavy-Duty Trucks
LST	Localized Significance Threshold
LST METHODOLOGY	Final Localized Significance Threshold Methodology
MATES	Multiple Air Toxics Exposure Study
MDV	Medium-Duty Vehicles
MHDT	Medium-Heavy-Duty Trucks
MICR	Maximum Individual Cancer Risk
MM	Mitigation Measures
N_2	Nitrogen
N_2O	Nitrous Oxide
NAAQS	National Ambient Air Quality Standards
NO	Nitric Oxide
NO_2	Nitrogen Dioxide

NO_X	Nitrogen Oxides
O_2	Oxygen
O_3	Ozone
OBD-II	On-Board Diagnostic
OPR	Office of Planning and Research
Pb	Lead
PM_{10}	Particulate Matter 10 microns in diameter or less
$PM_{2.5}$	Particulate Matter 2.5 microns in diameter or less
POLA	Port of Los Angeles
POLB	Port of Long Beach
ppm	Parts Per Million
Project	Fontana Foothill Commerce Center
R-PC	Residential Planned Community
RECLAIM	Regional Clean Air Incentives Market
RFG-2	Reformulated Gasoline Regulation
ROG	Reactive Organic Gases
RTP/SCS	Regional Transportation Plan/Sustainable Communities Strategy
Rule 403	Fugitive Dust
Rule 1113	Architectural Coating
SB	Senate Bill
SCAB	South Coast Air Basin
SCAG	Southern California Association of Governments
SCAQMD	South Coast Air Quality Management District
SF	Square Feet
SIPs	State Implementation Plans
SO_2	Sulfur Dioxide
SO_4	Sulfates
SO_X	Sulfur Oxides
SRA	Source Receptor Area
TAC	Toxic Air Contaminant
TIA	Traffic Impact Analysis
TITLE I	Non-Attainment Provisions
TITLE II	Mobile Sources Provisions
TMA	Transportation Management Association
UFP	Ultrafine Particles
UTRs	Utility Tractors
C_2H_3Cl	Vinyl Chloride

VMT	Vehicle Miles Traveled
VOC	Volatile Organic Compounds
VPH	Vehicles Per Hour
WMXU-1	Walkable Mixed-Use Corridor and Downtown

EXECUTIVE SUMMARY

ES.1 SUMMARY OF FINDINGS

The results of this *Fontana Foothill Commerce Center Air Quality Impact Analysis* are summarized below based on the significance criteria in Section 3 of this report consistent with Appendix G of the California Environmental Quality Act (CEQA) Guidelines (1). Table ES-1 shows the findings of significance for each potential air quality impact under CEQA before and after any required mitigation measures (MM) described below.

TABLE ES-1: SUMMARY OF CEQA SIGNIFICANCE FINDINGS

Analysis	Report Section	Significance Findings	
		Unmitigated	Mitigated
Regional Construction Emissions	3.4	*Less Than Significant*	*n/a*
Localized Construction Emissions	3.6	*Potentially Significant*	*Less Than Significant*
Regional Operational Emissions	3.5	*Potentially Significant*	*Significant and Unavoidable*
Localized Operational Emissions	3.7	*Less Than Significant*	*n/a*
CO "Hot Spot" Analysis	3.8	*Less Than Significant*	*n/a*
Air Quality Management Plan	3.9	*Potentially Significant*	*Significant and Unavoidable*
Sensitive Receptors	3.10	*Less Than Significant*	*n/a*
Odors	3.12	*Less Than Significant*	*n/a*
Cumulative Impacts	3.13	*Potentially Significant*	*Significant and Unavoidable*

ES.2 STANDARD REGULATORY REQUIREMENTS/BEST AVAILABLE CONTROL MEASURES

Measures listed below (or equivalent language) shall appear on all Project grading plans, construction specifications and bid documents, and the City shall ensure such language is incorporated prior to issuance of any development permits. South Coast Air Quality Management District (SCAQMD) Rules that are currently applicable during construction activity for this Project include but are not limited to Rule 403 (Fugitive Dust) and Rule 1113 (Architectural Coatings) (2) (3). It should be noted that these Best Available Control Measures (BACMs) are not mitigation as

they are standard regulatory requirements. Credit for emissions reductions resulting from application of Rule 403 and Rule 1113 are reflected in the analysis presented here.

BACM AQ-1

The contractor shall adhere to applicable measures contained in Table 1 of Rule 403 including, but not limited to (2):

- All clearing, grading, earth-moving, or excavation activities shall cease when winds exceed 25 mph per SCAQMD guidelines in order to limit fugitive dust emissions.
- The contractor shall ensure that all disturbed unpaved roads and disturbed areas within the Project are watered at least three (3) times daily during dry weather. Watering, with complete coverage of disturbed areas, shall occur at least three times a day, preferably in the mid-morning, afternoon, and after work is done for the day.
- The contractor shall ensure that traffic speeds on unpaved roads and Project site areas are limited to 15 miles per hour or less.

BACM AQ-2

The following measures shall be incorporated into Project plans and specifications as implementation of SCAQMD Rule 1113 (3):

- Only "Low-Volatile Organic Compounds (VOC)" paints (no more than 50 gram/liter (g/L) of VOC) consistent with SCAQMD Rule 1113 shall be used for building surface coatings.

ES.3 CONSTRUCTION-SOURCE MITIGATION MEASURES

It should be noted that mitigation is not needed to reduce estimated maximum daily construction regional emissions. However, MM AQ-1 would be required to decrease localized emissions.

MM AQ-1

During the site preparation phase, construction equipment greater than 150 horsepower (hp), the Construction Contractor shall ensure that off-road diesel construction equipment that complies with Environmental Protection Agency (EPA)/California Air Resources Board (CARB) Tier 3 emissions standards and shall ensure that all construction equipment is tuned and maintained in accordance with the manufacturer's specifications.

ES.4 OPERATIONAL-SOURCE MITIGATION MEASURES

The Project would exceed regional thresholds of significance established by the SCAQMD for emissions of nitrogen oxides (NO_X). It is important to note that 94 percent (%) of the Project's NO_X emissions are derived from heavy duty truck trips. The following mitigation measures (MM AQ-2 through MM AQ-7) are designed to reduce the operational NO_X emissions but will not be sufficient enough to reduce the NO_X emissions to less than the significant impacts.

MM AQ-2

Building operators shall ensure (by contract specifications) that equipment, including heavy-duty equipment, motor vehicles, and portable equipment, will be turned off when not in use for more than 5 minutes. Truck idling shall not exceed 5 minutes in time. All facilities will post signs requiring that trucks shall not be left idling for more than 5 minutes pursuant to Title 13 of the California Code of Regulations, Section 2485, which limits idle times to not more than 5 minutes.

MM AQ-3

The City will require operators of the project to ensure that haul trucks incorporate EPA Smartway features, as required by CARB. Project operators will maintain a daily log of incoming and outgoing haul trucks that are fitted with the combination of aerodynamic kits and low rolling resistance tires to reduce fuel consumption.

MM AQ-4

Prior to the issuance of occupancy permits the Project, the Project Applicant or their successor in interest shall provide the City of Fontana with an information packet that will be provided to future building occupants regarding the grants available from the Carl Moyer Memorial Air Quality Standards Attainment Program for energy efficiency improvement features – including truck modernization, retrofits, and/or aerodynamic kits and low rolling resistance tires – and the resulting benefits to air quality.

MM AQ-5

Prior to the issuance of building permits for the Project, the City of Fontana shall ensure that 1) the parking lot striping and security gating plan allows for adequate truck stacking at gates to prevent queuing of trucks outside the property; 2) preferential parking locations are identified on the respective site for carpool, vanpool, and clean air vehicles as required by the California Green Building Standards Code (CalGreen); and 3) secure, weather protected bicycle parking is provided for building employees as required by CalGreen. The City of Fontana shall ensure these design measures are in place prior to issuance of an occupancy permit.

MM AQ-6

Provide Electric Interior Vehicles. All buildings will be designed to provide infrastructure to support use of electric-powered forklifts and/or other interior vehicles.

MM AQ-7

A Transportation Management Association (TMA) or similar mechanism shall be established by the Project Applicant. The TMA shall encourage and coordinate carpooling. The TMA shall advertise its services to the building occupants. The TMA shall offer transit incentives to employees and shall provide shuttle service to and from public transit, should a minimum of five (5) employees request and use such service from a transit stop at the same drop-off and/or pickup time. The TMA shall distribute public transportation information to its employees. The TMA shall provide electronic message board space for coordination rides.

MM AQ-8

Prior to the issuance of occupancy permits for the Project, the City of Fontana shall verify that a sign has been installed at each truck exit driveway that provides directional information to the City's truck route. Text on the sign shall read "To Truck Route" with a directional arrow.

FEASIBILITY OF ADDITIONAL MITIGATION MEASURES

As noted above, 94% of the operational NO_X emissions derive from the operation of heavy-duty trucks. The CARB through its regulatory programs is aggressively reducing emissions from heavy duty vehicles through a combination of measures requiring the use of ultra-low sulfur diesel fuel, new emission standards, restrictions on idling, addition of post-combustion filter and catalyst equipment, and retrofits for diesel truck fleets. These programs are expected to result in significant reductions in NO_X, VOCs, particulate matter (PM), and carbon monoxide (CO) emissions as they are fully implemented by 2023.

Federal and State agencies regulate and enforce vehicle emission standards. It is not feasible for the City of Fontana staff to effectively enforce a prohibition on trucks from entering the property that are otherwise permitted to operate in California and access other properties in the City, region, and State. Even if the City were to apply such a restriction, it would merely cause warehouse operators using truck fleets older than 2007/2010 to locate in another location in the SCAB where the restriction does not apply, thereby resulting in no improvement to regional air quality. Based on the regulatory changes discussed in Section 2.8, Regulatory Setting, most heavy-duty trucks entering the project site will meet or exceed EPA 2007 and 2010 emission standards within a relatively short time after the project becomes fully operational in 2022, and all such trucks entering the property will meet or exceed such standards by 2023. For instance, CARB projects that are approximately 50% of all instate heavy-heavy duty trucks will meet the 2010 engine standard in 2019. The percentage increases to 59% in 2020, 62% in 2021, 65% in 2022, and 90% by 2023 (4).

Since neither the Project Applicant nor the City have regulatory authority to control tailpipe emissions, no feasible mitigation measures exist that would reduce NO_X emissions to levels that are less-than-significant, thus NO_X emissions are considered significant and unavoidable.

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1 INTRODUCTION

This report presents the results of the air quality impact analysis (AQIA) prepared by Urban Crossroads, Inc., for the proposed Fontana Foothill Commerce Center (Project).

The purpose of this AQIA is to evaluate the potential impacts to air quality associated with construction and operation of the Project and recommend measures to mitigate impacts considered potentially significant in comparison to thresholds established by the SCAQMD.

1.1 SITE LOCATION

The proposed Fontana Foothill Commerce Center site which is located east of Juniper Avenue and north of Jurupa Avenue in the City of Fontana, as shown on Exhibit 1-A. The Project site is currently occupied with residential homes. Existing residential uses are located east of the Project site at the northwest corner of Jurupa Avenue and Sierra Avenue are planned to be developed in the future as commercial retail land use. The vacant site to the west of Juniper Avenue is planned for development as part of the Goodman Industrial Park Fontana III. The Project site is designated for Residential Planned Community (R-PC) and Walkable Mixed-Use Corridor and Downtown (WMXU-1) uses.

1.2 PROJECT DESCRIPTION

Exhibit B illustrates the site plan for the Project. As indicated on Exhibit B, the proposed Project is to consist of 754,408 square feet (sf) of warehouse/distribution center use across two buildings:

- Building 1: 432,569 sf of high-cube transload and short-term warehouse use;
- Building 2: 321,839 sf of high-cube transload and short-term warehouse use.

To present the potential worst-case conditions, the Project is assumed to be operational 24 hours per day, seven days per week. It is expected that the Project business operations would primarily be conducted within the enclosed buildings, except for traffic movement, parking, as well as loading and unloading of trucks at designated loading bays.

Per the *Fontana Foothill Commerce Center Traffic Impact Analysis* (TIA) prepared by Urban Crossroads, Inc., the Project is expected to generate a total of approximately 1,058 two-way vehicular trips per day (529 inbound and 529 outbound) which includes 342 two-way truck trips per day (171 inbound and 171 outbound) (5).

EXHIBIT 1-A: LOCATION MAP

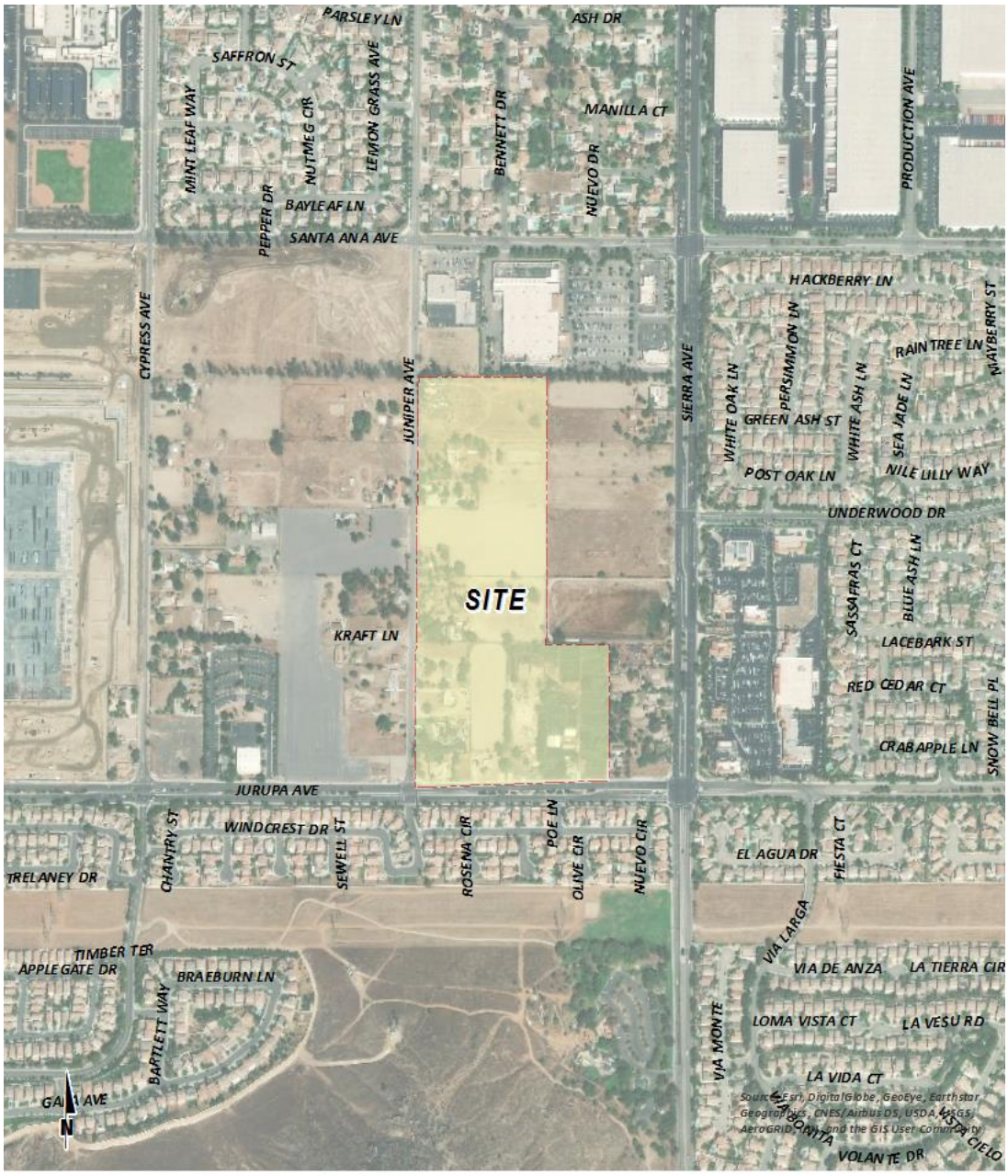
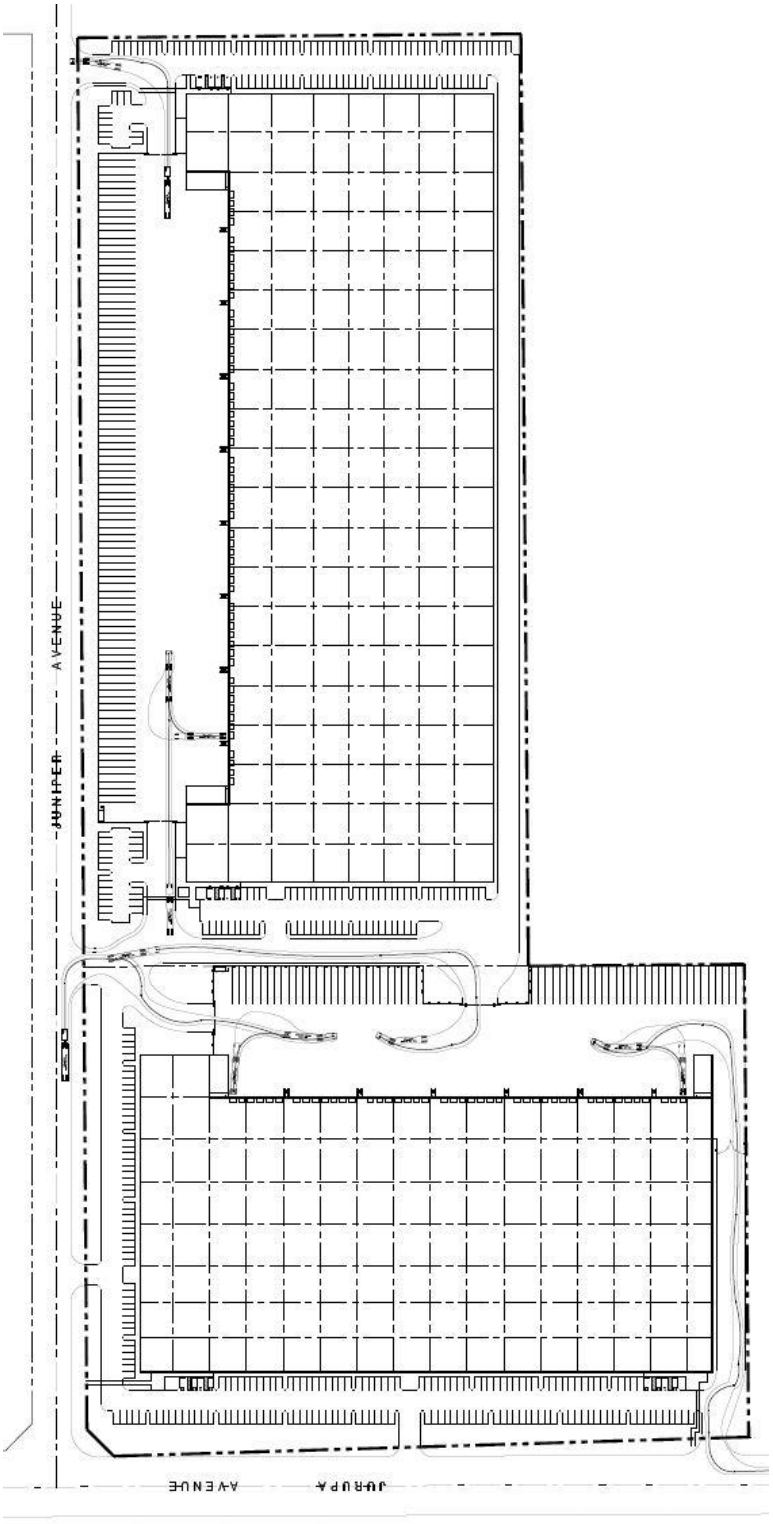


EXHIBIT 1-B: SITE PLAN



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2 AIR QUALITY SETTING

This section provides an overview of the existing air quality conditions in the Project area and region.

2.1 SOUTH COAST AIR BASIN

The Project site is located in the South Coast Air Basin (SCAB) within the jurisdiction of SCAQMD (6). The SCAQMD was created by the 1977 Lewis-Presley Air Quality Management Act, which merged four county air pollution control bodies into one regional district. Under the Act, the SCAQMD is responsible for bringing air quality in areas under its jurisdiction into conformity with federal and state air quality standards. As previously stated, the Project site is located within the SCAB, a 6,745-square mile subregion of the SCAQMD, which includes portions of Los Angeles, Riverside, and San Bernardino Counties, and all of Orange County.

The SCAB is bounded by the Pacific Ocean to the west and the San Gabriel, San Bernardino, and San Jacinto Mountains to the north and east. The Los Angeles County portion of the Mojave Desert Air Basin is bounded by the San Gabriel Mountains to the south and west, the Los Angeles/ Kern County border to the north, and the Los Angeles/ San Bernardino County border to the east. The Riverside County portion of the Salton Sea Air Basin is bounded by the San Jacinto Mountains in the west and spans eastward up to the Palo Verde Valley.

2.2 REGIONAL CLIMATE

The regional climate has a substantial influence on air quality in the SCAB. In addition, the temperature, wind, humidity, precipitation, and amount of sunshine influence the air quality.

The annual average temperatures throughout the SCAB vary from the low to middle 60s (degrees Fahrenheit). Due to a decreased marine influence, the eastern portion of the SCAB shows greater variability in average annual minimum and maximum temperatures. January is the coldest month throughout the SCAB, with average minimum temperatures of 47°F in downtown Los Angeles and 36°F in San Bernardino. All portions of the SCAB have recorded maximum temperatures above 100°F.

Although the climate of the SCAB can be characterized as semi-arid, the air near the land surface is quite moist on most days because of the presence of a marine layer. This shallow layer of sea air is an important modifier of SCAB climate. Humidity restricts visibility in the SCAB, and the conversion of sulfur dioxide (SO_2) to sulfates is heightened in air with high relative humidity. The marine layer provides an environment for that conversion process, especially during the spring and summer months. The annual average relative humidity within the SCAB is 71% along the coast and 59% inland. Since the ocean effect is dominant, periods of heavy early morning fog are frequent and low stratus clouds are a characteristic feature. These effects decrease with distance from the coast.

More than 90% of the SCAB's rainfall occurs from November through April. The annual average rainfall varies from approximately nine inches in Riverside to fourteen inches in downtown Los

Angeles. Monthly and yearly rainfall totals are extremely variable. Summer rainfall usually consists of widely scattered thunderstorms near the coast and slightly heavier shower activity in the eastern portion of the SCAB with frequency being higher near the coast.

Due to its generally clear weather, about three-quarters of available sunshine is received in the SCAB. The remaining one-quarter is absorbed by clouds. The ultraviolet portion of this abundant radiation is a key factor in photochemical reactions. On the shortest day of the year there are approximately 10 hours of possible sunshine, and on the longest day of the year there are approximately 14½ hours of possible sunshine.

The importance of wind to air pollution is considerable. The direction and speed of the wind determines the horizontal dispersion and transport of the air pollutants. During the late autumn to early spring rainy season, the SCAB is subjected to wind flows associated with the traveling storms moving through the region from the northwest. This period also brings five to ten periods of strong, dry offshore winds, locally termed "Santa Anas" each year. During the dry season, which coincides with the months of maximum photochemical smog concentrations, the wind flow is bimodal, typified by a daytime onshore sea breeze and a nighttime offshore drainage wind. Summer wind flows are created by the pressure differences between the relatively cold ocean and the unevenly heated and cooled land surfaces that modify the general northwesterly wind circulation over southern California. Nighttime drainage begins with the radiational cooling of the mountain slopes. Heavy, cool air descends the slopes and flows through the mountain passes and canyons as it follows the lowering terrain toward the ocean. Another characteristic wind regime in the SCAB is the "Catalina Eddy," a low level cyclonic (counterclockwise) flow centered over Santa Catalina Island which results in an offshore flow to the southwest. On most spring and summer days, some indication of an eddy is apparent in coastal sections.

In the SCAB, there are two distinct temperature inversion structures that control vertical mixing of air pollution. During the summer, warm high-pressure descending (subsiding) air is undercut by a shallow layer of cool marine air. The boundary between these two layers of air is a persistent marine subsidence/inversion. This boundary prevents vertical mixing which effectively acts as an impervious lid to pollutants over the entire SCAB. The mixing height for the inversion structure is normally situated 1,000 to 1,500 feet above mean sea level.

A second inversion-type forms in conjunction with the drainage of cool air off the surrounding mountains at night followed by the seaward drift of this pool of cool air. The top of this layer forms a sharp boundary with the warmer air aloft and creates nocturnal radiation inversions. These inversions occur primarily in the winter, when nights are longer and onshore flow is weakest. They are typically only a few hundred feet above mean sea level. These inversions effectively trap pollutants, such as NO_X and CO from vehicles, as the pool of cool air drifts seaward. Winter is therefore a period of high levels of primary pollutants along the coastline.

2.3 WIND PATTERNS AND PROJECT LOCATION

The distinctive climate of the Project area and the SCAB is determined by its terrain and geographical location. The SCAB is located in a coastal plain with connecting broad valleys and

low hills, bounded by the Pacific Ocean in the southwest quadrant with high mountains forming the remainder of the perimeter.

Wind patterns across the south coastal region are characterized by westerly and southwesterly onshore winds during the day and easterly or northeasterly breezes at night. Winds are characteristically light although the speed is somewhat greater during the dry summer months than during the rainy winter season.

2.4 CRITERIA POLLUTANTS

Criteria pollutants are pollutants that are regulated through the development of human health based and/or environmentally based criteria for setting permissible levels. Criteria pollutants, their typical sources, and health effects are identified below (7):

TABLE 2-1: CRITERIA POLLUTANTS

Criteria Pollutant	Description	Sources	Health Effects
CO	CO is a colorless, odorless gas produced by the incomplete combustion of carbon-containing fuels, such as gasoline or wood. CO concentrations tend to be the highest during the winter morning, when little to no wind and surface-based inversions trap the pollutant at ground levels. Because CO is emitted directly from internal combustion engines, unlike ozone (O_3), motor vehicles operating at slow speeds are the primary source of CO in the SCAB. The highest ambient CO concentrations are generally found near congested transportation corridors and intersections.	Any source that burns fuel such as automobiles, trucks, heavy construction equipment, farming equipment and residential heating.	Individuals with a deficient blood supply to the heart are the most susceptible to the adverse effects of CO exposure. The effects observed include earlier onset of chest pain with exercise, and electrocardiograph changes indicative of decreased oxygen supply to the heart. Inhaled CO has no direct toxic effect on the lungs but exerts its effect on tissues by interfering with oxygen transport and competing with oxygen to combine with hemoglobin present in the blood to form carboxyhemoglobin (COHb). Hence, conditions with an increased demand for oxygen supply can be adversely affected by exposure to CO. Individuals most at risk include fetuses, patients with diseases involving heart and blood vessels, and patients with chronic hypoxemia (oxygen deficiency) as seen at high altitudes.

Criteria Pollutant	Description	Sources	Health Effects
SO_2	SO_2 is a colorless, extremely irritating gas or liquid. It enters the atmosphere as a pollutant mainly as a result of burning high sulfur-content fuel oils and coal and from chemical processes occurring at chemical plants and refineries. When SO_2 oxidizes in the atmosphere, it forms sulfates (SO_4). Collectively, these pollutants are referred to as sulfur oxides (SO_X)	Coal or oil burning power plants and industries, refineries, diesel engines	A few minutes of exposure to low levels of SO_2 can result in airway constriction in some asthmatics, all of whom are sensitive to its effects. In asthmatics, increase in resistance to air flow, as well as reduction in breathing capacity leading to severe breathing difficulties, are observed after acute exposure to SO_2. In contrast, healthy individuals do not exhibit similar acute responses even after exposure to higher concentrations of SO_2. Animal studies suggest that despite SO_2 being a respiratory irritant, it does not cause substantial lung injury at ambient concentrations. However, very high levels of exposure can cause lung edema (fluid accumulation), lung tissue damage, and sloughing off of cells lining the respiratory tract. Some population-based studies indicate that the mortality and morbidity effects associated with fine particles show a similar association with ambient SO_2 levels. In these studies, efforts to separate the effects of SO_2 from those of fine particles have not been successful. It is not clear whether the two pollutants act synergistically, or one pollutant alone is the predominant factor.

Criteria Pollutant	Description	Sources	Health Effects
NO_X	NO_X consist of nitric oxide (NO), nitrogen dioxide (NO_2) and nitrous oxide (N_2O) and are formed when nitrogen (N_2) combines with oxygen (O_2). Their lifespan in the atmosphere ranges from one to seven days for nitric oxide and NO_2, to 170 years for N_2O. NO_X is typically created during combustion processes and are major contributors to smog formation and acid deposition. NO_2 is a criteria air pollutant and may result in numerous adverse health effects; it absorbs blue light, resulting in a brownish-red cast to the atmosphere and reduced visibility. Of the seven types of NO_X compounds, NO_2 is the most abundant in the atmosphere. As ambient concentrations of NO_2 are related to traffic density, commuters in heavy traffic may be exposed to higher concentrations of NO_2 than those indicated by regional monitoring station.	Any source that burns fuel such as automobiles, trucks, heavy construction equipment, farming equipment and residential heating.	Population-based studies suggest that an increase in acute respiratory illness, including infections and respiratory symptoms in children (not infants), is associated with long-term exposure to NO_2 at levels found in homes with gas stoves, which are higher than ambient levels found in Southern California. Increase in resistance to air flow and airway contraction is observed after short-term exposure to NO_2 in healthy subjects. Larger decreases in lung functions are observed in individuals with asthma or chronic obstructive pulmonary disease (e.g., chronic bronchitis, emphysema) than in healthy individuals, indicating a greater susceptibility of these sub-groups. In animals, exposure to levels of NO_2 considerably higher than ambient concentrations result in increased susceptibility to infections, possibly due to the observed changes in cells involved in maintaining immune functions. The severity of lung tissue damage associated with high levels of O_3 exposure increases when animals are exposed to a combination of O_3 and NO_2.
O_3	O_3 is a highly reactive and unstable gas that is formed when VOCs and NO_X, both byproducts of internal combustion engine exhaust, undergo slow photochemical reactions in the presence of sunlight. O_3 concentrations are generally highest during the summer	Formed when reactive organic gases (ROG) and NO_X react in the presence of sunlight. ROG sources include any source that burns fuels, (e.g., gasoline,	Individuals exercising outdoors, children, and people with preexisting lung disease, such as asthma and chronic pulmonary lung disease, are considered to be the most susceptible sub-groups for O_3 effects. Short-term exposure (lasting for a

Criteria Pollutant	Description	Sources	Health Effects
	months when direct sunlight, light wind, and warm temperature conditions are favorable to the formation of this pollutant.	natural gas, wood, oil) solvents, petroleum processing and storage and pesticides.	few hours) to O_3 at levels typically observed in Southern California can result in breathing pattern changes, reduction of breathing capacity, increased susceptibility to infections, inflammation of the lung tissue, and some immunological changes. Elevated O_3 levels are associated with increased school absences. In recent years, a correlation between elevated ambient O_3 levels and increases in daily hospital admission rates, as well as mortality, has also been reported. An increased risk for asthma has been found in children who participate in multiple outdoor sports and live in communities with high O_3 levels. O_3 exposure under exercising conditions is known to increase the severity of the responses described above. Animal studies suggest that exposure to a combination of pollutants that includes O_3 may be more toxic than exposure to O_3 alone. Although lung volume and resistance changes observed after a single exposure diminish with repeated exposures, biochemical and cellular changes appear to persist, which can lead to subsequent lung structural changes.
PM_{10} and $PM_{2.5}$	PM_{10} (PM less than 10 microns): A major air pollutant consisting of tiny solid or liquid particles of soot, dust, smoke, fumes, and aerosols. PM pollution is a major cause of reduce visibility (haze) which is caused by the scattering	Sources of PM_{10} include road dust, windblown dust and construction. Also formed from other pollutants (acid rain, NO_X, SO_X,	A consistent correlation between elevated ambient fine PM (PM_{10} and $PM_{2.5}$) levels and an increase in mortality rates, respiratory infections, number and severity of asthma attacks

Criteria Pollutant	Description	Sources	Health Effects
	of light and consequently the significant reduction air clarity. The size of the particles (10 microns or smaller, about 0.0004 inches or less) allows them to easily enter the lungs where they may be deposited, resulting in adverse health effects. Additionally, it should be noted that PM_{10} is considered a criteria air pollutant. $PM_{2.5}$ (PM less than 2.5 microns): A similar air pollutant to PM_{10} consisting of tiny solid or liquid particles which are 2.5 microns or smaller (which is often referred to as fine particles). These particles are formed in the atmosphere from primary gaseous emissions that include sulfates formed from SO_2 release from power plants and industrial facilities and nitrates that are formed from NO_X release from power plants, automobiles and other types of combustion sources. The chemical composition of fine particles highly depends on location, time of year, and weather conditions. $PM_{2.5}$ is a criteria air pollutant.	organics). Incomplete combustion of any fuel. $PM_{2.5}$ comes from fuel combustion in motor vehicles, equipment and industrial sources, residential and agricultural burning. Also formed from reaction of other pollutants (acid rain, NO_X, SO_X, organics).	and the number of hospital admissions has been observed in different parts of the United States and various areas around the world. In recent years, some studies have reported an association between long-term exposure to air pollution dominated by fine particles and increased mortality, reduction in lifespan, and an increased mortality from lung cancer. Daily fluctuations in $PM_{2.5}$ concentration levels have also been related to hospital admissions for acute respiratory conditions in children, to school and kindergarten absences, to a decrease in respiratory lung volumes in normal children, and to increased medication use in children and adults with asthma. Recent studies show lung function growth in children is reduced with long term exposure to PM. The elderly, people with pre-existing respiratory or cardiovascular disease, and children appear to be more susceptible to the effects of high levels of PM_{10} and $PM_{2.5}$.
Volatile Organic Compounds (VOC)	VOCs are hydrocarbon compounds (any compound containing various combinations of hydrogen and carbon atoms) that exist in the ambient air. VOCs contribute to the formation of smog through atmospheric photochemical reactions and/or may be toxic. Compounds of carbon (also known as organic compounds) have different levels of reactivity; that is, they do not react at the same speed or do not form O_3 to the same extent when exposed to photochemical	Organic chemicals are widely used as ingredients in household products. Paints, varnishes and wax all contain organic solvents, as do many cleaning, disinfecting, cosmetic, degreasing and hobby products. Fuels are made up of organic	Breathing VOCs can irritate the eyes, nose and throat, can cause difficulty breathing and nausea, and can damage the central nervous system as well as other organs. Some VOCs can cause cancer. Not all VOCs have all these health effects, though many have several.

Criteria Pollutant	Description	Sources	Health Effects
	processes. VOCs often have an odor, and some examples include gasoline, alcohol, and the solvents used in paints. Exceptions to the VOC designation include CO, carbon dioxide, carbonic acid, metallic carbides or carbonates, and ammonium carbonate. VOCs are a criteria pollutant since they are a precursor to O_3, which is a criteria pollutant. The terms VOC and ROG (see below) interchangeably.	chemicals. All of these products can release organic compounds while you are using them, and, to some degree, when they are stored.	
ROG	Similar to VOC, ROGs are also precursors in forming O_3 and consist of compounds containing methane, ethane, propane, butane, and longer chain hydrocarbons, which are typically the result of some type of combustion/decomposition process. Smog is formed when ROG and NO_X react in the presence of sunlight. ROGs are a criteria pollutant since they are a precursor to O_3, which is a criteria pollutant. The terms ROG and VOC (see previous) interchangeably.	Sources similar to VOCs.	Health effects similar to VOCs.
Lead (Pb)	Lead is a heavy metal that is highly persistent in the environment and is considered a criteria pollutant. In the past, the primary source of lead in the air was emissions from vehicles burning leaded gasoline. The major sources of lead emissions are ore and metals processing, particularly lead smelters, and piston-engine aircraft operating on leaded aviation gasoline. Other stationary sources include waste incinerators, utilities, and lead-acid battery manufacturers. It should be noted that the Project does not include operational activities such as metal processing or lead acid	Metal smelters, resource recovery, leaded gasoline, deterioration of lead paint.	Fetuses, infants, and children are more sensitive than others to the adverse effects of Pb exposure. Exposure to low levels of Pb can adversely affect the development and function of the central nervous system, leading to learning disorders, distractibility, inability to follow simple commands, and lower intelligence quotient. In adults, increased Pb levels are associated with increased blood pressure. Pb poisoning can cause anemia, lethargy, seizures, and death; although it

Criteria Pollutant	Description	Sources	Health Effects
	battery manufacturing. As such, the Project is not anticipated to generate a quantifiable amount of lead emissions.		appears that there are no direct effects of Pb on the respiratory system. Pb can be stored in the bone from early age environmental exposure, and elevated blood Pb levels can occur due to breakdown of bone tissue during pregnancy, hyperthyroidism (increased secretion of hormones from the thyroid gland) and osteoporosis (breakdown of bony tissue). Fetuses and breast-fed babies can be exposed to higher levels of Pb because of previous environmental Pb exposure of their mothers.
Odor	Odor means the perception experienced by a person when one or more chemical substances in the air come into contact with the human olfactory nerves (8).	Odors can come from many sources including animals, human activities, industry, natures, and vehicles.	Offensive odors can potentially affect human health in several ways. First, odorant compounds can irritate the eye, nose, and throat, which can reduce respiratory volume. Second, studies have shown that the VOCs that cause odors can stimulate sensory nerves to cause neurochemical changes that might influence health, for instance, by compromising the immune system. Finally, unpleasant odors can trigger memories or attitudes linked to unpleasant odors, causing cognitive and emotional effects such as stress.

2.5 EXISTING AIR QUALITY

Existing air quality is measured at established SCAQMD air quality monitoring stations. Monitored air quality is evaluated in the context of ambient air quality standards. These standards are the levels of air quality that are considered safe, with an adequate margin of safety, to protect the public health and welfare. National Ambient Air Quality Standards (NAAQS) and California Ambient Air Quality Standards (CAAQS) currently in effect are shown in Table 2-2 (9).

The determination of whether a region's air quality is healthful or unhealthful is determined by comparing contaminant levels in ambient air samples to the state and federal standards. At the time of this AQIA, the most recent state and federal standards were updated by CARB on May ,4 2016 and are presented in Table 2-2. The air quality in a region is considered to be in attainment by the state if the measured ambient air pollutant levels for O_3, CO (except 8-hour Lake Tahoe), SO_2 (1 and 24 hour), NO_2, PM_{10}, and $PM_{2.5}$ are not to be exceeded. All others are not to be equaled or exceeded. It should be noted that the three-year period is presented for informational purposes and is not the basis for how the State assigns attainment status. Attainment status for a pollutant means that the Air District meets the standards set by the EPA or the California EPA (CalEPA). Conversely, nonattainment means that an area has monitored air quality that does not meet the NAAQS or CAAQS standards. In order to improve air quality in nonattainment areas, a State Implementation Plan (SIP) is drafted by CARB. The SIP outlines the measures that the state will take to improve air quality. Once nonattainment areas meet the standards and additional redesignation requirements, the EPA will designate the area as a maintenance area (10).

TABLE 2-2: AMBIENT AIR QUALITY STANDARDS (1 OF 2)

Ambient Air Quality Standards						
Pollutant	**Averaging Time**	**California Standards [1]**		**National Standards [2]**		
		Concentration [3]	**Method [4]**	**Primary [3,5]**	**Secondary [3,6]**	**Method [7]**
Ozone (O_3)[8]	1 Hour	0.09 ppm (180 µg/m^3)	Ultraviolet Photometry	—	Same as Primary Standard	Ultraviolet Photometry
	8 Hour	0.070 ppm (137 µg/m^3)		0.070 ppm (137 µg/m^3)		
Respirable Particulate Matter (PM10)[9]	24 Hour	50 µg/m^3	Gravimetric or Beta Attenuation	150 µg/m^3	Same as Primary Standard	Inertial Separation and Gravimetric Analysis
	Annual Arithmetic Mean	20 µg/m^3		—		
Fine Particulate Matter (PM2.5)[9]	24 Hour	—	—	35 µg/m^3	Same as Primary Standard	Inertial Separation and Gravimetric Analysis
	Annual Arithmetic Mean	12 µg/m^3	Gravimetric or Beta Attenuation	12.0 µg/m^3	15 µg/m^3	
Carbon Monoxide (CO)	1 Hour	20 ppm (23 mg/m^3)	Non-Dispersive Infrared Photometry (NDIR)	35 ppm (40 mg/m^3)	—	Non-Dispersive Infrared Photometry (NDIR)
	8 Hour	9.0 ppm (10 mg/m^3)		9 ppm (10 mg/m^3)	—	
	8 Hour (Lake Tahoe)	6 ppm (7 mg/m^3)		—	—	
Nitrogen Dioxide (NO_2)[10]	1 Hour	0.18 ppm (339 µg/m^3)	Gas Phase Chemiluminescence	100 ppb (188 µg/m^3)	—	Gas Phase Chemiluminescence
	Annual Arithmetic Mean	0.030 ppm (57 µg/m^3)		0.053 ppm (100 µg/m^3)	Same as Primary Standard	
Sulfur Dioxide (SO_2)[11]	1 Hour	0.25 ppm (655 µg/m^3)	Ultraviolet Fluorescence	75 ppb (196 µg/m^3)	—	Ultraviolet Flourescence; Spectrophotometry (Pararosaniline Method)
	3 Hour	—		—	0.5 ppm (1300 µg/m^3)	
	24 Hour	0.04 ppm (105 µg/m^3)		0.14 ppm (for certain areas)[11]	—	
	Annual Arithmetic Mean	—		0.030 ppm (for certain areas)[11]	—	
Lead[12,13]	30 Day Average	1.5 µg/m^3	Atomic Absorption	—	—	High Volume Sampler and Atomic Absorption
	Calendar Quarter	—		1.5 µg/m^3 (for certain areas)[12]	Same as Primary Standard	
	Rolling 3-Month Average	—		0.15 µg/m^3		
Visibility Reducing Particles[14]	8 Hour	See footnote 14	Beta Attenuation and Transmittance through Filter Tape	**No National Standards**		
Sulfates	24 Hour	25 µg/m^3	Ion Chromatography			
Hydrogen Sulfide	1 Hour	0.03 ppm (42 µg/m^3)	Ultraviolet Fluorescence			
Vinyl Chloride[12]	24 Hour	0.01 ppm (26 µg/m^3)	Gas Chromatography			

See footnotes on next page …

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TABLE 2-2: AMBIENT AIR QUALITY STANDARDS (2 OF 2)

1. California standards for ozone, carbon monoxide (except 8-hour Lake Tahoe), sulfur dioxide (1 and 24 hour), nitrogen dioxide, and particulate matter (PM10, PM2.5, and visibility reducing particles), are values that are not to be exceeded. All others are not to be equaled or exceeded. California ambient air quality standards are listed in the Table of Standards in Section 70200 of Title 17 of the California Code of Regulations.
2. National standards (other than ozone, particulate matter, and those based on annual arithmetic mean) are not to be exceeded more than once a year. The ozone standard is attained when the fourth highest 8-hour concentration measured at each site in a year, averaged over three years, is equal to or less than the standard. For PM10, the 24 hour standard is attained when the expected number of days per calendar year with a 24-hour average concentration above 150 $\mu g/m^3$ is equal to or less than one. For PM2.5, the 24 hour standard is attained when 98 percent of the daily concentrations, averaged over three years, are equal to or less than the standard. Contact the U.S. EPA for further clarification and current national policies.
3. Concentration expressed first in units in which it was promulgated. Equivalent units given in parentheses are based upon a reference temperature of 25°C and a reference pressure of 760 torr. Most measurements of air quality are to be corrected to a reference temperature of 25°C and a reference pressure of 760 torr; ppm in this table refers to ppm by volume, or micromoles of pollutant per mole of gas.
4. Any equivalent measurement method which can be shown to the satisfaction of the ARB to give equivalent results at or near the level of the air quality standard may be used.
5. National Primary Standards: The levels of air quality necessary, with an adequate margin of safety to protect the public health.
6. National Secondary Standards: The levels of air quality necessary to protect the public welfare from any known or anticipated adverse effects of a pollutant.
7. Reference method as described by the U.S. EPA. An "equivalent method" of measurement may be used but must have a "consistent relationship to the reference method" and must be approved by the U.S. EPA.
8. On October 1, 2015, the national 8-hour ozone primary and secondary standards were lowered from 0.075 to 0.070 ppm.
9. On December 14, 2012, the national annual PM2.5 primary standard was lowered from 15 $\mu g/m^3$ to 12.0 $\mu g/m^3$. The existing national 24-hour PM2.5 standards (primary and secondary) were retained at 35 $\mu g/m^3$, as was the annual secondary standard of 15 $\mu g/m^3$. The existing 24-hour PM10 standards (primary and secondary) of 150 $\mu g/m^3$ also were retained. The form of the annual primary and secondary standards is the annual mean, averaged over 3 years.
10. To attain the 1-hour national standard, the 3-year average of the annual 98th percentile of the 1-hour daily maximum concentrations at each site must not exceed 100 ppb. Note that the national 1-hour standard is in units of parts per billion (ppb). California standards are in units of parts per million (ppm). To directly compare the national 1-hour standard to the California standards the units can be converted from ppb to ppm. In this case, the national standard of 100 ppb is identical to 0.100 ppm.
11. On June 2, 2010, a new 1-hour SO_2 standard was established and the existing 24-hour and annual primary standards were revoked. To attain the 1-hour national standard, the 3-year average of the annual 99th percentile of the 1-hour daily maximum concentrations at each site must not exceed 75 ppb. The 1971 SO_2 national standards (24-hour and annual) remain in effect until one year after an area is designated for the 2010 standard, except that in areas designated nonattainment for the 1971 standards, the 1971 standards remain in effect until implementation plans to attain or maintain the 2010 standards are approved.

    Note that the 1-hour national standard is in units of parts per billion (ppb). California standards are in units of parts per million (ppm). To directly compare the 1-hour national standard to the California standard the units can be converted to ppm. In this case, the national standard of 75 ppb is identical to 0.075 ppm.
12. The ARB has identified lead and vinyl chloride as 'toxic air contaminants' with no threshold level of exposure for adverse health effects determined. These actions allow for the implementation of control measures at levels below the ambient concentrations specified for these pollutants.
13. The national standard for lead was revised on October 15, 2008 to a rolling 3-month average. The 1978 lead standard (1.5 $\mu g/m^3$ as a quarterly average) remains in effect until one year after an area is designated for the 2008 standard, except that in areas designated nonattainment for the 1978 standard, the 1978 standard remains in effect until implementation plans to attain or maintain the 2008 standard are approved.
14. In 1989, the ARB converted both the general statewide 10-mile visibility standard and the Lake Tahoe 30-mile visibility standard to instrumental equivalents, which are "extinction of 0.23 per kilometer" and "extinction of 0.07 per kilometer" for the statewide and Lake Tahoe Air Basin standards, respectively.

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2.6 REGIONAL AIR QUALITY

Air pollution contributes to a wide variety of adverse health effects. The EPA has established NAAQS for six of the most common air pollutants: CO, Pb, O_3, PM_{10}, $PM_{2.5}$, NO_2, and SO_2 which are known as criteria pollutants. The SCAQMD monitors levels of various criteria pollutants at 37 permanent monitoring stations and 5 single-pollutant source Pb air monitoring sites throughout the air district (11). On February 21, 2019, CARB posted the 2018 amendments to the state and national area designations. See Table 2-3 for attainment designations for the SCAB (12). Appendix 2.1 provides geographic representation of the state and federal attainment status for applicable criteria pollutants within the SCAB.

TABLE 2-3: ATTAINMENT STATUS OF CRITERIA POLLUTANTS IN THE SCAB

Criteria Pollutant	State Designation	Federal Designation
O_3 – 1-hour standard	Nonattainment	--
O_3 – 8-hour standard	Nonattainment	Nonattainment
PM_{10}	Nonattainment	Attainment
$PM_{2.5}$	Nonattainment	Nonattainment
CO	Attainment	Unclassifiable/Attainment
NO_2	Attainment	Unclassifiable/Attainment
SO_2	Unclassifiable/Attainment	Unclassifiable/Attainment
Pb[1]	Attainment	Unclassifiable/Attainment

Note: See Appendix 2.1 for a detailed map of State/National Area Designations within the SCAB
"-" = The national 1-hour O_3 standard was revoked effective June 15, 2005.

2.7 LOCAL AIR QUALITY

The Project site is located within the Source Receptor Area (SRA) 34 (13). Within SRA 34, the SCAQMD Central San Bernardino Valley 1 monitoring station is located 4.45 miles northwest of the Project site and is the nearest long-term air quality monitoring site for O_3, CO, NO_2, PM_{10}, and $PM_{2.5}$.

The most recent three (3) years of data available is shown on Table 2-3 and identifies the number of days ambient air quality standards were exceeded for the study area, which is considered to be representative of the local air quality at the Project site. Data for O_3, CO, NO_2, PM_{10}, and $PM_{2.5}$ for 2016 through 2018 was obtained from the SCAQMD Air Quality Data Tables (14). Additionally, data for SO_2 has been omitted as attainment is regularly met in the SCAB and few monitoring stations measure SO_2 concentrations.

[1] The Federal nonattainment designation for lead is only applicable towards the Los Angeles County portion of the SCAB.

TABLE 2-4: PROJECT AREA AIR QUALITY MONITORING SUMMARY 2016-2018

POLLUTANT	STANDARD	YEAR		
		2016	2017	2018
O_3				
Maximum Federal 1-Hour Concentration (ppm)		0.139	0.137	0.141
Maximum Federal 8-Hour Concentration (ppm)		0.105	0.118	0.111
Number of Days Exceeding State 1-Hour Standard	> 0.09 ppm	34	49	38
Number of Days Exceeding State/Federal 8-Hour Standard	> 0.070 ppm	52	49	69
CO				
Maximum Federal 1-Hour Concentration	> 35 ppm	1.7	1.6	1.9
Maximum Federal 8-Hour Concentration	> 20 ppm	1.0	1.3	1.1
NO_2				
Maximum Federal 1-Hour Concentration	> 0.100 ppm	0.072	0.069	0.063
Annual Average		18.2	18.3	18.3
PM_{10}				
Maximum Federal 24-Hour Concentration ($\mu g/m^3$)	> 150 $\mu g/m^3$	94	75	64
Annual Federal Arithmetic Mean ($\mu g/m^3$)		38.1	39.3	34.1
Number of Days Exceeding Federal 24-Hour Standard	> 150 $\mu g/m^3$	0	0	0
Number of Days Exceeding State 24-Hour Standard	> 50 $\mu g/m^3$	15	7	9
$PM_{2.5}$				
Maximum Federal 24-Hour Concentration ($\mu g/m^3$)	> 35 $\mu g/m^3$	30.45	39.2	29.2
Annual Federal Arithmetic Mean ($\mu g/m^3$)	> 12 $\mu g/m^3$	12.0	12.0	11.1
Number of Days Exceeding Federal 24-Hour Standard	> 35 $\mu g/m^3$	0	1	0

ppm = Parts Per Million
Source: Data for O_3, CO, NO_2, PM_{10}, and $PM_{2.5}$ was obtained from SCAQMD Air Quality Data Tables.

2.8 REGULATORY BACKGROUND

2.8.1 FEDERAL REGULATIONS

The EPA is responsible for setting and enforcing the NAAQS for O_3, CO, NO_x, SO_2, PM_{10}, and Pb (15). The EPA has jurisdiction over emissions sources that are under the authority of the federal government including aircraft, locomotives, and emissions sources outside state waters (Outer Continental Shelf). The EPA also establishes emission standards for vehicles sold in states other than California. Automobiles sold in California must meet the stricter emission requirements of the CARB.

The Federal Clean Air Act (CAA) was first enacted in 1955 and has been amended numerous times in subsequent years (1963, 1965, 1967, 1970, 1977, and 1990). The CAA establishes the federal air quality standards, the NAAQS, and specifies future dates for achieving compliance (16). The CAA also mandates that states submit and implement SIPs for local areas not meeting these

standards. These plans must include pollution control measures that demonstrate how the standards will be met.

The 1990 amendments to the CAA that identify specific emission reduction goals for areas not meeting the NAAQS require a demonstration of reasonable further progress toward attainment and incorporate additional sanctions for failure to attain or to meet interim milestones. The sections of the CAA most directly applicable to the development of the Project site include Title I (Non-Attainment Provisions) and Title II (Mobile Source Provisions) (17) (18). Title I provisions were established with the goal of attaining the NAAQS for the following criteria pollutants O_3, NO_2, SO_2, PM_{10}, CO, $PM_{2.5}$, and Pb. The NAAQS were amended in July 1997 to include an additional standard for O_3 and to adopt a NAAQS for $PM_{2.5}$. Table 2-3 (previously presented) provides the NAAQS within the SCAB.

Mobile source emissions are regulated in accordance with Title II provisions. These provisions require the use of cleaner burning gasoline and other cleaner burning fuels such as methanol and natural gas. Automobile manufacturers are also required to reduce tailpipe emissions of hydrocarbons and NO_X. NO_X is a collective term that includes all forms of NO_X (NO, NO_2, NO_3) which are emitted as byproducts of the combustion process.

2.8.2 CALIFORNIA REGULATIONS

California Air Resource Board (CARB). The CARB, which became part of the CalEPA in 1991, is responsible for ensuring implementation of the California Clean Air Act (AB 2595), responding to the federal CAA, and for regulating emissions from consumer products and motor vehicles. AB 2595 mandates achievement of the maximum degree of emissions reductions possible from vehicular and other mobile sources in order to attain the state ambient air quality standards by the earliest practical date. The CARB established the CAAQS for all pollutants for which the federal government has NAAQS and, in addition, establishes standards for sulfates, visibility, hydrogen sulfide, and vinyl chloride. However, at this time, hydrogen sulfide and vinyl chloride are not measured at any monitoring stations in the SCAB because they are not considered to be a regional air quality problem. Generally, the CAAQS are more stringent than the NAAQS (19) (15).

Local air quality management districts, such as the SCAQMD, regulate air emissions from stationary sources such as commercial and industrial facilities. All air pollution control districts have been formally designated as attainment or non-attainment for each CAAQS.

Serious non-attainment areas are required to prepare air quality management plans that include specified emission reduction strategies in an effort to meet clean air goals. These plans are required to include:

- Application of Best Available Retrofit Control Technology to existing sources;
- Developing control programs for area sources (e.g., architectural coatings and solvents) and indirect sources (e.g. motor vehicle use generated by residential and commercial development);
- A District permitting system designed to allow no net increase in emissions from any new or modified permitted sources of emissions;

- Implementing reasonably available transportation control measures and assuring a substantial reduction in growth rate of vehicle trips and miles traveled;
- Significant use of low emissions vehicles by fleet operators;
- Sufficient control strategies to achieve a 5% or more annual reduction in emissions or 15% or more in a period of three years for ROGs, NO_X, CO and PM_{10}. However, air basins may use alternative emission reduction strategy that achieves a reduction of less than 5% per year under certain circumstances.

Title 24 Energy Efficiency Standards and California Green Building Standards. CCR Title 24 Part 6: California's Energy Efficiency Standards for Residential and Nonresidential Buildings, was first adopted in 1978 in response to a legislative mandate to reduce California's energy consumption. The standards are updated periodically to allow consideration and possible incorporation of new energy efficient technologies and methods. CCR, Title 24, Part 11: California Green Building Standards Code (CALGreen) is a comprehensive and uniform regulatory code for all residential, commercial, and school buildings that went in effect on January 1, 2011, and is administered by the California Building Standards Commission. CALGreen is updated on a regular basis, with the most recent approved update consisting of the 2019 California Green Building Code Standards that became effective on January 1, 2020. Local jurisdictions are permitted to adopt more stringent requirements, as state law provides methods for local enhancements. CALGreen recognizes that many jurisdictions have developed existing construction and demolition ordinances and defers to them as the ruling guidance provided, they establish a minimum 65% diversion requirement. The code also provides exemptions for areas not served by construction and demolition recycling infrastructure. The State Building Code provides the minimum standard that buildings must meet in order to be certified for occupancy, which is generally enforced by the local building official.

Energy efficient buildings require less electricity; therefore, increased energy efficiency reduces fossil fuel consumption and decreases greenhouse gas (GHG) emissions. The 2019 version of Title 24 was adopted by the California Energy Commission (CEC) and became effective on January 1, 2020.

The 2019 Title 24 standards will result in less energy use, thereby reducing air pollutant emissions associated with energy consumption in the SCAB and across the State of California. For example, the 2019 Title 24 standards will require solar photovoltaic systems for new homes, establish requirements for newly constructed healthcare facilities, encourage demand responsive technologies for residential buildings, and update indoor and outdoor lighting requirements for nonresidential buildings. The CEC anticipates that single-family homes built with the 2019 standards will use approximately 7% less energy compared to the residential homes built under the 2016 standards. Additionally, after implementation of solar photovoltaic systems, homes built under the 2019 standards will use about 53% less energy than homes built under the 2016 standards. Nonresidential buildings (such as the Project) will use approximately 30% less energy due to lighting upgrade requirements (20).

The following 2019 CALGreen standards are applicable to the Project and require, among other items (21):

- Short-term bicycle parking. If the new project or an additional alteration is anticipated to generate visitor traffic, provide permanently anchored bicycle racks within 200 feet of the visitors' entrance, readily visible to passers-by, for 5% of new visitor motorized vehicle parking spaces being added, with a minimum of one two-bike capacity rack (5.106.4.1.1).
- Long-term bicycle parking. For new buildings with tenant spaces that have 10 or more tenant-occupants, provide secure bicycle parking for 5% of the tenant-occupant vehicular parking spaces with a minimum of one bicycle parking facility (5.106.4.1.2).
- Designated parking. In new projects or additions to alterations that add 10 or more vehicular parking spaces, provide designated parking for any combination of low-emitting, fuel-efficient and carpool/van pool vehicles as shown in Table 5.106.5.2 (5.106.5.2).
- Construction waste management. Recycle and/or salvage for reuse a minimum of 65% of the nonhazardous construction and demolition waste in accordance with Section 5.408.1.1. 5.405.1.2, or 5.408.1.3; or meet a local construction and demolition waste management ordinance, whichever is more stringent (5.408.1).
- Excavated soil and land clearing debris. 100% of trees, stumps, rocks and associated vegetation and soils resulting primarily from land clearing shall be reused or recycled. For a phased project, such material may be stockpiled on site until the storage site is developed (5.408.3).
- Recycling by Occupants. Provide readily accessible areas that serve the entire building and are identified for the depositing, storage and collection of non-hazardous materials for recycling, including (at a minimum) paper, corrugated cardboard, glass, plastics, organic waste, and metals or meet a lawfully enacted local recycling ordinance, if more restrictive (5.410.1).
- Water conserving plumbing fixtures and fittings. Plumbing fixtures (water closets and urinals) and fittings (faucets and showerheads) shall comply with the following:
    - Water Closets. The effective flush volume of all water closets shall not exceed 1.28 gallons per flush (5.303.3.1)
    - Urinals. The effective flush volume of wall-mounted urinals shall not exceed 0.125 gallons per flush (5.303.3.2.1). The effective flush volume of floor-mounted or other urinals shall not exceed 0.5 gallons per flush (5.303.3.2.2).
    - Showerheads. Single showerheads shall have a minimum flow rate of not more than 1.8 gallons per minute and 80 psi (5.303.3.3.1). When a shower is served by more than one showerhead, the combine flow rate of all showerheads and/or other shower outlets controlled by a single valve shall not exceed 1.8 gallons per minute at 80 psi (5.303.3.3.2).
    - Faucets and fountains. Nonresidential lavatory faucets shall have a maximum flow rate of note more than 0.5 gallons per minute at 60 psi (5.303.3.4.1). Kitchen faucets shall have a maximum flow rate of not more than 1.8 gallons per minute of 60 psi (5.303.3.4.2). Wash fountains shall have a maximum flow rate of not more than 1.8 gallons per minute (5.303.3.4.3). Metering faucets shall not deliver more than 0.20 gallons per cycle (5.303.3.4.4). Metering faucets for wash fountains shall have a maximum flow rate not more than 0.20 gallons per cycle (5.303.3.4.5).
- Outdoor portable water use in landscaped areas. Nonresidential developments shall comply with a local water efficient landscape ordinance or the current California Department of Water Resources' Model Water Efficient (MWELO), whichever is more stringent (5.304.1).
- Water meters. Separate submeters or metering devices shall be installed for new buildings or additions in excess of 50,000 sf or for excess consumption where any tenant within a new building

or within an addition that is project to consume more than 1,000 gal/day (5.303.1.1 and 5.303.1.2).

- Outdoor water use in rehabilitated landscape projects equal or greater than 2,500 sf. Rehabilitated landscape projects with an aggregate landscape area equal to or greater than 2,500 sf requiring a building or landscape permit (5.304.3).
- Commissioning. For new buildings 10,000 sf and over, building commissioning shall be included in the design and construction processes of the building project to verify that the building systems and components meet the owner's or owner representative's project requirements (5.410.2).

2.8.3 AIR QUALITY MANAGEMENT PLANNING

Currently, the NAAQS and CAAQS are exceeded in most parts of the SCAB. In response, the SCAQMD has adopted a series of Air Quality Management Plans (AQMP) to meet the state and federal ambient air quality standards (22). AQMPs are updated regularly in order to more effectively reduce emissions, accommodate growth, and to minimize any negative fiscal impacts of air pollution control on the economy. A detailed discussion on the AQMP and Project consistency with the AQMP is provided in Section 3.9.

2.9 REGIONAL AIR QUALITY IMPROVEMENT

The Project is within the jurisdiction of the SCAQMD. In 1976, California adopted the Lewis Air Quality Management Act which created SCAQMD from a voluntary association of air pollution control districts in Los Angeles, Orange, Riverside, and San Bernardino counties. The geographic area of which SCAQMD consists is known as the SCAB. SCAQMD develops comprehensive plans and regulatory programs for the region to attain federal standards by dates specified in federal law. The agency is also responsible for meeting state standards by the earliest date achievable, using reasonably available control measures.

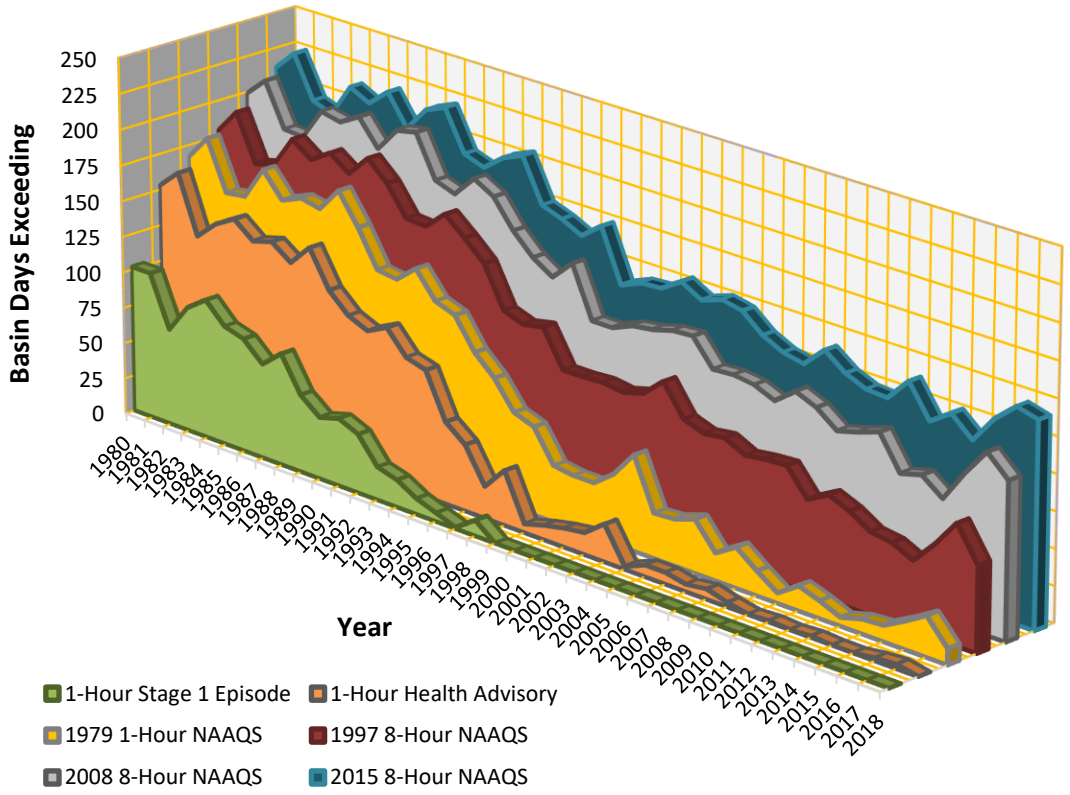
SCAQMD rule development through the 1970s and 1980s resulted in dramatic improvement in SCAB air quality. Nearly all control programs developed through the early 1990s relied on (i) the development and application of cleaner technology; (ii) add-on emission controls, and (iii) uniform CEQA review throughout the SCAB. Industrial emission sources have been significantly reduced by this approach and vehicular emissions have been reduced by technologies implemented at the state level by CARB.

As discussed above, the SCAQMD is the lead agency charged with regulating air quality emission reductions for the entire SCAB. SCAQMD created AQMPs which represent a regional blueprint for achieving healthful air on behalf of the 16 million residents of the SCAB. The 2012 AQMP states, "the remarkable historical improvement in air quality since the 1970's is the direct result of Southern California's comprehensive, multiyear strategy of reducing air pollution from all sources as outlined in its AQMPs," (23).

Emissions of O_3, NO_X, VOC, and CO have been decreasing in the SCAB since 1975 and are projected to continue to decrease through 2020 (24). These decreases result primarily from motor vehicle controls and reductions in evaporative emissions. Although vehicle miles traveled (VMT) in the SCAB continue to increase, NO_X and VOC levels are decreasing because of the mandated controls on motor vehicles and the replacement of older polluting vehicles with lower-

emitting vehicles. NO_X emissions from electric utilities have also decreased due to use of cleaner fuels and renewable energy. O_3 contour maps show that the number of days exceeding the 8-hour NAAQS has decreased between 1997 and 2007. In the 2007 period, there was an overall decrease in exceedance days compared with the 1997 period. However, as shown on Table 2-5, O_3 levels have increased in the past two years due to higher temperatures and stagnant weather conditions. Notwithstanding, O_3 levels in the SCAB have decreased substantially over the last 30 years with the current maximum measured concentrations being approximately one-third of concentrations within the late 70's (25).

TABLE 2-5: SCAB O_3 TREND



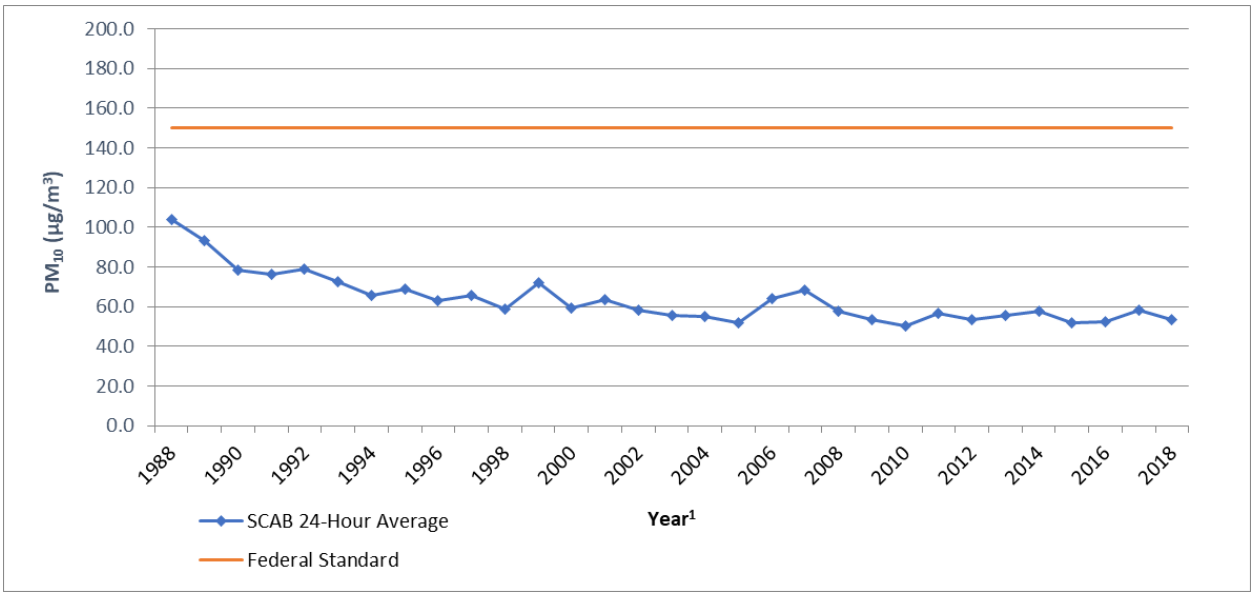
Source: SCAQMD

The overall trends of PM_{10} and $PM_{2.5}$ levels in the air (not emissions) show an overall improvement since 1975. Direct emissions of PM_{10} have remained somewhat constant in the SCAB and direct emissions of $PM_{2.5}$ have decreased slightly since 1975. Area wide sources (fugitive dust from roads, dust from construction and demolition, and other sources) contribute the greatest amount of direct PM emissions.

As with other pollutants, the most recent PM_{10} statistics show an overall improvement as illustrated in Tables 2-6 and 2-7. During the period for which data are available, the 24-hour national annual average concentration for PM_{10} decreased by approximately 48%, from 103.7 $\mu g/m^3$ in 1988 to 53.5 $\mu g/m^3$ in 2018 (26). Although the values are below the federal standard, it

should be noted that there are days within the year where the concentrations will exceed the threshold. The 24-hour state annual average for emissions for PM_{10}, have decreased by approximately 53% since 1988 (26). Although data in the late 1990's show some variability, this is probably due to the advances in meteorological science rather than a change in emissions. Similar to the ambient concentrations, the calculated number of days above the 24-hour PM_{10} standards has also shown an overall drop.

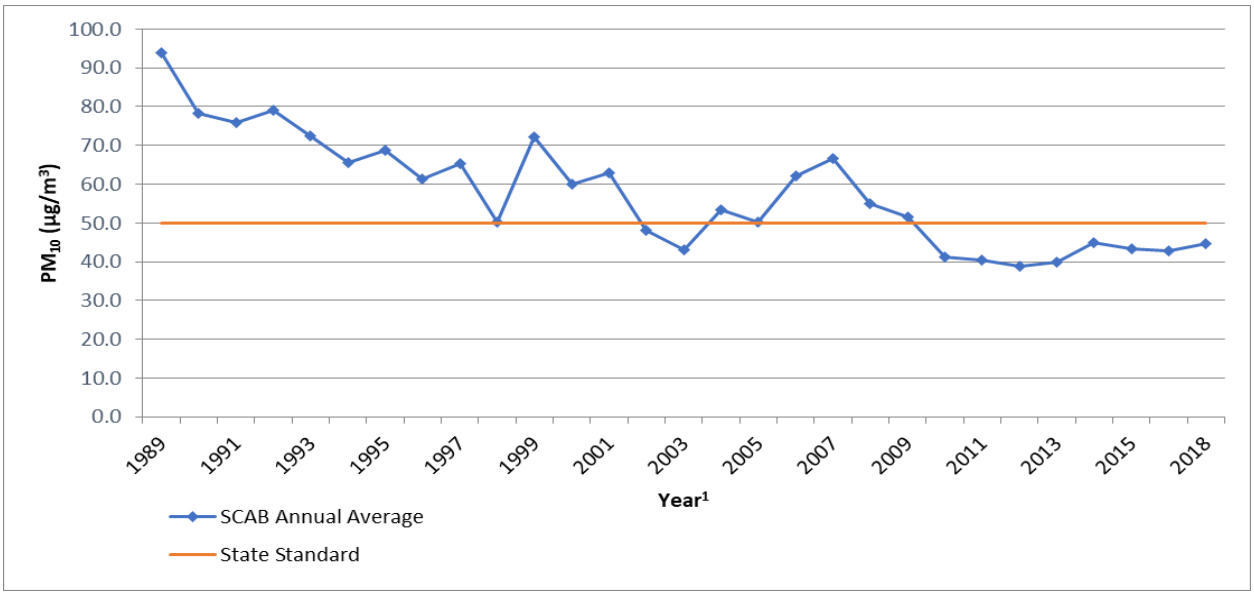
TABLE 2-6: SCAB AVERAGE 24-HOUR CONCENTRATION PM_{10} TREND (BASED ON FEDERAL STANDARD)[1]



Source: CARB

[1] Some year have been omitted from the table as insufficient data (or no) data has been reported. Years with reported value of "0" have also been omitted.

TABLE 2-7: SCAB ANNUAL AVERAGE CONCENTRATION PM_{10} TREND (BASED ON STATE STANDARD)[1]

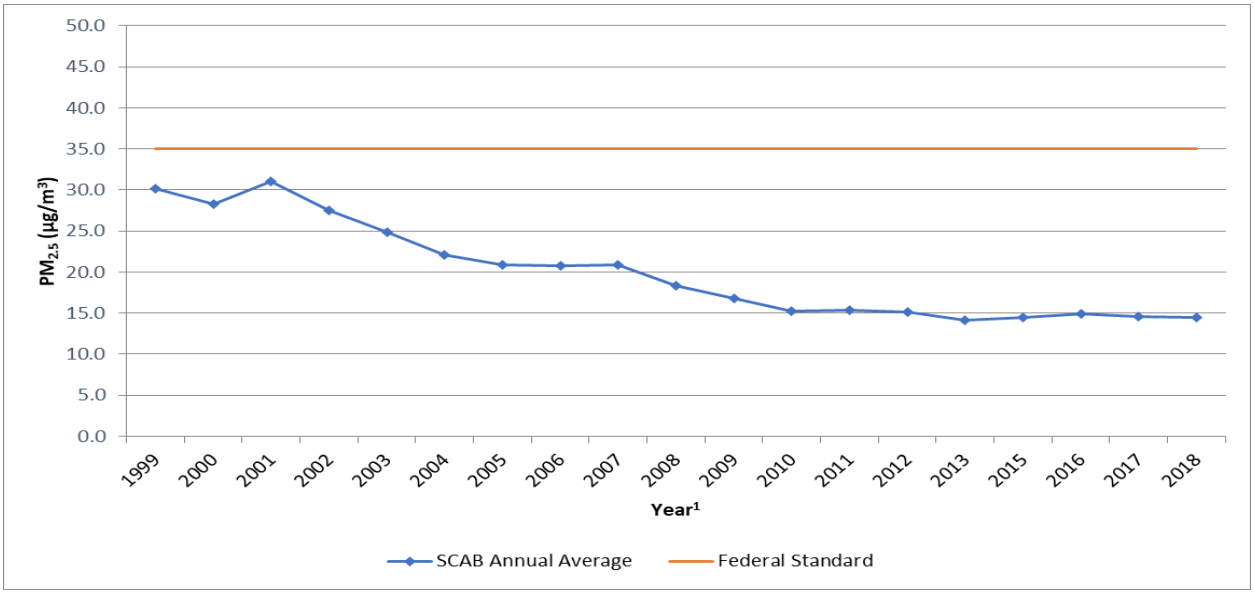


Source: CARB

[1] Some year have been omitted from the table as insufficient data (or no) data has been reported. Years with reported value of "0" have also been omitted.

Tables 2-8 and 2-9 shows the most recent 24-hour average $PM_{2.5}$ concentrations in the SCAB from 1999 through 2018. Overall, the national and state annual average concentrations have decreased by almost 52% and 33% respectively (26). It should be noted that the SCAB is currently designated as nonattainment for the state and federal $PM_{2.5}$ standards.

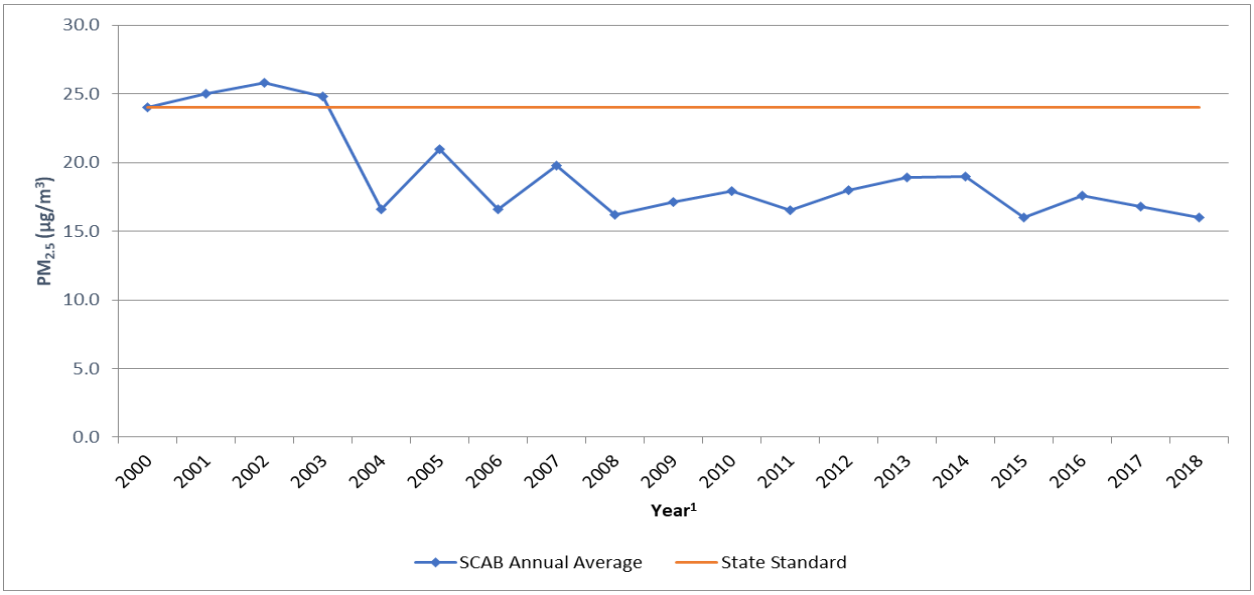
TABLE 2-8: SCAB 24-HOUR AVERAGE CONCENTRATION $PM_{2.5}$ TREND (BASED ON FEDERAL STANDARD)[1]



Source: CARB

[1] Some year have been omitted from the table as insufficient data (or no) data has been reported. Years with reported value of "0" have also been omitted.

TABLE 2-9: SCAB ANNUAL AVERAGE CONCENTRATION $PM_{2.5}$ TREND (BASED ON STATE STANDARD)[1]



Source: CARB

[1] Some year have been omitted from the table as insufficient data (or no) data has been reported. Years with reported value of "0" have also been omitted.

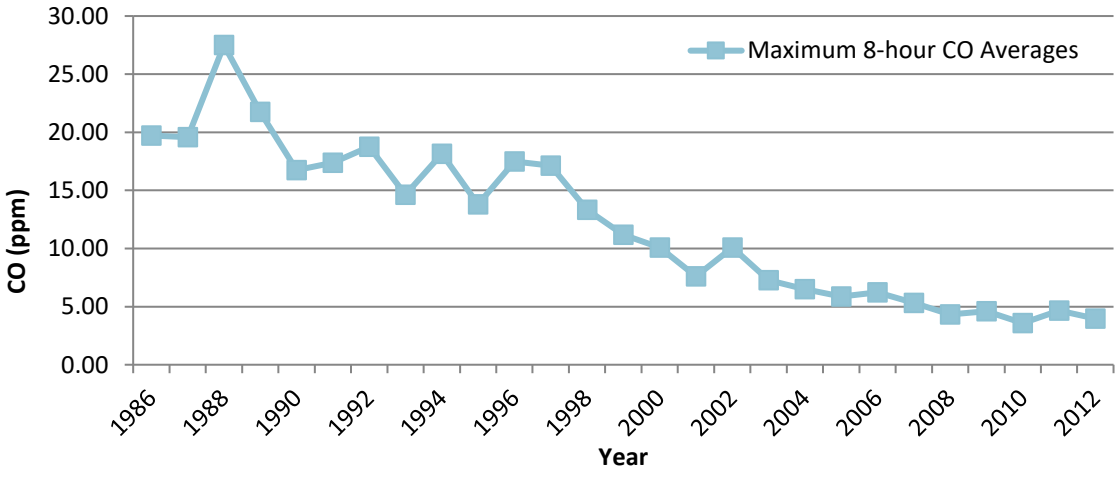
While the 2012 AQMP PM_{10} attainment demonstration and the 2015 associated supplemental SIP submission indicated that attainment of the 24-hour standard was predicted to occur by the end of 2015, it could not anticipate the effect of the ongoing drought on the measured $PM_{2.5}$.

The 2006 to 2010 base period used for the 2012 attainment demonstration had near-normal rainfall. While the trend of $PM_{2.5}$- equivalent emission reductions continued through 2015, the severe drought conditions contributed to the $PM_{2.5}$ increases observed after 2012. As a result of the disrupted progress toward attainment of the federal 24-hour $PM_{2.5}$ standard, SCAQMD submitted a request and the EPA approved, in January 2016, a "bump up" to the nonattainment classification from "moderate" to "serious," with a new attainment deadline as soon as practicable, but not beyond December 31, 2019.

In March 2017, the AQMD released the Final 2016 AQMP. The 2016 AQMP continues to evaluate current integrated strategies and control measures to meet the NAAQS, as well as, explore new and innovative methods to reach its goals. Some of these approaches include utilizing incentive programs, recognizing existing co-benefit programs from other sectors, and developing a strategy with fair-share reductions at the federal, state, and local levels (27). Similar to the 2012 AQMP, the 2016 AQMP incorporates scientific and technological information and planning assumptions, including the 2016 Regional Transportation Plan/Sustainable Communities Strategy (RTP/SCS) and updated emission inventory methodologies for various source categories (28).

The most recent CO concentrations in the SCAB are shown in Table 2-10 (26). CO concentrations in the SCAB have decreased markedly — a total decrease of more about 80% in the peak 8-hour concentration since 1986. It should be noted 2012 is the most recent year where 8-hour CO averages and related statistics are available in the SCAB. The number of exceedance days has also declined. The entire SCAB is now designated as attainment for both the state and national CO standards. Ongoing reductions from motor vehicle control programs should continue the downward trend in ambient CO concentrations.

TABLE 2-10: SCAB 24-HOUR AVERAGE CONCENTRATION CO TREND[1]



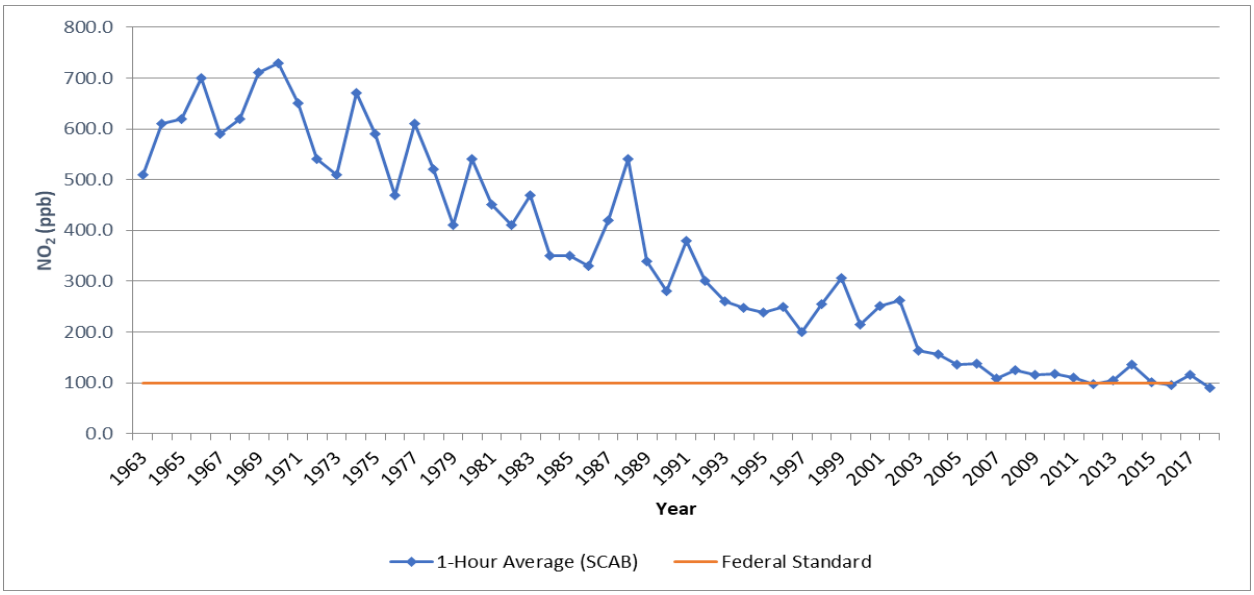
Source: CARB

[1] The most recent year where 8-hour concentration data is available is 2012.

Part of the control process of the SCAQMD's duty to greatly improve the air quality in the SCAB is the uniform CEQA review procedures required by SCAQMD's *CEQA Air Quality Handbook (1993)* (referred to herein as "1993 Handbook") (29). The single threshold of significance used to assess Project direct and cumulative impacts has in fact "worked" as evidenced by the track record of the air quality in the SCAB dramatically improving over the course of the past decades. As stated by the SCAQMD, the District's thresholds of significance are based on factual and scientific data and are therefore appropriate thresholds of significance to use for this Project.

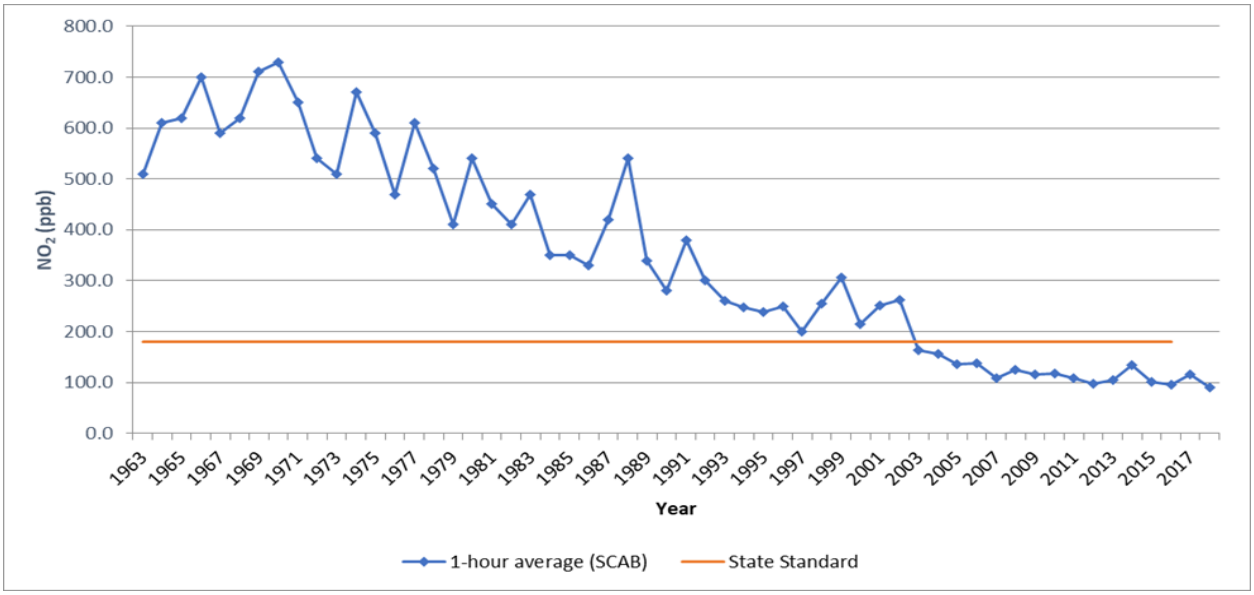
The most recent NO_2 data for the SCAB is shown in Tables 2-11 and 2-12 (26). Over the last 50 years, NO_2 values have decreased significantly; the peak 1-hour national and state averages for 2018 is approximately 82% lower than what it was during 1963. The SCAB attained the State 1-hour NO_2 standard in 1994, bringing the entire state into attainment. A new state annual average standard of 0.030 parts per million was adopted by the ARB in February 2007 (30). The new standard is just barely exceeded in the SCAQMD. NO_2 is formed from NO_X emissions, which also contribute to O_3. As a result, the majority of the future emission control measures will be implemented as part of the overall O_3 control strategy. Many of these control measures will target mobile sources, which account for more than three-quarters of California's NO_X emissions. These measures are expected to bring the SCAQMD into attainment of the state annual average standard.

TABLE 2-11: SCAB 1-HOUR AVERAGE CONCENTRATION NO_2 TREND (BASED ON FEDERAL STANDARD)



Source: CARB

TABLE 2-12: SCAB 1-HOUR AVERAGE CONCENTRATION NO_2 TREND (BASED ON STATE STANDARD)



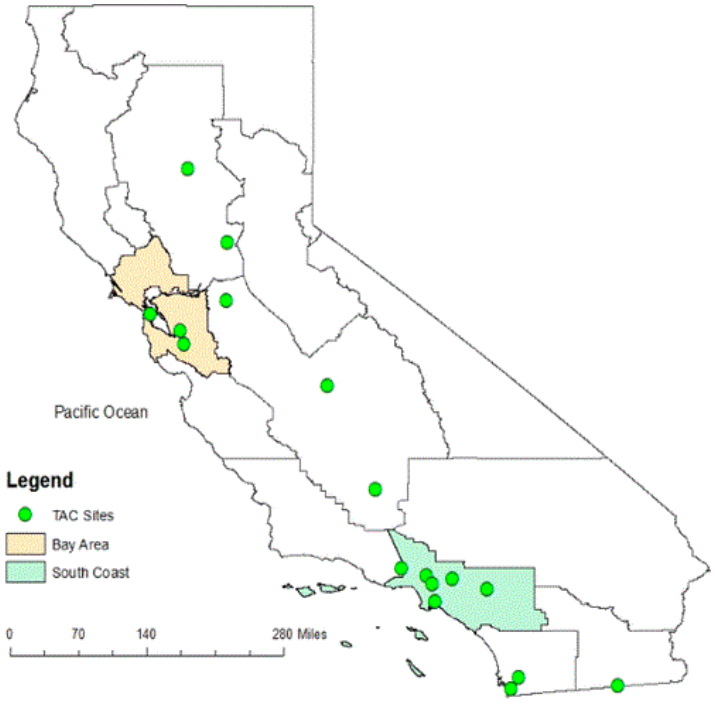
Source: CARB

TOXIC AIR CONTAMINANTS (TACS) TRENDS

In 1984, as a result of public concern for exposure to airborne carcinogens, the CARB adopted regulations to reduce the amount of air toxic contaminant emissions resulting from mobile and area sources, such as cars, trucks, stationary products, and consumer products. According to the *Ambient and Emission Trends of Toxic Air Contaminants in California* journal article (31) which was prepared for CARB, results show that between 1990-2012, ambient concentration and emission trends for the seven TACs responsible for most of the known cancer risk associated with airborne exposure in California have declined significantly (between 1990 and 2012). The seven TACs studied include those that are derived from mobile sources: diesel particulate matter (DPM), benzene, and 1,3-butadiene; those that are derived from stationary sources: perchloroethylene (C_2Cl_4) and hexavalent chromium (Cr(VI)); and those derived from photochemical reactions of emitted VOCs: formaldehyde (CH_2O) and acetaldehyde (C_2H_4)[2]. TACs data was gathered at monitoring sites from both the Bay Area and SCAB, as shown on Exhibit 2-A; Several of the sites in the SCAB include Reseda, Compton, Rubidoux, Burbank, and Fontana. The decline in ambient concentration and emission trends of these TACs are a result of various regulations CARB has implemented to address cancer risk.

[2] It should be noted that ambient DPM concentrations are not measured directly. Rather, a surrogate method using the coefficient of haze (COH) and elemental carbon (EC) is used to estimate DPM concentrations.

EXHIBIT 2-A: CALIFORNIA TOXIC AIR CONTAMINANT SITES



Source: CARB

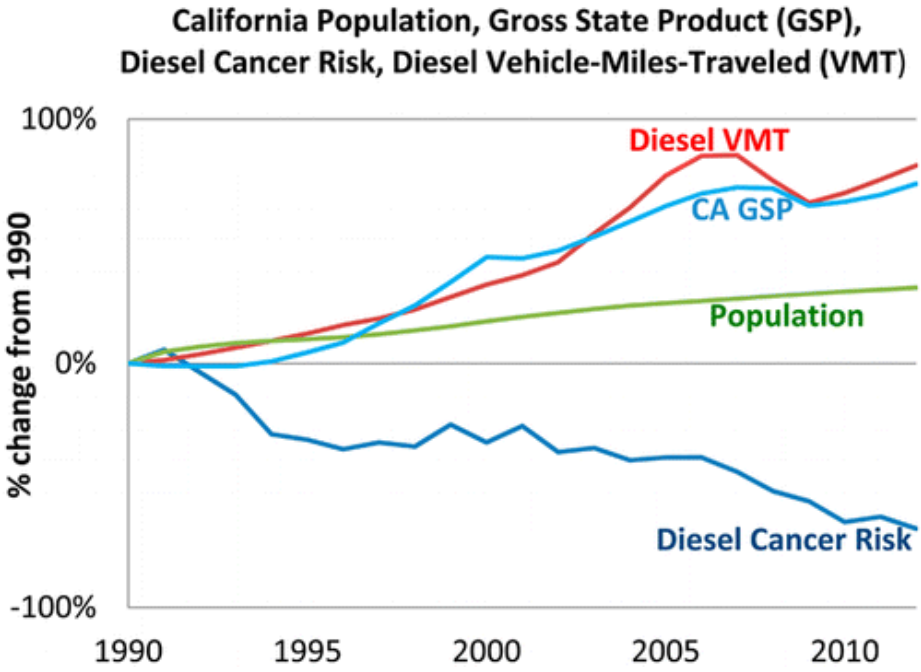
Mobile Source TACs

CARB introduced two programs that aimed at reducing mobile emissions for light and medium duty vehicles through vehicle emissions controls and cleaner fuel. In California, light-duty vehicles sold after 1996 are equipped with California's second-generation On-Board Diagnostic (OBD-II) system. The OBD-II system monitors virtually every component that can affect the emission performance of the vehicle to ensure that the vehicle remains as clean as possible over its entire life and assists repair technicians in diagnosing and fixing problems with the computerized engine controls. If a problem is detected, the OBD-II system illuminates a warning lamp on the vehicle instrument panel to alert the driver. This warning lamp typically contains the phrase "Check Engine" or "Service Engine Soon". The system will also store important information about the detected malfunction so that a repair technician can accurately find and fix the problem. ARB has recently developed similar OBD requirements for heavy-duty vehicles over 14,000 lbs CARB's phase II Reformulated Gasoline Regulation (RFG-2), adopted in 1996, also led to a reduction of mobile source emissions. Through such regulations, benzene levels declined 88% from 1990-2012. 1,3-Butadiene (C_4H_6)concentrations also declined 85% from 1990-2012 as a result of the use of reformulated gasoline and motor vehicle regulations (31).

In 2000, CARB's Diesel Risk Reduction Plan (DRRP) recommended the replacement and retrofit of diesel-fueled engines and the use of ultra-low-sulfur (<15ppm) diesel fuel. As a result of these measures, DPM concentrations have declined 68% since 2000, even though the state's population increased 31% and the amount of diesel vehicles miles traveled increased 81%, as

shown on Exhibit 2-B. With the implementation of these diesel-related control regulations, CARB expects a DPM decline of 71% for 2000-2020.

EXHIBIT 2-B: DPM AND DIESEL VEHICLE MILES TREND



Source: CARB

DIESEL REGULATIONS

The CARB and the Ports of Los Angeles and Long Beach (POLA and POLB) have adopted several iterations of regulations for diesel trucks that are aimed at reducing DPM. More specifically, the CARB Drayage Truck Regulation (32), the CARB statewide On-road Truck and Bus Regulation (33), and the Ports of Los Angeles and Long Beach "Clean Truck Program" (CTP) require accelerated implementation of "clean trucks" into the statewide truck fleet (34). In other words, older more polluting trucks will be replaced with newer, cleaner trucks as a function of these regulatory requirements.

Moreover, the average statewide DPM emissions for Heavy Duty Trucks (HDT), in terms of grams of DPM generated per mile traveled, will dramatically be reduced due to the aforementioned regulatory requirements.

Diesel emissions identified in this analysis would therefore overstate future DPM emissions since not all the regulatory requirements are reflected in the modeling.

CANCER RISK TRENDS

Based on information available from CARB, overall cancer risk throughout the SCAB has had a declining trend since 1990. In 1998, following an exhaustive 10-year scientific assessment process, CARB identified PM from diesel-fueled engines as a toxic air contaminant. The SCAQMD

initiated a comprehensive urban toxic air pollution study called the Multiple Air Toxics Exposure Study (MATES). DPM accounts for more than 70% of the cancer risk.

In 2008 the SCAQMD prepared an update to the MATES-II study, referred to as MATES-III. MATES-III estimates the average excess cancer risk level from exposure to TACs is an approximately 17% decrease in comparison to the MATES-II study.

In 2015, the SCAQMD published an in-depth analysis of the toxic air contaminants and the resulting health risks for all of Southern California. The *Multiple Air Toxics Exposure Study in the SCAB, MATES IV,"* which shows that cancer risk has decreased less than 50% since MATES III (2005) (35).

MATES-IV study represents the baseline health risk for a cumulative analysis. MATES-IV calculated cancer risks based on monitoring data collected at ten fixed sites within the SCAB. None of the fixed monitoring sites are within the local area of the Project site. However, MATES-IV has extrapolated the excess cancer risk levels throughout the SCAB by modeling the specific grids. MATES-IV modeling predicted an excess cancer risk of 743.21 in one million for the geographic grid containing the Project site. DPM is included in this cancer risk along with all other TAC sources. DPM accounts for 68% of the total risk shown in MATES-IV. Cumulative Project generated TACs are limited to DPM.

In January 2018, as part of the overall effort to reduce air toxics exposure in the SCAB, SCAQMD began conducting the MATES V Program. MATES V field measurements will be conducted over a one-year period at ten fixed sites (the same sites selected for MATES III and IV) to assess trends in air toxics levels. MATES V will also include measurements of ultrafine particles (UFP) and black carbon (BC) concentrations, which can be compared to the UFP levels measured in MATES IV (36). The final report for the MATES V study is currently expected to be available in Fall 2019, however no definitive date has been provided.

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3 PROJECT AIR QUALITY IMPACT

3.1 INTRODUCTION

The Project has been evaluated to determine if it will violate an air quality standard, contribute to an existing or projected air quality violation, or determine if it will result in a cumulatively considerable net increase of a criteria pollutant for which the SCAB is non-attainment under an applicable NAAQS and CAAQS. Additionally, the Project has been evaluated to determine consistency with the applicable air quality management plan, exposure of sensitive receptors to substantial pollutant concentrations, and the impacts of odors. The significance of these potential impacts is described in the following section.

3.2 STANDARDS OF SIGNIFICANCE

The criteria used to determine the significance of potential Project-related air quality impacts are taken from the Initial Study Checklist in Appendix G of the State CEQA Guidelines (14 CCR §§15000, et seq.). Based on these thresholds, a project would result in a significant impact related to air quality if it would (1):

- Conflict with or obstruct implementation of the applicable air quality plan.
- Result in a cumulatively considerable net increase of any criteria pollutant for which the project region is in non-attainment under an applicable federal or state ambient air quality standard.
- Expose sensitive receptors to substantial pollutant concentrations.
- Result in other emissions (such as those leading to odors) adversely affecting a substantial number of people.

The SCAQMD has also developed regional significance thresholds for other regulated pollutants, as summarized at Table 3-1 (37). The SCAQMD's CEQA Air Quality Significance Thresholds (April 2019) indicate that any projects in the SCAB with daily emissions that exceed any of the indicated thresholds should be considered as having an individually and cumulatively significant air quality impact.

TABLE 3-1: MAXIMUM DAILY REGIONAL EMISSIONS THRESHOLDS

Pollutant	Construction Regional Thresholds	Operational Regional Thresholds
NO_X	100 lbs/day	55 lbs/day
VOC	75 lbs/day	55 lbs/day
PM_{10}	150 lbs/day	150 lbs/day
$PM_{2.5}$	55 lbs/day	55 lbs/day
SO_X	150 lbs/day	150 lbs/day
CO	550 lbs/day	550 lbs/day
Pb	3 lbs/day	3 lbs/day

lbs/day = Pounds Per Day
Source: Regional Thresholds presented in this table are based on the SCAQMD Air Quality Significance Thresholds, April 2019

3.3 CALIFORNIA EMISSIONS ESTIMATOR MODEL™ EMPLOYED TO ANALYZE AIR QUALITY

Land uses such as the Project affect air quality through construction-source and operational-source emissions.

On October 17, 2017, the SCAQMD in conjunction with the California Air Pollution Control Officers Association (CAPCOA) and other California air districts, released the latest version of the CalEEMod Version 2016.3.2. The purpose of this model is to calculate construction-source and operational-source criteria pollutant (VOCs, NO_X, SO_X, CO, PM_{10}, and $PM_{2.5}$) and GHG emissions from direct and indirect sources; and quantify applicable air quality and GHG reductions achieved from MMs (38). Accordingly, the latest version of CalEEMod has been used for this Project to determine construction and operational air quality emissions. Output from the model runs for both construction and operational activity are provided in Appendices 3.1 through 3.4.

3.3.1 EMISSION FACTORS MODEL

On August 19, 2019, the EPA approved the 2017 version of the EMissions FACtor model (EMFAC) web database for use in SIP and transportation conformity analyses. EMFAC2017 is a mathematical model that was developed to calculate emission rates, fuel consumption, VMT from motor vehicles that operate on highways, freeways, and local roads in California and is commonly used by the CARB to project changes in future emissions from on-road mobile sources (39). This AQIA utilizes summer, winter, and annual EMFAC2017 emission factors in order to derive vehicle emissions associated with Project operational activities, which vary by season.

Because the EMFAC2017 emission rates are associated with vehicle fuel types while CalEEMod vehicle emission factors are aggregated to include all fuel types for each individual vehicle class, the EMFAC2017 emission rates for different fuel types of a vehicle class are averaged by activity or by population and activity to derive CalEEMod emission factors. The equations applied to obtain CalEEMod vehicle emission factors for each emission type are detailed in CalEEMod User's Guide *Appendix A: Calculation Details for CalEEMod* (40).

3.4 CONSTRUCTION EMISSIONS

Construction activities associated with the Project will result in emissions of VOCs, NO_X, SO_X, CO, PM_{10}, and $PM_{2.5}$. Construction related emissions are expected from the following construction activities:

- Demolition
- Site Preparation
- Grading
- Building Construction
- Paving
- Architectural Coating

Demolition

The Project site is currently occupied by the by existing structures and asphalt/concrete. The total demolished material includes approximately 16,136 sf of building.

Grading Activities

Dust is typically a major concern during grading activities. Because such emissions are not amenable to collection and discharge through a controlled source, they are called "fugitive emissions". Fugitive dust emissions rates vary as a function of many parameters (soil silt, soil moisture, wind speed, area disturbed, number of vehicles, depth of disturbance or excavation, etc.). CalEEMod was utilized to calculate fugitive dust emissions resulting from this phase of activity. Based on information provided by the Project applicant, earthwork activities are expected to balance on site and no import or export of soils would be required.

Construction Worker Vehicle Trips

Construction emissions for construction worker vehicles traveling to and from the Project site, as well as vendor trips (construction materials delivered to the Project site) were estimated based on information from CalEEMod defaults.

3.4.1 CONSTRUCTION DURATION

Construction is expected to commence in June 2021 and will last through June 2022. The construction schedule utilized in the analysis, shown in Table 3-2, represents a "worst-case" analysis scenario should construction occur any time after the respective dates since emission factors for construction decrease as time passes and the analysis year increases due to emission regulations becoming more stringent.[3] The duration of construction activity and associated equipment represents a reasonable approximation of the expected construction fleet as required per CEQA Guidelines (1). The duration of construction activity was based on information provided by the Project Applicant and the 2022 opening year.

3.4.2 CONSTRUCTION EQUIPMENT

Site specific construction fleet may vary due to specific project needs at the time of construction. The associated construction equipment was generally based on CalEEMod defaults. A detailed summary of construction equipment assumptions by phase is provided at Table 3-3.

[3] As shown in the CalEEMod User's Guide Version 2016.3.2, Section 4.3 "OFFROAD Equipment" as the analysis year increases, emission factors for the same equipment pieces decrease due to the natural turnover of older equipment being replaced by newer less polluting equipment and new regulatory requirements.

TABLE 3-2: CONSTRUCTION DURATION

Phase Name	Start Date	End Date	Days
Demolition	06/01/2021	07/12/2021	30
Site Preparation	07/13/2021	08/09/2021	20
Grading	08/10/2021	10/11/2021	45
Building Construction	10/12/2021	06/20/2022	180
Paving	05/03/2022	06/20/2022	35
Architectural Coating	03/15/2022	06/20/2022	70

Source: Construction activity based on the 2022 Opening Year.

TABLE 3-3: CONSTRUCTION EQUIPMENT ASSUMPTIONS

Activity	Equipment	Amount	Hours Per Day
Demolition	Concrete/Industrial Saws	1	8
	Excavators	3	8
	Rubber Tired Dozers	2	8
Site Preparation	Crawler Tractors	4	8
	Rubber Tired Dozers	3	8
Grading	Crawler Tractors	2	8
	Excavators	2	8
	Graders	1	8
	Rubber Tired Dozers	1	8
	Scrapers	2	8
Building Construction	Cranes	1	8
	Crawler Tractors	3	8
	Forklifts	3	8
	Generator Sets	1	8
	Welders	1	8
Paving	Pavers	2	8
	Paving Equipment	2	8
	Rollers	2	8
Architectural Coating	Air Compressors	1	8

Source: Construction equipment based on CalEEMod defaults.

3.4.3 CONSTRUCTION EMISSIONS SUMMARY

Impacts without Mitigation

CalEEMod calculates maximum daily emissions for summer and winter periods. The estimated maximum daily construction emissions without mitigation are summarized on Table 3-4. Detailed construction model outputs are presented in Appendix 3.1. Under the assumed scenarios, emissions resulting from the Project construction will not exceed criteria pollutant thresholds established by the SCAQMD for emissions of any criteria pollutant.

TABLE 3-4: OVERALL CONSTRUCTION EMISSIONS SUMMARY – WITHOUT MITIGATION

Year	Emissions (lbs/day)					
	VOC	**NO_X**	**CO**	**SO_X**	**PM_{10}**	**$PM_{2.5}$**
Summer						
2021	6.86	60.84	48.01	0.75	11.34	6.52
2022	62.09	66.84	67.33	0.21	11.99	4.58
Winter						
2021	6.90	60.85	44.17	0.17	11.34	6.52
2022	62.14	66.69	62.85	0.20	11.99	4.58
Maximum Daily Emissions	**62.14**	**66.84**	**67.33**	**0.75**	**11.99**	**6.52**
SCAQMD Regional Threshold	75	100	550	150	150	55
Threshold Exceeded?	**NO**	**NO**	**NO**	**NO**	**NO**	**NO**

Source: CalEEMod construction-source (unmitigated) emissions are presented in Appendix 3.1.

Impacts with Mitigation

Although mitigation is not needed to reduce estimated maximum daily construction regional emissions, MM AQ-1 would be required to decrease localized emissions (please refer to the subsequent discussions in Section 3.6, Localized Significance – Construction Activity). Detailed construction model outputs are presented in Appendix 3.2. Implementation of this localized emissions MM would further reduce already less-than-significant regional emissions as indicated at Table 3.5.

TABLE 3-5: OVERALL CONSTRUCTION EMISSIONS SUMMARY – WITH MITIGATION

Year	Emissions (lbs/day)					
	VOC	NO_X	CO	SO_X	PM_{10}	$PM_{2.5}$
Summer						
2021	6.39	54.77	50.31	0.18	10.56	5.84
2022	61.70	63.84	69.79	0.21	11.88	4.49
Winter						
2021	6.43	54.62	46.48	0.17	10.56	5.84
2022	61.75	63.69	65.31	0.20	11.88	4.49
Maximum Daily Emissions	**61.75**	**63.84**	**69.79**	**0.21**	**11.88**	**5.84**
SCAQMD Regional Threshold	75	100	550	150	150	55
Threshold Exceeded?	**NO**	**NO**	**NO**	**NO**	**NO**	**NO**

Source: CalEEMod construction-source (mitigated) emissions are presented in Appendix 3.2.

3.5 OPERATIONAL EMISSIONS

Operational activities associated with the Project will result in emissions of VOCs, NO_X, SO_X, CO, PM_{10}, and $PM_{2.5}$. Operational emissions would be expected from the following primary sources:

- Area Source Emissions
- Energy Source Emissions
- Mobile Source Emissions
- On-Site Cargo Handling Equipment Emissions

3.5.1 AREA SOURCE EMISSIONS

Architectural Coatings

Over a period of time the building that is part of this Project will be subject to emissions resulting from the evaporation of solvents contained in paints, varnishes, primers, and other surface coatings as part of Project maintenance. The emissions associated with architectural coatings were calculated using CalEEMod.

Consumer Products

Consumer products include, but are not limited to detergents, cleaning compounds, polishes, personal care products, and lawn and garden products. Many of these products contain organic compounds which when released in the atmosphere can react to form O_3 and other photochemically reactive pollutants. The emissions associated with use of consumer products were calculated based on defaults provided within CalEEMod.

Landscape Maintenance Equipment

Landscape maintenance equipment would generate emissions from fuel combustion and evaporation of unburned fuel. Equipment in this category would include lawnmowers, shedders/grinders, blowers, trimmers, chain saws, and hedge trimmers used to maintain the landscaping of the Project. The emissions associated with landscape maintenance equipment were calculated based on assumptions provided in CalEEMod.

3.5.2 ENERGY SOURCE EMISSIONS

Combustion Emissions Associated with Natural Gas and Electricity

Electricity and natural gas are used by almost every project. Criteria pollutant emissions are emitted through the generation of electricity and consumption of natural gas. However, because electrical generating facilities for the Project area are located either outside the region (state) or offset through the use of pollution credits (RECLAIM) for generation within the SCAB, criteria pollutant emissions from offsite generation of electricity is generally excluded from the evaluation of significance and only natural gas use is considered. The emissions associated with natural gas use were calculated using CalEEMod.

Title 24 Energy Efficiency Standards

California's Energy Efficiency Standards for Residential and Nonresidential Buildings was first adopted in 1978 in response to a legislative mandate to reduce California's energy consumption. The standards are updated periodically to allow consideration and possible incorporation of new energy efficient technologies and methods. Energy efficient buildings require less electricity. The 2019 version of Title 24 was adopted by the CEC and became effective on January 1, 2020.

3.5.3 MOBILE SOURCE EMISSIONS

Project mobile source air quality impacts are dependent on both overall daily vehicle trip generation and the effect of the Project on peak hour traffic volumes and traffic operations in the vicinity of the Project. The Project-related operational air quality impacts are derived primarily from vehicle trips generated by the Project. Trip characteristics available from the TIA were utilized in this analysis (5) and are based on trip generation rates collected by the Institute of Transportation Engineers (ITE) Trip Generation Manual, (10th Edition, 2017). (41) It should be noted that the TIA only reports weekday trip rates, therefore the weekend (Saturday and Sunday) trip rates are based on data published by ITE for weekend conditions.

3.5.3.1 Trip Lengths

Background

A technical deficiency inherent in calculating the projected vehicle emissions associated with any project is related to the estimation of trip length and VMT. VMT for a given project is calculated by the total number of vehicle trips to/from the Project are multiplied by the average trip length (42). This method of estimating VMT for use in calculating vehicle emissions likely results in the over-estimation and double-counting of emissions because, for a distribution warehouse center such as the Project, the land use is likely to attract (divert) existing vehicle trips that are already

on the circulation system as opposed to generating new trips. In this regard, the Project would, to a large extent, redistribute existing mobile-source emissions rather than generate additional emissions within the SCAB. As such, the estimation of the Fontana Foothill Commerce Center Project's vehicular-source emissions are likely overstated in that no credit for, or reduction in, emissions is assumed based on diversion of existing trips.

Approach for Analysis of the Project

Trip lengths for passenger cars and trucks were determined based on the regional traffic model. The San Bernardino Transportation Analysis Model (SBTAM) was used to estimate trip lengths for the Project's passenger cars and trucks.

More specifically, SBTAM was utilized to conduct select zone model runs for the proposed Project. SBTAM was prepared for the San Bernardino County Transportation Authority (formerly known as San Bernardino Association of Governments) as a sub-regional model based on Southern California Association of Governments (SCAG) model, which includes the entire SCAG region. Adjustments were made to the socio-economic data within the SBTAM (2040) traffic analysis zone (TAZ) where the Project is located to reflect the Project land use.

The VMT from/to the Project TAZ by vehicle type was calculated based on select zone model skims. The average trip length was calculated based on the model VMT and daily traffic flow by vehicle type. Based on the model runs, the average trip length for trucks was calculated to be 36 miles and the trip length for all other vehicles (passenger cars, small trucks, motorcycles, etc.) was calculated to be 14 miles.

The use of a travel demand model is supported by substantial evidence since the information contained in the model is specific to the region and for the land use type being proposed. Furthermore, the use of travel demand models is also a recommended practice that is being promoted by the Governor's Office of Planning and Research (OPR) in their updated CEQA Guidelines with respect to Senate Bill (SB) 743. Specifically, the latest technical advisory documentation published by OPR (December 2018 see Page 30-31) (43) explicitly states that:

> *"…agencies can use travel demand models or survey data to estimate existing trip lengths and input those into sketch models such as CalEEMod to achieve more accurate results. Whenever possible, agencies should input localized trip lengths into a sketch model to tailor the analysis to the project location."*

The procedure described by OPR in their SB 743 technical advisory is precisely the method that has been used to calculate trip lengths and consequently VMT for the Project.

3.5.3.2 Approach for Analysis of the Project

Two Separate model runs were utilized for each phase in order to more accurately model emissions resulting from passenger car and truck operations.

Passenger Cars

The first run analyzed passenger car emissions, incorporated the SBTAM trip length of 14 miles for passenger cars and an assumption of 100% primary trips. It should be noted that though the

TIA does not breakdown passenger cars by type, this analysis assumes that passenger cars include Light-Duty-Auto vehicles (LDA), Light-Duty-Trucks (LDT1[4] & LDT2[5]), and Medium-Duty-Vehicles (MDV) vehicle types. In order to account for emissions generated by passenger cars, the fleet mix presented in Table 3-6 was utilized in this analysis.

TABLE 3-6: PASSENGER CAR FLEET MIX

Land Use	Vehicle Type	%
High-Cube Short-Term Warehouse without Cold Storage	LDA	62.42
	LDT1	4.11
	LDT2	20.35
	MDV	13.12

Note: The Project-specific passenger car fleet mix used in this analysis is based on a proportional split utilizing the default CalEEMod percentages assigned to LDA, LDT1, LDT2, and MDV vehicles types.

Trucks

The second run analyzed truck emissions, incorporated the weighted truck trip length of 36 miles and an assumption of 100% primary trips. For purposes of analysis, the truck trip length is based on the SBTAM average trip lengths of Light-Heavy-Duty Trucks (LHDT), Medium-Heavy-Duty Trucks (MHDT), and Heavy-Heavy-Duty Trucks (HHDT). In order to be consistent with the TIA, trucks are broken down by truck type: 2-axle (LHDT), 3-axle (MHDT), and 4+-axle (HHDT). In order to account for emissions generated by trucks, the fleet mix presented in Table 3-7 was utilized in this analysis.

TABLE 3-7: TRUCK FLEET MIX

Land Use	Vehicle Type	%
High-Cube Short-Term Warehouse without Cold Storage	LHDT	16.72
	MHDT	20.72
	HHDT	62.56

Note: Project-specific truck fleet mix is based on the number of trips generated by each truck type (LHDT, MHDT, and HHDT) relative to the total number of truck trips.

Fugitive Dust Related to Vehicular Travel

Vehicles traveling on paved roads would be a source of fugitive emissions due to the generation of road dust inclusive of break and tire wear particulates. The emissions estimates for travel on paved roads were calculated using CalEEMod.

[4] Vehicles under the LDT1 category have a gross vehicle weight rating (GVWR) of less than 6,000 lbs. and equivalent test weight (ETW) of less than or equal to 3,750 lbs.

[5] Vehicles under the LDT2 category have a GVWR of less than 6,000 lbs. and ETW between 3,751 lbs. and 5,750 lbs.

3.5.4 ON-SITE CARGO HANDLING EQUIPMENT EMISSIONS

It is common for industrial warehouse buildings to require cargo handling equipment to move empty containers and empty chassis to and from the various pieces of cargo handling equipment that receive and distribute containers. The most common type of cargo handling equipment is the yard truck which is designed for moving cargo containers. Yard trucks are also known as yard goats, utility tractors (UTRs), hustlers, yard hostlers, and yard tractors. The cargo handling equipment is assumed to have a horsepower range of approximately 175 hp to 200 hp. Based on the latest available information from SCAQMD (44); for example, high-cube warehouse projects typically have 3.6 yard trucks per million sf of building space. For this particular Project, based on the maximum square footage of each building space, on-site modeled operational equipment includes up to three (3) 200 hp, compressed natural gas or gasoline-powered yard tractors operating at 4 hours a day for 365 days of the year.

3.5.5 OPERATIONAL EMISSIONS SUMMARY

As previously stated, CalEEMod utilizes summer and winter EMFAC2017 emission factors in order to derive vehicle emissions associated with Project operational activities, which vary by season. As such, operational activities for summer and winter scenarios are presented in Table 3-8. Detailed construction model outputs are presented in Appendices 3.3 and 3.4. As shown in Table 3-8, the Project would exceed the numerical thresholds of significance established by the SCAQMD for emissions of NO_X. It should be noted that the majority of the Project's NO_X emissions are derived from vehicle usage. Since neither the Project Applicant nor the City have regulatory authority to control tailpipe emissions, no feasible mitigation measures exist that would reduce these emissions to levels that are less-than-significant.

TABLE 3-8: SUMMARY OF PEAK OPERATIONAL EMISSIONS (1 OF 2)

Operational Activities – Summer Scenario	Emissions (lbs/day)					
	VOC	NO_X	CO	SO_X	PM_{10}	$PM_{2.5}$
Area Source	17.18	1.59E-03	0.17	1.00E-05	6.20E-04	6.20E-04
Energy Source	0.03	0.29	0.24	1.74E-03	0.02	0.02
Mobile Source (Passenger Cars)	1.98	1.45	25.07	0.07	7.65	2.05
Mobile Source (Trucks)	1.96	73.95	17.06	0.30	11.77	3.84
On-Site Equipment Source	0.37	3.80	2.28	0.01	0.13	0.12
Total Maximum Daily Emissions	**21.52**	**79.49**	**44.82**	**0.39**	**19.57**	**6.04**
SCAQMD Regional Threshold	55	55	550	150	150	55
Threshold Exceeded?	**NO**	**YES**	**NO**	**NO**	**NO**	**NO**

TABLE 3-8: SUMMARY OF PEAK OPERATIONAL EMISSIONS (2 OF 2)

Operational Activities – Winter Scenario	Emissions (lbs/day)					
	VOC	NO_X	CO	SO_X	PM_{10}	$PM_{2.5}$
Area Source	17.18	1.59E-03	0.17	1.00E-05	6.20E-04	6.20E-04
Energy Source	0.03	0.29	0.24	1.74E-03	0.02	0.02
Mobile Source (Passenger Cars)	1.81	1.52	20.74	0.06	7.65	2.05
Mobile Source (Trucks)	1.86	76.33	14.61	0.30	11.75	3.84
On-Site Equipment Source	0.37	3.80	2.28	0.01	0.13	0.12
Total Maximum Daily Emissions	**21.24**	**81.94**	**38.04**	**0.38**	**19.56**	**6.03**
SCAQMD Regional Threshold	55	55	550	150	150	55
Threshold Exceeded?	**NO**	**YES**	**NO**	**NO**	**NO**	**NO**

Source: CalEEMod operational-source emissions are presented in Appendices 3.3 and 3.4.

3.6 LOCALIZED SIGNIFICANCE - CONSTRUCTION ACTIVITY

BACKGROUND ON LOCALIZED SIGNIFICANCE THRESHOLD (LST) DEVELOPMENT

The analysis makes use of methodology included in the SCAQMD *Final Localized Significance Threshold Methodology* (LST Methodology) (45). The SCAQMD has established that impacts to air quality are significant if there is a potential to contribute or cause localized exceedances of the federal and/or state ambient air quality standards (NAAQS/CAAQS). Collectively, these are referred to as Localized Significance Thresholds (LSTs).

The SCAQMD established LSTs in response to the SCAQMD Governing Board's Environmental Justice Initiative I-4[6]. LSTs represent the maximum emissions from a project that will not cause or contribute to an exceedance of the most stringent applicable federal or state ambient air quality standard at the nearest residence or sensitive receptor. The SCAQMD states that lead agencies can use the LSTs as another indicator of significance in its air quality impact analyses.

LSTs were developed in response to environmental justice and health concerns raised by the public regarding exposure of individuals to criteria pollutants in local communities. To address the issue of localized significance, the SCAQMD adopted LSTs that show whether a project would cause or contribute to localized air quality impacts and thereby cause or contribute to potential localized adverse health effects. The analysis makes use of methodology included in the LST Methodology (46).

[6] The purpose of SCAQMD's Environmental Justice program is to ensure that everyone has the right to equal protection from air pollution and fair access to the decision-making process that works to improve the quality of air within their communities. Further, the SCAQMD defines Environmental Justice as "…equitable environmental policymaking and enforcement to protect the health of all residents, regardless of age, culture, ethnicity, gender, race, socioeconomic status, or geographic location, from the health effects of air pollution."

APPLICABILITY OF LSTS FOR THE PROJECT

For this Project, the appropriate SRA for the LST analysis is the SCAQMD Central San Bernardino Valley (SRA 34). LSTs apply to CO, NO_2, PM_{10}, and $PM_{2.5}$. The SCAQMD produced look-up tables for projects less than or equal to 5 acres in size.

In order to determine the appropriate methodology for determining localized impacts that could occur as a result of Project-related construction, the following process is undertaken:

- CalEEMod is utilized to determine the maximum daily on-site emissions that will occur during construction activity.
- The SCAQMD's *Fact Sheet for Applying CalEEMod to Localized Significance Thresholds* and CalEEMod User's Guide *Appendix A: Calculation Details for CalEEMod* is used to determine the maximum site acreage that is actively disturbed based on the construction equipment fleet and equipment hours as estimated in CalEEMod (47) (40).
- If the total acreage disturbed is less than or equal to five acres per day, then the SCAQMD's screening look-up tables are utilized to determine if a Project has the potential to result in a significant impact. The look-up tables establish a maximum daily emissions threshold in lbs/day that can be compared to CalEEMod outputs.
- If the total acreage disturbed is greater than five acres per day, then LST impacts are appropriately evaluated through dispersion modeling.
- The LST methodology presents mass emission rates for each SRA, project sizes of 1, 2, and 5 acres, and nearest receptor distances of 25, 50, 100, 200, and 500 meters. For project sizes between the values given, or with receptors at distances between the given receptors, the methodology uses linear interpolation to determine the thresholds.

EMISSIONS CONSIDERED

SCAQMD's LST Methodology clearly states that "off-site mobile emissions from the Project should not be included in the emissions compared to LSTs (45)." Therefore, for purposes of the construction LST analysis, only emissions included in the CalEEMod "on-site" emissions outputs were considered.

MAXIMUM DAILY DISTURBED-ACREAGE

The "acres disturbed" for analytical purposes are based on specific equipment type for each subcategory of construction activity and the estimated maximum area a given piece of equipment can pass over in an 8-hour workday (as shown on Table 3-9). The equipment-specific grading rates are summarized in the SCAQMD's *Fact Sheet for Applying CalEEMod to Localized Significance Thresholds* and CalEEMod User's Guide *Appendix A: Calculation Details for CalEEMod* (47) (40). It should be noted that the disturbed area per day is representative of a piece of equipment making multiple passes over the same land area. In other words, one Rubber Tired Dozer can make multiple passes over the same land area totaling 0.5 acres in a given 8-hour day.

As shown on Table 3-9, the proposed Project's construction activities could actively disturb approximately 1.0 acre per day during demolition, 3.5 acres per day during site preparation, and 4.0 acres per day for grading activities.

TABLE 3-9: MAXIMUM DAILY DISTURBED-ACREAGE

Construction Phase	Equipment Type	Equipment Quantity	Acres graded per 8-hour day	Operating Hours per Day	Acres graded per day
Demolition	Rubber Tired Dozers	2	0.5	8	1.0
Total acres disturbed per day during Demolition					1.0
Site Preparation	Crawler Tractors	4	0.5	8	2.0
	Rubber Tired Dozers	3	0.5	8	1.5
Total acres disturbed per day during Site Preparation					3.5
Grading	Crawler Tractors	2	0.5	8	1.0
	Graders	1	0.5	8	0.5
	Rubber Tired Dozers	1	0.5	8	0.5
	Scrapers	2	0.5	8	1.0
Total acres disturbed per day during Grading					4.0

Source: Maximum daily disturbed acreage based on equipment list presented in Appendix 3.1

SENSITIVE RECEPTORS

As previously stated, LSTs represent the maximum emissions from a project that will not cause or contribute to an exceedance of the most stringent applicable NAAQS and CAAQS at the nearest residence or sensitive receptor. Receptor locations are off-site locations where individuals may be exposed to emissions from Project activities.

Some people are especially sensitive to air pollution and are given special consideration when evaluating air quality impacts from projects. These groups of people include children, the elderly, individuals with pre-existing respiratory or cardiovascular illness, and athletes and others who engage in frequent exercise. Structures that house these persons or places where they gather to exercise are defined as "sensitive receptors". These structures typically include residences, hotels, hospitals, etc. as they are also known to be locations where an individual can remain for 24 hours. Consistent with the LST Methodology, the nearest land use where an individual could remain for 24 hours to the Project site (in this case the nearest residential land use) has been used to determine construction and operational air quality impacts for emissions of PM_{10} and $PM_{2.5}$, since PM_{10} and $PM_{2.5}$ thresholds are based on a 24 hour averaging time.

Commercial and industrial facilities are not included in the definition of sensitive receptor because employees and patrons do not typically remain onsite for a full 24 hours but are typically onsite for eight hours or less. The LST Methodology explicitly states that "*LSTs based on shorter averaging periods, such as the NO_2 and CO LSTs, could also be applied to receptors such as industrial or commercial facilities since it is reasonable to assume that a worker at these sites could be present for periods of one to eight hours* (45)." For purposes of analysis, if an industrial/commercial use is located at a closer distance to the Project site than the nearest residential use, the nearest industrial/commercial use will be utilized to determine construction

and operational LST air impacts for emissions of NO_2 and CO an individual could be present at these sites for periods of one to eight hours.

Project-related Sensitive Receptors

Receptors in the Project study area are described below and shown on Exhibit 3-A. Localized air quality impacts were evaluated at sensitive receptor land uses nearest the Project site. All distances are measured from the Project site boundary to the outdoor living areas (e.g., backyards) or at the building façade, whichever is closer to the Project site. The selection of receptor locations is based on Federal Highway Administration (FHWA) guidelines and is consistent with additional guidance provided by Caltrans and the Federal Transit Administration (FTA).

R1: Located approximately 734 feet north of the Project site boundaries, R1 represents the existing residential homes, north of Santa Ana Avenue.

R2: Location R2 represents the existing residential community east of Sierra Avenue roughly 842 feet east of the Project site.

R3: Location R3 represents an existing residence at 11216 Avenue situated approximately 15 feet east of the Project site.

R4: Location R4 represents the existing residential community south of Jurupa Avenue roughly 134 feet south of the Project site.

R5: Location R5 represents the St. Mary's Catholic Church located 756 feet of the Project site.

R6: Location R6 represents an existing residential home situated approximately 86 feet west of the Project site.

The SCAQMD recommends that the nearest sensitive receptor be considered when determining the Project's potential to cause an individual and cumulatively significant impact. As such, the nearest receptor to evaluate localized impacts of PM_{10}, $PM_{2.5}$, NO_2, and CO, is the existing residential home, represented by location R3, which is located approximately 15 feet / 5 meters east of the Project. It should be noted that the LST Methodology explicitly states that "*It is possible that a project may have receptors closer than 25 meters. Projects with boundaries located closer than 25 meters to the nearest receptor should use the LSTs for receptors located at 25 meters* (45)." As such a 25-meter receptor distance will be used for evaluation of localized NO_2, CO, PM_{10} and PM_{25} impacts.

EXHIBIT 3-A: SENSITIVE RECEPTOR LOCATIONS



LOCALIZED THRESHOLDS FOR CONSTRUCTION ACTIVITY

Since the total acreage disturbed is less than five acres per day for demolition, site preparation, and grading activities, the SCAQMD's screening look-up tables are utilized in determining impacts. It should be noted that since the look-up tables identifies thresholds at only 1 acre, 2 acres, and 5 acres, linear regression has been utilized to determine localized significance thresholds. Consistent with SCAQMD guidance, the thresholds presented in Table 3-10 were calculated by interpolating the threshold values for the Project's disturbed acreage.

TABLE 3-10: MAXIMUM DAILY LOCALIZED CONSTRUCTION EMISSIONS THRESHOLDS

Pollutant	Construction Localized Thresholds
NO_X	118 lbs/day (Demolition)
	220 lbs/day (Site Preparation)
	237 lbs/day (Grading)
CO	667 lbs/day (Demolition)
	1,359 lbs/day (Site Preparation)
	1,488 lbs/day (Grading)
PM_{10}	4 lbs/day (Demolition)
	11 lbs/day (Site Preparation)
	7 lbs/day (Grading)
$PM_{2.5}$	3 lbs/day (Demolition)
	6 lbs/day (Site Preparation)
	7 lbs/day (Grading)

Source: Localized Thresholds presented in this table are based on the SCAQMD Final Localized Significance Threshold Methodology, July 2008

CONSTRUCTION-SOURCE EMISSIONS LST ANALYSIS

Impacts without Mitigation

Table 3-11 identifies the localized impacts at the nearest receptor location in the vicinity of the Project. As previously stated, the nearest receptor utilized to evaluate localized construction emissions of PM_{10}, $PM_{2.5}$, NO_2, and CO, is the existing residential home, represented by location R3, which is located approximately 45 feet/14 meters northeast of the Project. For purposes of analysis, and for consistency with the LST Methodology, a 25-meter receptor distance will be used. Outputs from the model runs for construction LSTs are provided in Appendix 3.1. As shown, without mitigation, localized construction emissions would exceed the applicable SCAQMD LSTs for emissions of PM_{10} and $PM_{2.5}$ during site preparation activities.

TABLE 3-11: LOCALIZED SIGNIFICANCE SUMMARY OF CONSTRUCTION – WITHOUT MITIGATION

On-Site Demolition Emissions	Emissions (lbs/day)			
	NO_X	CO	PM_{10}	$PM_{2.5}$
Maximum Daily Emissions	**31.44**	**21.57**	**1.76**	**1.47**
SCAQMD Localized Threshold	118	667	4	3
Threshold Exceeded?	**NO**	**NO**	**NO**	**NO**
On-Site Site Preparation Emissions	**Emissions (lbs/day)**			
	NO_X	CO	PM_{10}	$PM_{2.5}$
Maximum Daily Emissions	**60.79**	**21.85**	**11.14**	**6.46**
SCAQMD Localized Threshold	220	1,359	11	6
Threshold Exceeded?	**NO**	**NO**	**YES**	**YES**
On-Site Grading Emissions	**Emissions (lbs/day)**			
	NO_X	CO	PM_{10}	$PM_{2.5}$
Maximum Daily Emissions	**56.54**	**31.23**	**1.47**	**3.57**
SCAQMD Localized Threshold	237	1,488	12	7
Threshold Exceeded?	**NO**	**NO**	**NO**	**NO**

Source: CalEEMod localized construction-source (unmitigated) emissions are presented in Appendix 3.1.

Impacts with Mitigation

Table 3-12 identifies the localized impacts at the nearest receptor location in the vicinity of the Project. MM AQ-1 is recommended to reduce the impacts during site preparation. After implementation of MM AQ-1, construction emissions would not exceed the applicable SCAQMD LSTs for any criteria pollutant. As stated in Section ES.3, MM AQ-1 requires that during the site preparation phase, construction equipment greater than 150 hp, the Construction Contractor shall ensure that off-road diesel construction equipment that complies with EPA/CARB Tier 3 emissions standards and shall ensure that all construction equipment is tuned and maintained in accordance with the manufacturer's specifications. Therefore, a less than significant impact would occur. It should be noted that as this MM is not applicable to demolition or grading activities, demolition and grading emissions are omitted from the "Impacts with Mitigation" results.

TABLE 3-12: LOCALIZED SIGNIFICANCE SUMMARY OF CONSTRUCTION – WITH MITIGATION

On-Site Site Preparation Emissions	Emissions (lbs/day)			
	NO_X	CO	PM_{10}	$PM_{2.5}$
Maximum Daily Emissions	**44.69**	**25.66**	**10.36**	**5.78**
SCAQMD Localized Threshold	220	1,359	11	6
Threshold Exceeded?	**NO**	**NO**	**NO**	**NO**

Source: CalEEMod localized construction-source (mitigated) emissions are presented in Appendix 3.2.

3.7 LOCALIZED SIGNIFICANCE – LONG-TERM OPERATIONAL ACTIVITY

The Project is located on 33.62 acres. As noted previously, the LST Methodology provides look-up tables for sites with an area with daily disturbance of 5 acres or less. For projects that exceed 5 acres, the 5-acre LST look-up tables can be used as a screening tool to determine which pollutants require additional detailed analysis. This approach is conservative as it assumes that all on-site emissions associated with the project would occur within a concentrated 5-acre area. This screening method would therefore over-predict potential localized impacts, because by assuming that on-site operational activities are occurring over a smaller area, the resulting concentrations of air pollutants are more highly concentrated once they reach the smaller site boundary than they would be for activities if they were spread out over a larger surface area. On a larger site, the same amount of air pollutants generated would disperse over a larger surface area and would result in a lower concentration once emissions reach the project-site boundary. As such, LSTs for a 5-acre site during operations are used as a screening tool to determine if further detailed analysis is required.

LOCALIZED THRESHOLDS FOR OPERATIONAL ACTIVITY

As previously stated, LSTs for a 5-acre site during operations are used as a screening tool to determine if further detailed analysis is required. As such, the threshold values presented in Table 3-13, are from the look-up tables at 5 acres with a 25-meter receptor distance for NO_X, CO, PM_{10}, and $PM_{2.5}$.

TABLE 3-13: MAXIMUM DAILY LOCALIZED OPERATIONAL EMISSIONS THRESHOLDS

Pollutant	Operational Localized Thresholds
NO_X	270 lbs/day
CO	1,746 lbs/day
PM_{10}	4 lbs/day
$PM_{2.5}$	2 lbs/day

Source: Localized Thresholds presented in this table are based on the SCAQMD Final Localized Significance Threshold Methodology, July 2008

OPERATIONAL-SOURCE EMISSIONS LST ANALYSIS

The LST analysis generally includes on-site sources (area, energy, mobile, and on-site cargo handling equipment – are previously discussed in Section 3.5 of this report). However, it should be noted that the CalEEMod outputs do not separate on-site and off-site emissions from mobile sources. As such, in an effort to establish a maximum potential impact scenario for analytic purposes, the emissions shown on Table 3-14 represent all on-site Project-related stationary (area) sources and 5% of the Project-related mobile sources. Considering that the trip length used in CalEEMod for the Project is approximately 14.0 miles for passenger cars and 36.0 miles for all trucks, 5% of this total would represent an on-site travel distance of approximately 0.70 mile/3,696 feet for passenger cars and 1.80 mile/9,504 feet for trucks. It should be noted that the longest on-site distance is roughly 0.50 miles for both trucks and passenger cars. As such, the

5% assumption is conservative and would tend to overstate the actual impact because it is not likely that a passenger car would drive 0.70 mile on the site or that a truck would drive 1.80 mile on the site. Modeling based on these assumptions demonstrates that even within broad encompassing parameters, Project operational-source emissions would not exceed applicable LSTs.

Impacts without Mitigation

As shown on Table 3-14 operational emissions will not exceed the LST thresholds for the nearest sensitive receptor. Therefore, the Project will have a less than significant localized impact during operational activity.

TABLE 3-14: LOCALIZED SIGNIFICANCE SUMMARY OF OPERATIONS

Operational Activity	Emissions (lbs/day)			
	NO_X	CO	PM_{10}	$PM_{2.5}$
Maximum Daily Emissions	**7.99**	**4.80**	**1.13**	**0.44**
SCAQMD Localized Threshold	270	1,746	4	2
Threshold Exceeded?	**NO**	**NO**	**NO**	**NO**

Source: CalEEMod localized operational-source emissions are presented in Appendices 3.3 and 3.4

3.8 CO "HOT SPOT" ANALYSIS

As discussed below, the Project would not result in potentially adverse CO concentrations or "hot spots." Further, detailed modeling of Project-specific CO "hot spots" is not needed to reach this conclusion. An adverse CO concentration, known as a "hot spot", would occur if an exceedance of the state one-hour standard of 20 ppm or the eight-hour standard of 9 ppm were to occur. At the time of the 1993 Handbook, the SCAB was designated nonattainment under the CAAQS and NAAQS for CO (48).

It has long been recognized that CO hotspots are caused by vehicular emissions, primarily when idling at congested intersections. In response, vehicle emissions standards have become increasingly stringent in the last twenty years. Currently, the allowable CO emissions standard in California is a maximum of 3.4 grams/mile for passenger cars (there are requirements for certain vehicles that are more stringent). With the turnover of older vehicles, introduction of cleaner fuels, and implementation of increasingly sophisticated and efficient emissions control technologies, CO concentration in the SCAB is now designated as attainment, as previously noted in Table 2-3.

To establish a more accurate record of baseline CO concentrations affecting the SCAB, a CO "hot spot" analysis was conducted in 2003 for four busy intersections in Los Angeles at the peak morning and afternoon time periods. This "hot spot" analysis did not predict any violation of CO standards, as shown on Table 3-15.

TABLE 3-15: CO MODEL RESULTS

Intersection Location	CO Concentrations (ppm)		
	Morning 1-hour	Afternoon 1-hour	8-hour
Wilshire/Veteran	4.6	3.5	3.7
Sunset/Highland	4	4.5	3.5
La Cienega/Century	3.7	3.1	5.2
Long Beach/Imperial	3	3.1	8.4

Source: 2003 AQMP, Appendix V: Modeling and Attainment Demonstrations
Notes: Federal 1-hour standard is 35 ppm and the deferral 8-hour standard is 9.0 ppm.

Based on the SCAQMD's 2003 AQMP and the 1992 Federal Attainment Plan for Carbon Monoxide (1992 CO Plan), peak CO concentrations in the SCAB were a result of unusual meteorological and topographical conditions and not a result of traffic volumes and congestion at a particular intersection. As evidence of this, for example, 9.3 ppm 8-hour CO concentration measured at the Long Beach Boulevard and Imperial Highway intersection (highest CO generating intersection within the "hot spot" analysis), only 0.7 ppm was attributable to the traffic volumes and congestion at this intersection; the remaining 8.6 ppm were due to the ambient air measurements at the time the 2003 AQMP was prepared (49). In contrast, the ambient 8-hour CO concentration within the Project study area is estimated at 1.4 ppm—1.6 ppm (please refer to previous Table 2-3). Therefore, even if the traffic volumes for the Project were double or even triple of the traffic volumes generated at the Long Beach Boulevard and Imperial Highway intersection, coupled with the on-going improvements in ambient air quality, the Project would not be capable of resulting in a CO "hot spot" at any study area intersections.

Similar considerations are also employed by other Air Districts when evaluating potential CO concentration impacts. More specifically, the Bay Area Air Quality Management District (BAAQMD) concludes that under existing and future vehicle emission rates, a given project would have to increase traffic volumes at a single intersection by more than 44,000 vehicles per hour(vph) —or 24,000 vph where vertical and/or horizontal air does not mix—in order to generate a significant CO impact (50).

Traffic volumes generating the CO concentrations for the "hot spot" analysis is shown on Table 3-16. The busiest intersection evaluated was that at Wilshire Boulevard and Veteran Avenue, which has a daily traffic volume of approximately 100,000 vehicles per day and AM/PM traffic volumes of 8,062 vph and 7,719 vph respectively (51). The 2003 AQMP estimated that the 1-hour concentration for this intersection was 4.6 ppm; this indicates that, should the daily traffic volume increase four times to 400,000 vehicles per day, CO concentrations (4.6 ppm x 4= 18.4 ppm) would still not likely exceed the most stringent 1-hour CO standard (20.0 ppm).[7] At buildout of the Project, as shown on Exhibit 6-2, Opening Year Cumulative (2022) With Project Traffic Volumes (In PCE), of the TIA, the highest average daily trips on a segment of road would be 39,200 daily trips on south Sierra Avenue and Santa Ana Avenue, which is lower than the highest daily

7 Based on the ratio of the CO standard (20.0 ppm) and the modeled value (4.6 ppm).

traffic volumes at Wilshire Boulevard and Veteran Avenue of 100,000 vph (5). Additionally, the 2003 AQMP determined that the highest traffic volumes on a segment of road is 8,674 vph on La Cienega Boulevard and Century Boulevard. As shown on Table 3-17, the highest trips on a segment of road for the Project is 4,535 vph on Sierra Avenue and Santa Ana Avenue. As such, Project-related traffic volumes are less than the traffic volumes identified in the 2003 AQMP. The Project considered herein would not produce the volume of traffic required to generate a CO "hot spot" either in the context of the 2003 Los Angeles hot spot study or based on representative BAAQMD CO threshold considerations. Therefore, CO "hot spots" are not an environmental impact of concern for the Project. Localized air quality impacts related to mobile-source emissions would therefore be less than significant.

TABLE 3-16: TRAFFIC VOLUMES

Intersection Location	Peak Traffic Volumes (vph)				
	Eastbound (AM/PM)	Westbound (AM/PM)	Southbound (AM/PM)	Northbound (AM/PM)	Total (AM/PM)
Wilshire/Veteran	4,954/2,069	1,830/3,317	721/1,400	560/933	8,062/7,719
Sunset/Highland	1,417/1,764	1,342/1,540	2,304/1,832	1,551/2,238	6,614/5,374
La Cienega/Century	2,540/2,243	1,890/2,728	1,384/2,029	821/1,674	6,634/8,674
Long Beach/Imperial	1,217/2,020	1,760/1,400	479/944	756/1,150	4,212/5,514

vph = Vehicles Per Hour
Source: 2003 AQMP

TABLE 3-17: OPENING YEAR CUMULATIVE (2022) WITH PROJECT TRAFFIC VOLUMES

Intersection Location	Peak Traffic Volumes (vph)				
	Northbound (AM/PM)	Southbound (AM/PM)	Eastbound (AM/PM)	Westbound (AM/PM)	Total (AM/PM)
Citrus Avenue/Jurupa Avenue	481/268	436/458	1,012/1,428	841/1,024	2,770/3,179
Cypress Avenue/Jurupa Avenue	239/139	174/330	762/1,252	862/940	2,036/2,661
Sierra Avenue/Santa Ana Avenue	1,453/1,911	1,233/1,631	334/655	306/338	3,326/4,535
Sierra Avenue/Jurupa Avenue	1,143/1,463	823/1,161	755/1,231	574/562	3,295/4,418

Source: *Fontana Foothill Commerce Center Traffic Impact Analysis* (Urban Crossroads, 2020).

3.9 AIR QUALITY MANAGEMENT PLANNING

The Project site is located within the SCAB, which is characterized by relatively poor air quality. The SCAQMD has jurisdiction over an approximately 10,743 square-mile area consisting of the four-county basin and the Los Angeles County and Riverside County portions of what use to be referred to as the Southeast Desert Air Basin. In these areas, the SCAQMD is principally responsible for air pollution control, and works directly with the SCAG, county transportation commissions, local governments, as well as state and federal agencies to reduce emissions from stationary, mobile, and indirect sources to meet state and federal ambient air quality standards.

Currently, these state and federal air quality standards are exceeded in most parts of the SCAB. In response, the SCAQMD has adopted a series of AQMPs to meet the state and federal ambient air quality standards. AQMPs are updated regularly in order to more effectively reduce emissions, accommodate growth, and to minimize any negative fiscal impacts of air pollution control on the economy.

In March 2017, the Air Quality Management District (AQMD) released the Final 2016 AQMP. The 2016 AQMP continues to evaluate current integrated strategies and control measures to meet the NAAQS, as well as, explore new and innovative methods to reach its goals. Some of these approaches include utilizing incentive programs, recognizing existing co-benefit programs from other sectors, and developing a strategy with fair-share reductions at the federal, state, and local levels (52). Similar to the 2012 AQMP, the 2016 AQMP incorporates scientific and technological information and planning assumptions, including the 2016 RTP/SCS, a planning document that supports the integration of land use and transportation to help the region meet the federal CAA requirements (28). The Project's consistency with the AQMP will be determined using the 2016 AQMP as discussed below.

Criteria for determining consistency with the AQMP are defined in Chapter 12, Section 12.2 and Section 12.3 of the 1993 Handbook (53). These indicators are discussed below:

Consistency Criterion No. 1: The proposed Project will not result in an increase in the frequency or severity of existing air quality violations or cause or contribute to new violations or delay the timely attainment of air quality standards or the interim emissions reductions specified in the AQMP.

The violations that Consistency Criterion No. 1 refers to are the CAAQS and NAAQS. CAAQS and NAAQS violations would occur if regional or localized significance thresholds were exceeded.

Construction Impacts – Consistency Criterion 1

Consistency Criterion No. 1 refers to violations of the CAAQS and NAAQS. CAAQS and NAAQS violations would occur if LSTs or regional significance thresholds were exceeded. As evaluated, the Project's regional and localized construction-source emissions would not exceed applicable regional significance threshold and LST thresholds after implementation of MM AQ-1. As such, a less than significant impact is expected.

Operational Impacts – Consistency Criterion 1

As evaluated, the Project's regional and localized operational-source emissions will not exceed the LSTs but would exceed the applicable regional significance thresholds for emissions of NO_X. As such, the Project would have the potential to conflict with the AQMP.

On the basis of the preceding discussion, the Project is determined to inconsistent with the first criterion.

Consistency Criterion No. 2: The Project will not exceed the assumptions in the AQMP based on the years of Project build-out phase.

The 2016 AQMP demonstrates that the applicable ambient air quality standards can be achieved within the timeframes required under federal law. Growth projections from local general plans adopted by cities in the district are provided to the SCAG, which develops regional growth forecasts, which are then used to develop future air quality forecasts for the AQMP. Development consistent with the growth projections in City of Fontana General Plan is considered to be consistent with the AQMP.

Construction Impacts – Consistency Criterion 2

Peak day emissions generated by construction activities are largely independent of land use assignments, but rather are a function of development scope and maximum area of disturbance. Irrespective of the site's land use designation, development of the site to its maximum potential would likely occur, with disturbance of the entire site occurring during construction activities.

Operational Impacts – Consistency Criterion 2

The City General Plan designates the Project site as R-PC and WMXU-1. The R-PC land use category is used for master-planned communities with specific plans and requires a minimum of 145 acres or minimum 10,000sf lots. The WMXU-1 designation is intended to provide an alternative to conventional subdivision development with a mixture of housing types, neighborhood-serving retail, open space and civic uses, and site design that provides for multi-modal connectivity internal to the site and external to connect with adjacent areas (54) (55). The Project proposes the development of 758,020 sf of warehouse/distribution center use across two buildings. The proposed Project is inconsistent with the zoning designations of the General Plan. As such, the Project would require a general plan amendment and zoning amendment and has the potential to to conflict with the AQMP.

On the basis of the preceding discussion, the Project is determined to be inconsistent with the second criterion.

AQMP Consistency Conclusion

The Project would have the potential to cause NAAQS or CAAQS violations. The Project would be inconsistent with the current general plan designation. The Project would require a General Plan Amendment (GPA) to industrial warehousing, the GPA is not included in the current AQMP. Therefore, the Project would have the potential to conflict with the AQMP.

3.10 POTENTIAL IMPACTS TO SENSITIVE RECEPTORS

The potential impact of Project-generated air pollutant emissions at sensitive receptors has also been considered. Sensitive receptors can include uses such as long-term health care facilities, rehabilitation centers, and retirement homes. Residences, schools, playgrounds, childcare centers, and athletic facilities can also be considered as sensitive receptors.

The proposed Project would not result in a CO "hotspot" as a result of Project related traffic during ongoing operations, nor would the Project result in a significant adverse health impact as discussed in Sections 3.6 through 3.8. Thus, a less than significant impact to sensitive receptors during operational activity is expected.

TOXIC AIR POLLUTANTS

The Project may have a significant impact if it results in a maximum incremental cancer risk ≥ 10 in one million and/or a chronic & acute hazard index that is ≥1.0.

A Health Risk Assessment (HRA) has been prepared by Urban Crossroads, Inc. under a separate cover. The results of the *Fontana Foothill Commerce Center Health Risk Assessment*, the Project would not result in any significant health risk impacts from exposure to TACs resulting from the Project (56).

3.11 HEALTH IMPACTS PURSUANT TO FRIANT RANCH

In December 2018, in the case of *Sierra Club v. County of Fresno* (2018) 6 Cal.5th 502, California Supreme Court held that an EIR's air quality analysis must meaningfully connect the identified air quality impacts to the human health consequences of those impacts, or meaningfully explain why that analysis cannot be provided. As noted in the Brief of Amicus Curiae by the SCAQMD in the Friant Ranch case (April 6, 2015, Appendix 3.5 (Brief), SCAQMD has among the most sophisticated air quality modeling and health impact evaluation capability of any of the air districts in the State, and thus it is uniquely situated to express an opinion on how lead agencies should correlate air quality impacts with specific health outcomes **Invalid source specified.**.

The SCAQMD discusses that it may be infeasible to quantify health risks caused by projects similar to the proposed Project, due to many factors. It is necessary to have data regarding the sources and types of air toxic contaminants, location of emission points, velocity of emissions, the meteorology and topography of the area, and the location of receptors (worker and residence) **Invalid source specified.**. The Brief states that it may not be feasible to perform a health risk assessment for airborne toxics that will be emitted by a generic industrial building that was built on "speculation" (i.e., without knowing the future tenant(s))[8]**Invalid source specified.**. Even where a health risk assessment can be prepared, however, the resulting maximum health risk value is only a calculation of risk--it does not necessarily mean anyone will contract cancer as a result of the Project **Invalid source specified.**. The Brief also cites the author of the CARB methodology, which reported that a $PM_{2.5}$ methodology is not suited for small projects and may yield unreliable results **Invalid source specified.**. Similarly, SCAQMD staff does not currently know of a way to accurately quantify O_3-related health impacts caused by NO_X or VOC emissions from relatively small projects, due to photochemistry and regional model limitations **Invalid source specified.**. The Brief concludes, with respect to the Friant Ranch EIR, that although it may have been technically possible to plug the data into a methodology, the results would not have been reliable or meaningful **Invalid source specified.**.

[8] It should also be noted that the actual occurrence of specific health conditions is based on numerous other factors that are infeasible to quantify, such as an individual's genetic predisposition, diet, exercise regiment, stress, and other behavioral characteristics.

On the other hand, for extremely large regional projects (unlike the proposed Project), the SCAQMD states that it has been able to correlate potential health outcomes for very large emissions sources – as part of their rulemaking activity, specifically 6,620 lbs/day of NO_X and 89,180 lbs/day of VOC were expected to result in approximately 20 premature deaths per year and 89,947 school absences due to O_3 **Invalid source specified.**.

The proposed Project does not generate anywhere near 6,620 lbs/day of NO_X or 89,190 lbs/day of VOC emissions. The proposed Project would generate 63.84 lbs/day of NO_X during construction and 81.94 lbs/day of NO_X during operations (0.96% and 1.24% of 6,620 lbs/day, respectively). The Project would also generate 61.75 lbs/day of VOC emissions during construction and 21.52 lbs/day of VOC emissions during operations (0.07% and 0.02% of 89,190 lbs/day, respectively). Therefore, the proposed Project's emissions are not sufficiently high enough to use a regional modeling program to correlate health effects on a basin-wide level.

Notwithstanding, this AQIA does evaluate the proposed Project's localized impact to air quality for emissions of CO, NO_X, PM_{10}, and $PM_{2.5}$ by comparing the Proposed Project's on-site emissions to the SCAQMD's applicable LST thresholds. As evaluated in this AQIA, the proposed Project would not result in emissions that exceeded the SCAQMD's LSTs. Therefore, the proposed Project would not be expected to exceed the most stringent applicable federal or state ambient air quality standards for emissions of CO, NO_X, PM_{10}, and $PM_{2.5}$.

3.12 ODORS

The potential for the Project to generate objectionable odors has also been considered. Land uses generally associated with odor complaints include:

- Agricultural uses (livestock and farming)
- Wastewater treatment plants
- Food processing plants
- Chemical plants
- Composting operations
- Refineries
- Landfills
- Dairies
- Fiberglass molding facilities

The Project does not contain land uses typically associated with emitting objectionable odors. Potential odor sources associated with the proposed Project may result from construction equipment exhaust and the application of asphalt and architectural coatings during construction activities and the temporary storage of typical solid waste (refuse) associated with the proposed Project's (long-term operational) uses. Standard construction requirements would minimize odor impacts from construction. The construction odor emissions would be temporary, short-term, and intermittent in nature and would cease upon completion of the respective phase of construction and is thus considered less than significant. It is expected that Project-generated

refuse would be stored in covered containers and removed at regular intervals in compliance with the City's solid waste regulations. The proposed Project would also be required to comply with SCAQMD Rule 402 to prevent occurrences of public nuisances. Therefore, odors associated with the proposed Project construction and operations would be less than significant and no mitigation is required (57).

3.13 CUMULATIVE IMPACTS

As previously shown in Table 2-3, the CAAQS designate the Project region as nonattainment for O_3 PM_{10}, and $PM_{2.5}$ while the NAAQS designates the Project region as nonattainment for O_3 and $PM_{2.5}$.

The AQMD has published a report on how to address cumulative impacts from air pollution: *White Paper on Potential Control Strategies to Address Cumulative Impacts from Air Pollution* (58). In this report the AQMD clearly states (Page D-3):

> *"…the AQMD uses the same significance thresholds for project specific and cumulative impacts for all environmental topics analyzed in an Environmental Assessment or EIR. The only case where the significance thresholds for project specific and cumulative impacts differ is the Hazard Index (HI) significance threshold for TAC emissions. The project specific (project increment) significance threshold is HI > 1.0 while the cumulative (facility-wide) is HI > 3.0. It should be noted that the HI is only one of three TAC emission significance thresholds considered (when applicable) in a CEQA analysis. The other two are the maximum individual cancer risk (MICR) and the cancer burden, both of which use the same significance thresholds (MICR of 10 in 1 million and cancer burden of 0.5) for project specific and cumulative impacts.*
>
> *Projects that exceed the project-specific significance thresholds are considered by the SCAQMD to be cumulatively considerable. This is the reason project-specific and cumulative significance thresholds are the same. Conversely, projects that do not exceed the project-specific thresholds are generally not considered to be cumulatively significant."*

Therefore, this analysis assumes that individual projects that do not generate operational or construction emissions that exceed the SCAQMD's recommended daily thresholds for project-specific impacts would also not cause a cumulatively considerable increase in emissions for those pollutants for which the Basin is in nonattainment, and, therefore, would not be considered to have a significant, adverse air quality impact. Alternatively, individual project-related construction and operational emissions that exceed SCAQMD thresholds for project-specific impacts would be considered cumulatively considerable.

Construction Impacts

The Project-specific evaluation of emissions presented in the preceding analysis demonstrates that Project construction-source air pollutant emissions would not result in exceedances of

regional thresholds. Therefore, Project construction-source emissions would be considered less than significant on a project-specific and cumulative basis.

Operational-Source Emissions

Project operational-source NO_X emissions will exceed applicable SCAQMD regional thresholds. Per SCAQMD significance guidance, these impacts at the Project level are also considered cumulatively significant and would persist over the life of the Project. NO_X emissions are O_3 precursors and would therefore contribute considerably to existing O_3 non-attainment conditions within the SCAB. This is a cumulatively significant impact persisting over the life of the Project.

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5 CERTIFICATIONS

The contents of this air study report represent an accurate depiction of the environmental impacts associated with the proposed Fontana Foothill Commerce Center. The information contained in this air quality impact assessment report is based on the best available data at the time of preparation. If you have any questions, please contact me directly at (949) 336-5987.

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EDUCATION

Master of Science in Environmental Studies
California State University, Fullerton • May 2010

Bachelor of Arts in Environmental Analysis and Design
University of California, Irvine • June 2006

PROFESSIONAL AFFILIATIONS

AEP – Association of Environmental Planners
AWMA – Air and Waste Management Association
ASTM – American Society for Testing and Materials

PROFESSIONAL CERTIFICATIONS

Environmental Site Assessment – American Society for Testing and Materials • June 2013
Planned Communities and Urban Infill – Urban Land Institute • June 2011
Indoor Air Quality and Industrial Hygiene – EMSL Analytical • April 2008
Principles of Ambient Air Monitoring – California Air Resources Board • August 2007
AB2588 Regulatory Standards – Trinity Consultants • November 2006
Air Dispersion Modeling – Lakes Environmental • June 2006

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APPENDIX 2.1:

STATE/FEDERAL ATTAINMENT STATUS OF CRITERIA POLLUTANTS

APPENDIX C

MAPS AND TABLES OF AREA DESIGNATIONS FOR STATE AND NATIONAL AMBIENT AIR QUALITY STANDARDS

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APPENDIX C

MAPS AND TABLES OF AREA DESIGNATIONS FOR STATE AND NATIONAL AMBIENT AIR QUALITY STANDARDS

This attachment fulfills the requirement of Health and Safety Code section 40718 for CARB to publish maps that identify areas where one or more violations of any State ambient air quality standard (State standard) or national ambient air quality standard (national standard) have been measured. The national standards are those promulgated under section 109 of the federal Clean Air Act (42 U.S.C. 7409).

This attachment is divided into three parts. The first part comprises a table showing the levels, averaging times, and measurement methods for each of the State and national standards. This is followed by a section containing maps and tables showing the area designations for each pollutant for which there is a State standard in the California Code of Regulations, title 17, section 70200. The last section contains maps and tables showing the most current area designations for the national standards.

Ambient Air Quality Standards

(Updated 5/4/16)

Pollutant	Averaging Time	California Standards [1]		National Standards [2]		
		Concentration [3]	Method [4]	Primary [3,5]	Secondary [3,6]	Method [7]
Ozone (O_3)[8]	1 Hour	0.09 ppm (180 µg/m³)	Ultraviolet Photometry	—	Same as Primary Standard	Ultraviolet Photometry
	8 Hour	0.070 ppm (137 µg/m³)		0.070 ppm (137 µg/m³)		
Respirable Particulate Matter (PM10)[9]	24 Hour	50 µg/m³	Gravimetric or Beta Attenuation	150 µg/m³	Same as Primary Standard	Inertial Separation and Gravimetric Analysis
	Annual Arithmetic Mean	20 µg/m³		—		
Fine Particulate Matter (PM2.5)[9]	24 Hour	—	—	35 µg/m³	Same as Primary Standard	Inertial Separation and Gravimetric Analysis
	Annual Arithmetic Mean	12 µg/m³	Gravimetric or Beta Attenuation	12.0 µg/m³	15 µg/m³	
Carbon Monoxide (CO)	1 Hour	20 ppm (23 mg/m³)	Non-Dispersive Infrared Photometry (NDIR)	35 ppm (40 mg/m³)	—	Non-Dispersive Infrared Photometry (NDIR)
	8 Hour	9.0 ppm (10 mg/m³)		9 ppm (10 mg/m³)	—	
	8 Hour (Lake Tahoe)	6 ppm (7 mg/m³)		—	—	
Nitrogen Dioxide (NO_2)[10]	1 Hour	0.18 ppm (339 µg/m³)	Gas Phase Chemiluminescence	100 ppb (188 µg/m³)	—	Gas Phase Chemiluminescence
	Annual Arithmetic Mean	0.030 ppm (57 µg/m³)		0.053 ppm (100 µg/m³)	Same as Primary Standard	
Sulfur Dioxide (SO_2)[11]	1 Hour	0.25 ppm (655 µg/m³)	Ultraviolet Fluorescence	75 ppb (196 µg/m³)	—	Ultraviolet Flourescence; Spectrophotometry (Pararosaniline Method)
	3 Hour	—		—	0.5 ppm (1300 µg/m³)	
	24 Hour	0.04 ppm (105 µg/m³)		0.14 ppm (for certain areas)[11]	—	
	Annual Arithmetic Mean	—		0.030 ppm (for certain areas)[11]	—	
Lead[12,13]	30 Day Average	1.5 µg/m³	Atomic Absorption	—	—	High Volume Sampler and Atomic Absorption
	Calendar Quarter	—		1.5 µg/m³ (for certain areas)[12]	Same as Primary Standard	
	Rolling 3-Month Average	—		0.15 µg/m³		
Visibility Reducing Particles[14]	8 Hour	See footnote 14	Beta Attenuation and Transmittance through Filter Tape	**No National Standards**		
Sulfates	24 Hour	25 µg/m³	Ion Chromatography			
Hydrogen Sulfide	1 Hour	0.03 ppm (42 µg/m³)	Ultraviolet Fluorescence			
Vinyl Chloride[12]	24 Hour	0.01 ppm (26 µg/m³)	Gas Chromatography			

See footnotes on next page ...

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

2. National standards (other than ozone, particulate matter, and those based on annual arithmetic mean) are not to be exceeded more than once a year. The ozone standard is attained when the fourth highest 8-hour concentration measured at each site in a year, averaged over three years, is equal to or less than the standard. For PM10, the 24-hour standard is attained when the expected number of days per calendar year with a 24-hour average concentration above 150 $\mu g/m^3$ is equal to or less than one. For PM2.5, the 24-hour standard is attained when 98 percent of the daily concentrations, averaged over three years, are equal to or less than the standard. Contact the U.S. EPA for further clarification and current national policies.

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

4. Any equivalent measurement method which can be shown to the satisfaction of the CARB to give equivalent results at or near the level of the air quality standard may be used.

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

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

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

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

9. On December 14, 2012, the national annual PM2.5 primary standard was lowered from 15 $\mu g/m^3$ to 12.0 $\mu g/m^3$. The existing national 24-hour PM2.5 standards (primary and secondary) were retained at 35 $\mu g/m^3$, as was the annual secondary standard of 15 $\mu g/m^3$. The existing 24-hour PM10 standards (primary and secondary) of 150 $\mu g/m^3$ also were retained. The form of the annual primary and secondary standards is the annual mean, averaged over 3 years.

10. To attain the 1-hour national standard, the 3-year average of the annual 98th percentile of the 1-hour daily maximum concentrations at each site must not exceed 100 ppb. Note that the national 1-hour standard is in units of parts per billion (ppb). California standards are in units of parts per million (ppm). To directly compare the national 1-hour standard to the California standards the units can be converted from ppb to ppm. In this case, the national standard of 100 ppb is identical to 0.100 ppm.

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

    Note that the 1-hour national standard is in units of parts per billion (ppb). California standards are in units of parts per million (ppm). To directly compare the 1-hour national standard to the California standard the units can be converted to ppm. In this case, the national standard of 75 ppb is identical to 0.075 ppm.

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

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

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

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Area Designations for the State Ambient Air Quality Standards

The following maps and tables show the area designations for each pollutant with a State standard set forth in the California Code of Regulations, title 17, section 60200. Each area is identified as attainment, nonattainment, nonattainment-transitional, or unclassified for each pollutant, as shown below:

Attainment	A
Nonattainment	N
Nonattainment-Transitional	NA-T
Unclassified	U

In general, CARB designates areas by air basin for pollutants with a regional impact and by county for pollutants with a more local impact. However, when there are areas within an air basin or county with distinctly different air quality deriving from sources and conditions not affecting the entire air basin or county, CARB may designate a smaller area. Generally, when boundaries of the designated area differ from the air basin or county boundaries, the description of the specific area is referenced at the bottom of the summary table.

FIGURE 1


2018
Area Designations for State
Ambient Air Quality Standards
OZONE
N
0
50
100
200
Miles
Del Norte
Siskiyou
Modoc
NORTHEAST PLATEAU
NORTH COAST
Shasta
Lassen
Humboldt
Trinity
Tehema
SACRAMENTO VALLEY
SUTTER BUTTES
Plumas
Mendocino
Glenn
Butte
Sierra
MOUNTAIN COUNTIES
Nevada
LAKE COUNTY
Colusa
Yuba
Placer
Lake
Sutter
LAKE TAHOE
El Dorado
Yolo
Alpine
Sonoma
Napa
Sac
Amador
SAN FRANCISCO BAY AREA
Solano
Calaveras
Marin
San Joaquin
Contra Costa
Tuolumne
Mono
San Francisco
Alameda
Mariposa
GREAT BASIN VALLEYS
San Mateo
Stanislaus
Santa Clara
Merced
Santa Cruz
Madera
SAN JOAQUIN VALLEY
San Benito
Fresno
NORTH CENTRAL COAST
Inyo
Tulare
Monterey
Kings
San Luis Obispo
Kern
SOUTH CENTRAL COAST
Santa Barbara
San Bernardino
Ventura
Los Angeles
MOJAVE DESERT
Orange
Riverside
SOUTH COAST
San Diego
Imperial
SAN DIEGO COUNTY
SALTON SEA
Unclassified
Attainment
Nonattainment-Transitional
Nonattainment
Air Basin
County
Source Date:
October 2018
Air Quality Planning and Science Division

TABLE 1

California Ambient Air Quality Standards
Area Designations for Ozone [1]

	N	NA-T	U	A		N	NA-T	U	A
GREAT BASIN VALLEYS AIR BASIN					NORTHEAST PLATEAU AIR BASIN				X
Alpine County			X		SACRAMENTO VALLEY AIR BASIN				
Inyo County	X				Colusa and Glenn Counties				X
Mono County	X				Sutter/Yuba Counties				
LAKE COUNTY AIR BASIN				X	Sutter Buttes	X			
LAKE TAHOE AIR BASIN				X	Remainder of Sutter County				X
MOJAVE DESERT AIR BASIN	X				Yuba County				X
MOUNTAIN COUNTIES AIR BASIN					Yolo/Solano Counties		X		
Amador County	X				Remainder of Air Basin	X			
Calaveras County	X				SALTON SEA AIR BASIN	X			
El Dorado County (portion)	X				SAN DIEGO AIR BASIN	X			
Mariposa County	X				SAN FRANCISCO BAY AREA AIR BASIN	X			
Nevada County	X				SAN JOAQUIN VALLEY AIR BASIN	X			
Placer County (portion)	X				SOUTH CENTRAL COAST AIR BASIN				
Plumas County			X		San Luis Obispo County	X			
Sierra County			X		Santa Barbara County		X		
Tuolumne County	X				Ventura County	X			
NORTH CENTRAL COAST AIR BASIN		X			SOUTH COAST AIR BASIN	X			
NORTH COAST AIR BASIN				X					

(1) AB 3048 (Olberg) and AB 2525 (Miller) signed into law in 1996, made changes to Health and Safety Code, section 40925.5. One of the changes allows nonattainment districts to become nonattainment-transitional for ozone by operation of law.

FIGURE 2

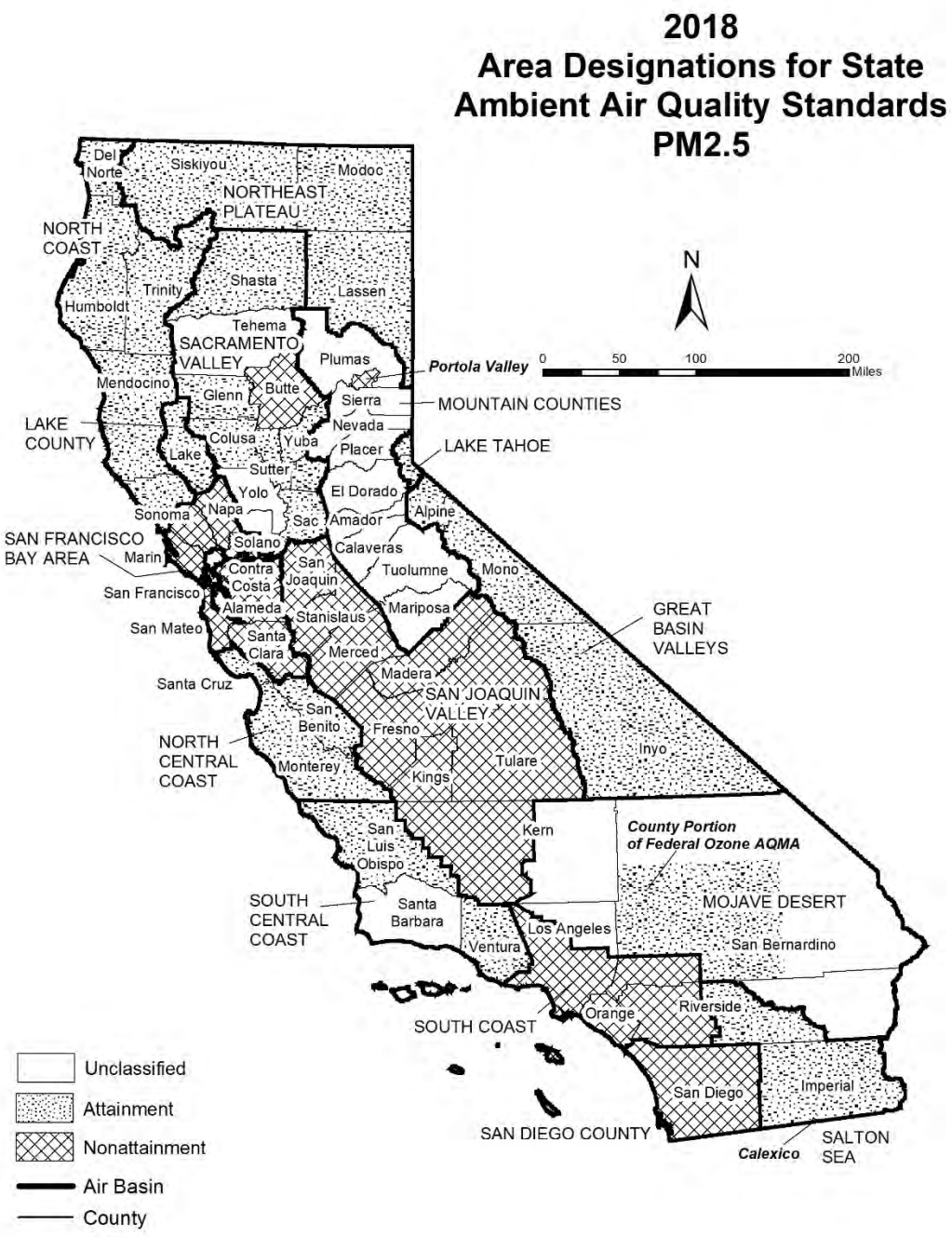

2018
Area Designations for State
Ambient Air Quality Standards
PM10
N
0
50
100
200
Miles
Del Norte
Siskiyou
Modoc
NORTHEAST PLATEAU
NORTH COAST
Trinity
Shasta
Lassen
Humboldt
Tehema
SACRAMENTO VALLEY
Plumas
Mendocino
Glenn
Butte
Sierra
MOUNTAIN COUNTIES
LAKE COUNTY
Colusa
Yuba
Nevada
Lake
Sutter
Placer
LAKE TAHOE
Yolo
El Dorado
Sonoma
Napa
Sac
Amador
Alpine
Yosemite NP
SAN FRANCISCO BAY AREA
Solano
Calaveras
Marin
Contra Costa
San Joaquin
Tuolumne
Mono
San Francisco
Alameda
Stanislaus
Mariposa
GREAT BASIN VALLEYS
San Mateo
Santa Clara
Merced
Madera
Santa Cruz
SAN JOAQUIN VALLEY
San Benito
Fresno
NORTH CENTRAL COAST
Monterey
Tulare
Inyo
Kings
San Luis Obispo
Kern
MOJAVE DESERT
Santa Barbara
Los Angeles
San Bernardino
SOUTH CENTRAL COAST
Ventura
Orange
Riverside
SOUTH COAST
San Diego
Imperial
SAN DIEGO COUNTY
SALTON SEA
Unclassified
Attainment
Nonattainment
Air Basin
County
Source Date:
October 2018
Air Quality Planning and Science Division

TABLE 2

California Ambient Air Quality Standards
Area Designation for Suspended Particulate Matter (PM10)

	N	U	A		N	U	A
GREAT BASIN VALLEYS AIR BASIN	X			NORTH CENTRAL COAST AIR BASIN	X		
LAKE COUNTY AIR BASIN			X	NORTH COAST AIR BASIN			
LAKE TAHOE AIR BASIN	X			Del Norte, Sonoma (portion) and Trinity Counties			X
MOJAVE DESERT AIR BASIN	X			Remainder of Air Basin	X		
MOUNTAIN COUNTIES AIR BASIN				NORTHEAST PLATEAU AIR BASIN			
Amador County		X		Siskiyou County			X
Calaveras County	X			Remainder of Air Basin		X	
El Dorado County (portion)	X			SACRAMENTO VALLEY AIR BASIN			
Mariposa County				Shasta County			X
- Yosemite National Park	X			Remainder of Air Basin	X		
- Remainder of County		X		SALTON SEA AIR BASIN	X		
Nevada County	X			SAN DIEGO AIR BASIN	X		
Placer County (portion)	X			SAN FRANCISCO BAY AREA AIR BASIN	X		
Plumas County	X			SAN JOAQUIN VALLEY AIR BASIN	X		
Sierra County	X			SOUTH CENTRAL COAST AIR BASIN	X		
Tuolumne County		X		SOUTH COAST AIR BASIN	X		

FIGURE 3



Source Date:
October 2018
Air Quality Planning and Science Division

TABLE 3

California Ambient Air Quality Standards
Area Designations for Fine Particulate Matter (PM2.5)

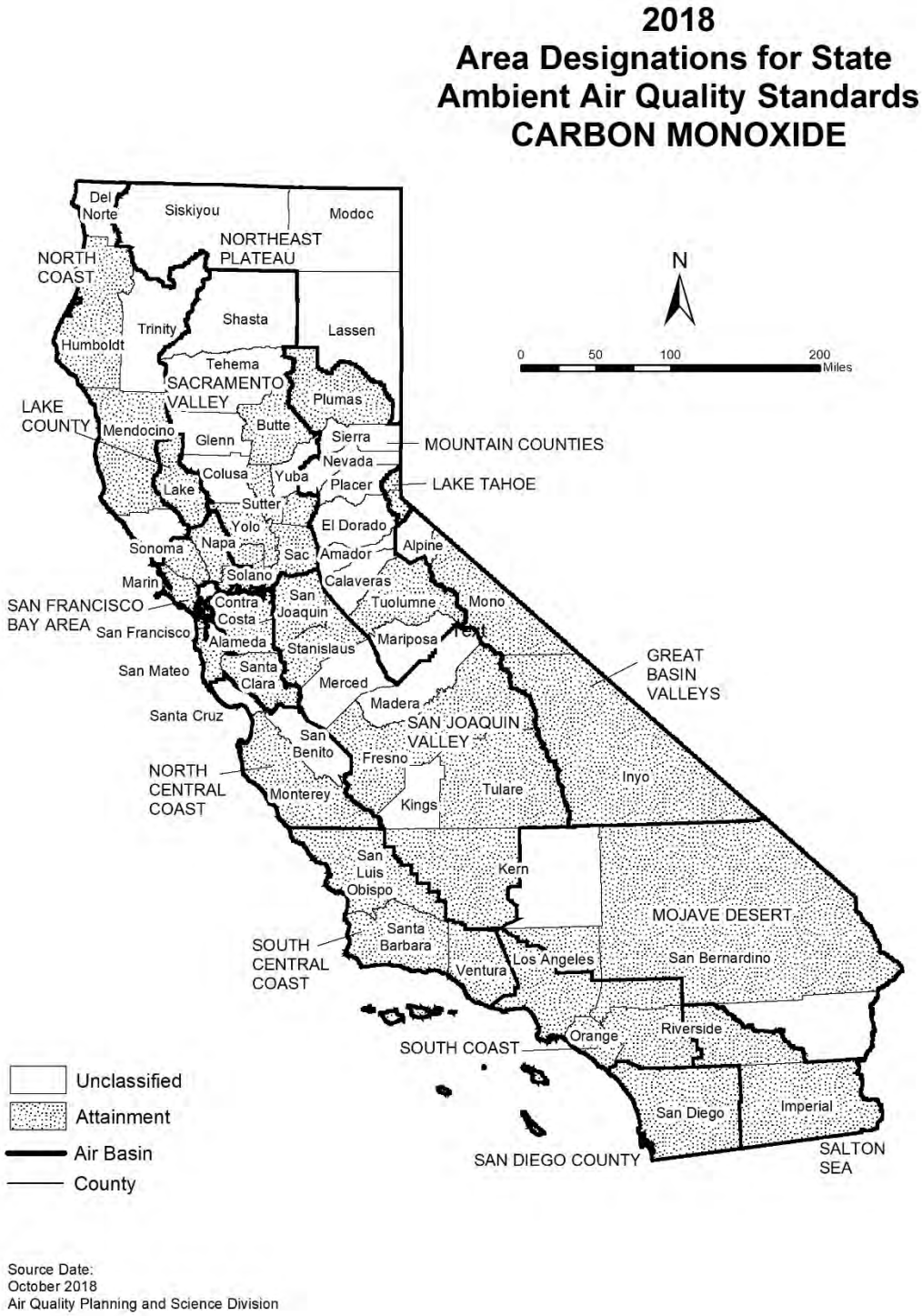
	N	U	A		N	U	A
GREAT BASIN VALLEYS AIR BASIN			X	SALTON SEA AIR BASIN			
LAKE COUNTY AIR BASIN			X	Imperial County			
LAKE TAHOE AIR BASIN			X	- City of Calexico (3)	X		
MOJAVE DESERT AIR BASIN				Remainder of Air Basin			X
San Bernardino County				SAN DIEGO AIR BASIN	X		
- County portion of federal Southeast Desert Modified AQMA for Ozone (1)			X	SAN FRANCISCO BAY AREA AIR BASIN	X		
				SAN JOAQUIN VALLEY AIR BASIN	X		
Remainder of Air Basin		X		SOUTH CENTRAL COAST AIR BASIN			
MOUNTAIN COUNTIES AIR BASIN				San Luis Obispo County			X
Plumas County				Santa Barbara County		X	
- Portola Valley (2)	X			Ventura County			X
Remainder of Air Basin		X		SOUTH COAST AIR BASIN	X		
NORTH CENTRAL COAST AIR BASIN			X				
NORTH COAST AIR BASIN			X				
NORTHEAST PLATEAU AIR BASIN			X				
SACRAMENTO VALLEY AIR BASIN							
Butte County	X						
Colusa County			X				
Glenn County			X				
Placer County (portion)			X				
Sacramento County			X				
Shasta County			X				
Sutter and Yuba Counties			X				
Remainder of Air Basin		X					

(1) California Code of Regulations, title 17, section 60200(b)

(2) California Code of Regulations, title 17, section 60200(c)

(3) California Code of Regulations, title 17, section 60200(a)

FIGURE 4



Source Date:
October 2018
Air Quality Planning and Science Division

TABLE 4

California Ambient Air Quality Standards
Area Designation for Carbon Monoxide*

	N	NA-T	U	A		N	NA-T	U	A
GREAT BASIN VALLEYS AIR BASIN					SACRAMENTO VALLEY AIR BASIN				
Alpine County			X		Butte County				X
Inyo County				X	Colusa County			X	
Mono County				X	Glenn County			X	
LAKE COUNTY AIR BASIN				X	Placer County (portion)				X
LAKE TAHOE AIR BASIN				X	Sacramento County				X
MOJAVE DESERT AIR BASIN					Shasta County			X	
Kern County (portion)			X		Solano County (portion)				X
Los Angeles County (portion)				X	Sutter County				X
Riverside County (portion)			X		Tehama County			X	
San Bernardino County (portion)				X	Yolo County				X
MOUNTAIN COUNTIES AIR BASIN					Yuba County			X	
Amador County			X		SALTON SEA AIR BASIN				X
Calaveras County			X		SAN DIEGO AIR BASIN				X
El Dorado County (portion)			X		SAN FRANCISCO BAY AREA AIR BASIN				X
Mariposa County			X		SAN JOAQUIN VALLEY AIR BASIN				
Nevada County			X		Fresno County				X
Placer County (portion)			X		Kern County (portion)				X
Plumas County				X	Kings County			X	
Sierra County			X		Madera County			X	
Tuolumne County				X	Merced County			X	
NORTH CENTRAL COAST AIR BASIN					San Joaquin County				X
Monterey County				X	Stanislaus County				X
San Benito County			X		Tulare County				X
Santa Cruz County			X		SOUTH CENTRAL COAST AIR BASIN				X
NORTH COAST AIR BASIN					SOUTH COAST AIR BASIN				X
Del Norte County			X						
Humboldt County				X					
Mendocino County				X					
Sonoma County (portion)			X						
Trinity County			X						
NORTHEAST PLATEAU AIR BASIN			X						

* The area designated for carbon monoxide is a county or portion of a county

FIGURE 5



Source Date:
October 2018
Air Quality Planning and Science Division

TABLE 5

California Ambient Air Quality Standards
Area Designation for Nitrogen Dioxide

	N	U	A		N	U	A
GREAT BASIN VALLEYS AIR BASIN			X	SACRAMENTO VALLEY AIR BASIN			X
LAKE COUNTY AIR BASIN			X	SALTON SEA AIR BASIN			X
LAKE TAHOE AIR BASIN			X	SAN DIEGO AIR BASIN			X
MOJAVE DESERT AIR BASIN			X	SAN FRANCISCO BAY AREA AIR BASIN			X
MOUNTAIN COUNTIES AIR BASIN			X	SAN JOAQUIN VALLEY AIR BASIN			X
NORTH CENTRAL COAST AIR BASIN			X	SOUTH CENTRAL COAST AIR BASIN			X
NORTH COAST AIR BASIN			X	SOUTH COAST AIR BASIN			
NORTHEAST PLATEAU AIR BASIN			X	CA 60 Near-road Portion of San Bernardino, Riverside, and Los Angeles Counties	X		
				Remainder of Air Basin			X

FIGURE 6



Source Date:
October 2018
Air Quality Planning and Science Division

TABLE 6

California Ambient Air Quality Standards
Area Designation for Sulfur Dioxide*

	N	U/A		N	U/A
GREAT BASIN VALLEYS AIR BASIN		X	SACRAMENTO VALLEY AIR BASIN		X
LAKE COUNTY AIR BASIN		X	SALTON SEA AIR BASIN		X
LAKE TAHOE AIR BASIN		X	SAN DIEGO AIR BASIN		X
MOJAVE DESERT AIR BASIN		X	SAN FRANCISCO BAY AREA AIR BASIN		X
MOUNTAIN COUNTIES AIR BASIN		X	SAN JOAQUIN VALLEY AIR BASIN		X
NORTH CENTRAL COAST AIR BASIN		X	SOUTH CENTRAL COAST AIR BASIN		X
NORTH COAST AIR BASIN		X	SOUTH COAST AIR BASIN		X
NORTHEAST PLATEAU AIR BASIN		X			

* The area designated for sulfur dioxide is a county or portion of a county

FIGURE 7



Source Date:
October 2018
Air Quality Planning and Science Division

TABLE 7

California Ambient Air Quality Standards
Area Designation for Sulfates

	N	U	A		N	U	A
GREAT BASIN VALLEYS AIR BASIN			X	SACRAMENTO VALLEY AIR BASIN			X
LAKE COUNTY AIR BASIN			X	SALTON SEA AIR BASIN			X
LAKE TAHOE AIR BASIN			X	SAN DIEGO AIR BASIN			X
MOJAVE DESERT AIR BASIN			X	SAN FRANCISCO BAY AREA AIR BASIN			X
MOUNTAIN COUNTIES AIR BASIN			X	SAN JOAQUIN VALLEY AIR BASIN			X
NORTH CENTRAL COAST AIR BASIN			X	SOUTH CENTRAL COAST AIR BASIN			X
NORTH COAST AIR BASIN			X	SOUTH COAST AIR BASIN			X
NORTHEAST PLATEAU AIR BASIN			X				

FIGURE 8



Source Date:
October 2018
Air Quality Planning and Science Division

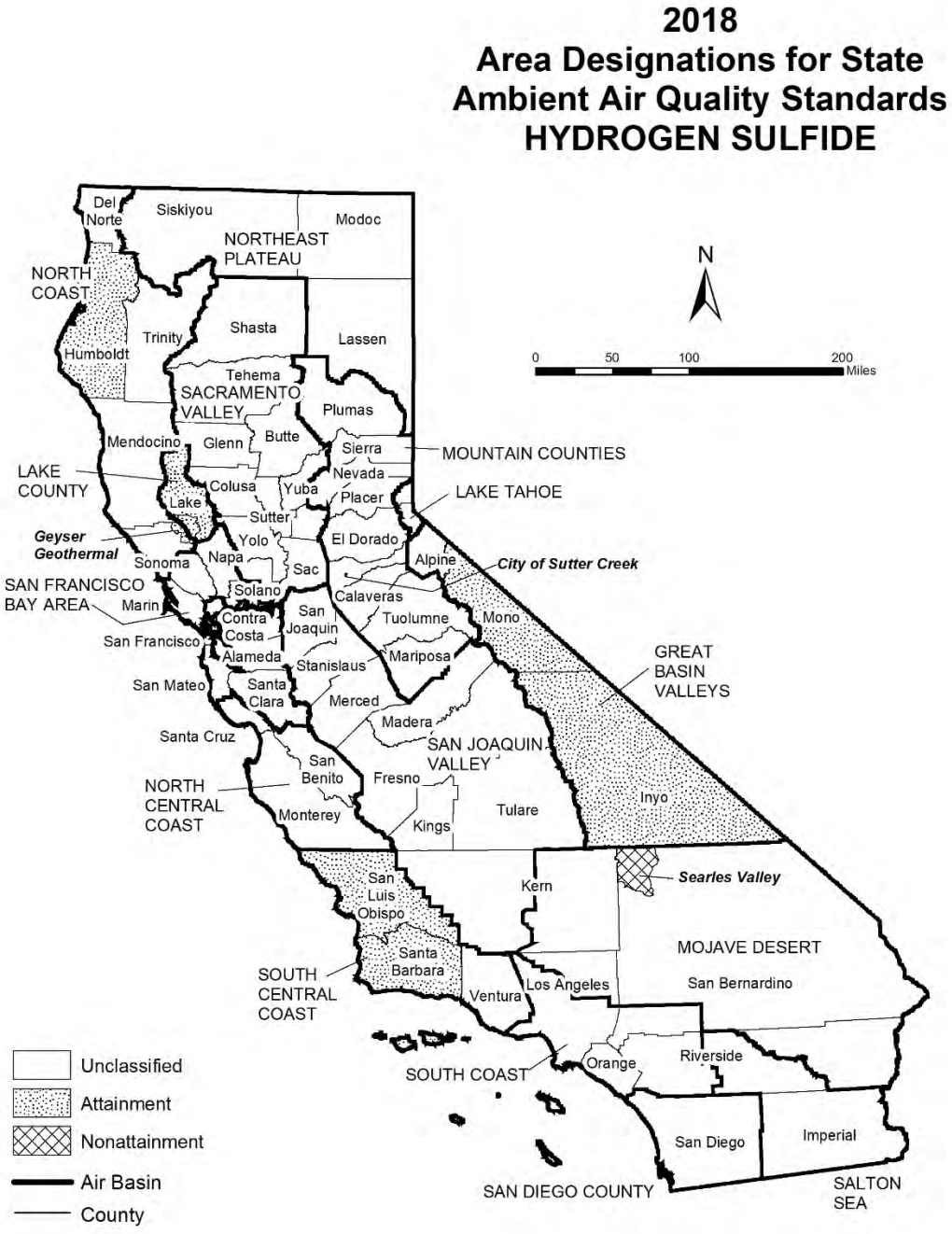
TABLE 8

California Ambient Air Quality Standards
Area Designations for Lead (particulate)*

	N	U	A		N	U	A
GREAT BASIN VALLEYS AIR BASIN			X	SALTON SEA AIR BASIN			X
LAKE COUNTY AIR BASIN			X	SAN DIEGO AIR BASIN			X
LAKE TAHOE AIR BASIN			X	SAN FRANCISCO BAY AREA AIR BASIN			X
MOJAVE DESERT AIR BASIN			X	SAN JOAQUIN VALLEY AIR BASIN			X
MOUNTAIN COUNTIES AIR BASIN			X	SOUTH CENTRAL COAST AIR BASIN			X
NORTH CENTRAL COAST AIR BASIN			X	SOUTH COAST AIR BASIN			X
NORTH COAST AIR BASIN			X				
NORTHEAST PLATEAU AIR BASIN			X				
SACRAMENTO VALLEY AIR BASIN			X				

* The area designated for lead is a county or portion of a county. Since all areas in the State are in attainment for this standard, air basins are indicated here for simplicity.

FIGURE 9



Source Date:
October 2018
Air Quality Planning and Science Division

TABLE 9

California Ambient Air Quality Standards
Area Designation for Hydrogen Sulfide*

	N	NA-T	U	A		N	NA-T	U	A
GREAT BASIN VALLEYS AIR BASIN					NORTH CENTRAL COAST AIR BASIN			X	
Alpine County			X		NORTH COAST AIR BASIN				
Inyo County				X	Del Norte County			X	
Mono County				X	Humboldt County				X
LAKE COUNTY AIR BASIN				X	Mendocino County			X	
LAKE TAHOE AIR BASIN			X		Sonoma County (portion)				
MOJAVE DESERT AIR BASIN					- Geyser Geothermal Area (2)				X
Kern County (portion)			X		- Remainder of County			X	
Los Angeles County (portion)			X		Trinity County			X	
Riverside County (portion)			X		NORTHEAST PLATEAU AIR BASIN			X	
San Bernardino County (portion)					SACRAMENTO VALLEY AIR BASIN			X	
- Searles Valley Planning Area (1)	X				SALTON SEA AIR BASIN			X	
- Remainder of County			X		SAN DIEGO AIR BASIN			X	
MOUNTAIN COUNTIES AIR BASIN					SAN FRANCISCO BAY AREA AIR BASIN			X	
Amador County					SAN JOAQUIN VALLEY AIR BASIN			X	
- City of Sutter Creek	X				SOUTH CENTRAL COAST AIR BASIN				
- Remainder of County			X		San Luis Obispo County				X
Calaveras County			X		Santa Barbara County				X
El Dorado County (portion)			X		Ventura County			X	
Mariposa County			X		SOUTH COAST AIR BASIN			X	
Nevada County			X						
Placer County (portion)			X						
Plumas County			X						
Sierra County			X						
Tuolumne County			X						

* The area designated for hydrogen sulfide is a county or portion of a county

(1) 52 Federal Register 29384 (August 7, 1987)

(2) California Code of Regulations, title 17, section 60200(d)

FIGURE 10



Source Date:
October 2018
Air Quality Planning and Science Division

TABLE 10

California Ambient Air Quality Standards
Area Designation for Visibility Reducing Particles

	N	NA-T	U	A		N	NA-T	U	A
GREAT BASIN VALLEYS AIR BASIN			X		SACRAMENTO VALLEY AIR BASIN			X	
LAKE COUNTY AIR BASIN				X	SALTON SEA AIR BASIN			X	
LAKE TAHOE AIR BASIN			X		SAN DIEGO AIR BASIN			X	
MOJAVE DESERT AIR BASIN			X		SAN FRANCISCO BAY AREA AIR BASIN			X	
MOUNTAIN COUNTIES AIR BASIN			X		SAN JOAQUIN VALLEY AIR BASIN			X	
NORTH CENTRAL COAST AIR BASIN			X		SOUTH CENTRAL COAST AIR BASIN			X	
NORTH COAST AIR BASIN			X		SOUTH COAST AIR BASIN			X	
NORTHEAST PLATEAU AIR BASIN			X						

Area Designations for the National Ambient Air Quality Standards

The following maps and tables show the area designations for each pollutant with a national ambient air quality standard. Additional information about the federal area designations is available on the U.S. EPA website:

https://www.epa.gov/green-book

Over the last several years, U.S. EPA has been reviewing the levels of the various national standards. The agency has already promulgated new standard levels for some pollutants and is considering revising the levels for others. Information about the status of these reviews is available on the U.S. EPA website:

https://www.epa.gov/criteria-air-pollutants

Designation Categories

Suspended Particulate Matter (PM_{10}). The U.S. EPA uses three categories to designate areas with respect to PM_{10}:

- Attainment
- Nonattainment
- Unclassifiable

Ozone, Fine Suspended Particulate Matter ($PM_{2.5}$), Carbon Monoxide (CO), and Nitrogen Dioxide (NO_2). The U.S. EPA uses two categories to designate areas with respect to these standards:

- Nonattainment
- Unclassifiable/Attainment

The national 1-hour ozone standard was revoked effective June 15, 2005, and the area designations map reflects the 2015 national 8-hour ozone standard of 0.070 ppm. Original designations were finalized on August 3, 2018.

On December 14, 2012, the U.S. EPA established a new national annual primary $PM_{2.5}$ standard of 12.0 $\mu g/m^3$. New area designations reflecting this revised standard became final in December 2014. The current designation map reflects the most recently revised (2012) annual average standard of 12.0 $\mu g/m^3$ as well as the 24-hour standard of 35 $\mu g/m^3$, revised in 2006.

On January 22, 2010, the U.S. EPA established a new national 1-hour NO_2 standard of 100 parts per billion (ppb) and retained the annual average standard of 53 ppb. Designations for the primary NO_2 standard became effective on February 29, 2012. All areas of California meet this standard.

Sulfur Dioxide (SO_2). The U.S. EPA uses three categories to designate areas with respect to the 24-hour and annual average sulfur dioxide standards. These designation categories are:

- Nonattainment,
- Unclassifiable, and
- Attainment/Unclassifiable.

On June 2, 2010, the U.S. EPA established a new primary 1-hour SO_2 standard of 75 parts per billion (ppb). At the same time, U.S. EPA revoked the 24-hour and annual

average standards. Area designations for the 1-hour SO_2 standard were finalized on December 21, 2017 and are reflected in the area designations map.

Lead (particulate). The U.S. EPA promulgated a new rolling 3-month average lead standard in October 2008 of 0.15 µg/m^3. Designations were made for this standard in November 2010.

Designation Areas

From time to time, the boundaries of the California air basins have been changed to facilitate the planning process. CARB generally initiates these changes, and they are not always reflected in the U.S. EPA's area designations. For purposes of consistency, the maps in this attachment reflect area designation boundaries and nomenclature as promulgated by the U.S. EPA. In some cases, these may not be the same as those adopted by CARB. For example, the national area designations reflect the former Southeast Desert Air Basin. In accordance with Health and Safety Code section 39606.1, CARB redefined this area in 1996 to be the Mojave Desert Air Basin and Salton Sea Air Basin. The definitions and boundaries for all areas designated for the national standards can be found in Title 40, Code of Federal Regulations (CFR), Chapter I, Subchapter C, Part 81.305. They are available on the web at:

https://ecfr.io/Title-40/se40.20.81_1305

FIGURE 11

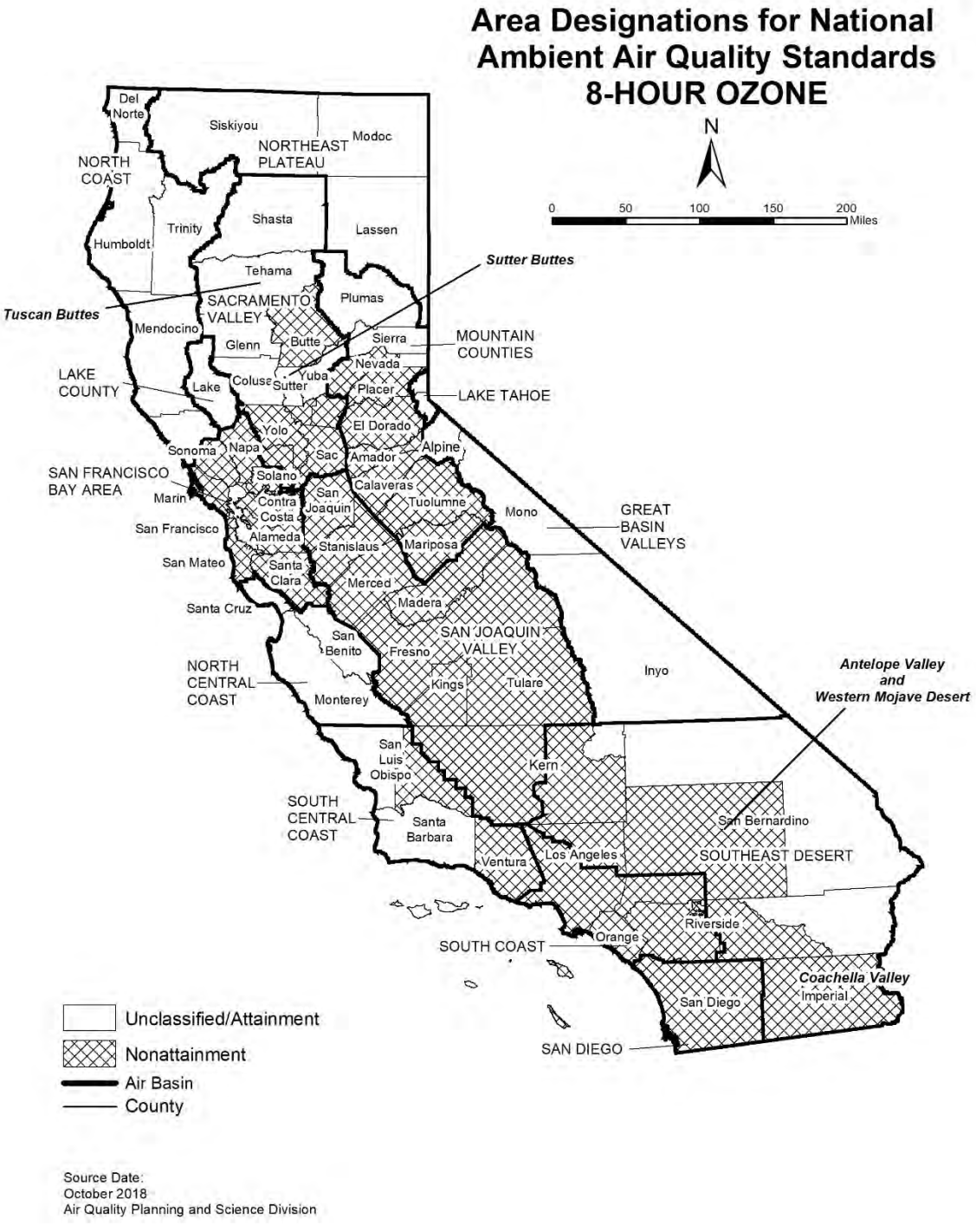

Area Designations for National Ambient Air Quality Standards
8-HOUR OZONE
N
0 50 100 150 200 Miles
Del Norte
Siskiyou
Modoc
NORTHEAST PLATEAU
NORTH COAST
Trinity
Shasta
Lassen
Humboldt
Tehama
Sutter Buttes
Tuscan Buttes
SACRAMENTO VALLEY
Plumas
Mendocino
Glenn
Butte
Sierra
MOUNTAIN COUNTIES
Nevada
LAKE COUNTY
Lake
Colusa
Sutter
Yuba
Placer
LAKE TAHOE
Yolo
El Dorado
Sonoma
Napa
Sac
Amador
Alpine
SAN FRANCISCO BAY AREA
Solano
Marin
Contra Costa
San Joaquin
Calaveras
Tuolumne
Mono
GREAT BASIN VALLEYS
San Francisco
Alameda
Stanislaus
Mariposa
San Mateo
Santa Clara
Merced
Madera
Santa Cruz
San Benito
SAN JOAQUIN VALLEY
Fresno
Inyo
NORTH CENTRAL COAST
Kings
Tulare
Antelope Valley and Western Mojave Desert
Monterey
San Luis Obispo
Kern
SOUTH CENTRAL COAST
Santa Barbara
San Bernardino
Ventura
Los Angeles
SOUTHEAST DESERT
Riverside
Orange
SOUTH COAST
Coachella Valley
Imperial
San Diego
SAN DIEGO
Unclassified/Attainment
Nonattainment
Air Basin
County
Source Date:
October 2018
Air Quality Planning and Science Division

TABLE 11

National Ambient Air Quality Standards
Area Designations for 8-Hour Ozone*

	N	U/A		N	U/A
GREAT BASIN VALLEYS AIR BASIN		X	SACRAMENTO VALLEY AIR BASIN (cont.)		
LAKE COUNTY AIR BASIN		X	Yolo County (2)	X	
LAKE TAHOE AIR BASIN		X	Yuba County		X
MOUNTAIN COUNTIES AIR BASIN			SAN DIEGO COUNTY	X	
Amador County	X		SAN FRANCISCO BAY AREA AIR BASIN	X	
Calaveras County	X		SAN JOAQUIN VALLEY AIR BASIN	X	
El Dorado County (portion) (2)	X		SOUTH CENTRAL COAST AIR BASIN (1)		
Mariposa County	X		San Luis Obispo County		
Nevada County			- Eastern San Luis Obispo County	X	
- Western Nevada County	X		- Remainder of County		X
- Remainder of County		X	Santa Barbara County		X
Placer County (portion) (2)	X		Ventura County		
Plumas County		X	- Area excluding Anacapa and San Nicolas Islands	X	
Sierra County		X	- Channel Islands (1)		X
Tuolumne County	X		SOUTH COAST AIR BASIN (1)	X	
NORTH CENTRAL COAST AIR BASIN		X	SOUTHEAST DESERT AIR BASIN		
NORTH COAST AIR BASIN		X	Kern County (portion)	X	
NORTHEAST PLATEAU AIR BASIN		X	- Indian Wells Valley		X
SACRAMENTO VALLEY AIR BASIN			Imperial County	X	
Butte County	X		Los Angeles County (portion)	X	
Colusa County		X	Riverside County (portion)		
Glenn County		X	- Coachella Valley	X	
Sacramento Metro Area (2)	X		- Non-AQMA portion		X
Shasta County		X	San Bernardino County		
Sutter County			- Western portion (AQMA)	X	
- Sutter Buttes	X		- Eastern portion (non-AQMA)		X
- Southern portion of Sutter County (2)	X				
- Remainder of Sutter County		X			
Tehama County					
- Tuscan Buttes	X				
- Remainder of Tehama County		X			

* Definitions and references for all areas can be found in 40 CFR, Chapter I, Part 81.305.

NOTE: This map and table reflect the 2015 8-hour ozone standard of 0.070 ppm.

(1) South Central Coast Air Basin Channel Islands:
Santa Barbara County includes Santa Cruz, San Miguel, Santa Rosa, and Santa Barbara Islands.
Ventura County includes Anacapa and San Nicolas Islands.

South Coast Air Basin:
Los Angeles County includes San Clemente and Santa Catalina Islands.

(2) For this purpose, the Sacramento Metro Area comprises all of Sacramento and Yolo Counties, the Sacramento Valley Air Basin portion of Solano County, the southern portion of Sutter County, and the Sacramento Valley and Mountain Counties Air Basins portions of Placer and El Dorado counties.

FIGURE 12


Area Designations for National Ambient Air Quality Standards PM10
N
0 50 100 150 200 Miles
Del Norte
Siskiyou
Modoc
NORTHEAST PLATEAU
NORTH COAST
Shasta
Lassen
Trinity
Humboldt
Tehema
SACRAMENTO VALLEY
Plumas
Mendocino
Glenn
Butte
Sierra
MOUNTAIN COUNTIES
Nevada
LAKE COUNTY
Colusa
Yuba
Placer
LAKE TAHOE
Lake
Sutter
Yolo
El Dorado
Alpine
Sacramento County
Sonoma
Napa
Sac
Amador
Mono
Mono Basin
SAN FRANCISCO BAY AREA
Marin
Solano
Calaveras
Contra Costa
San Joaquin
Tuolumne
Mammoth Lake
GREAT BASIN VALLEYS
San Francisco
Alameda
Stanislaus
Mariposa
San Mateo
Santa Clara
Merced
Madera
Inyo
Santa Cruz
San Benito
Fresno
SAN JOAQUIN VALLEY
Owens Valley
Coso Junction
Trona
NORTH CENTRAL COAST
Monterey
Kings
Tulare
San Luis Obispo
Kern
Indian Wells Valley
San Bernardino
SOUTH CENTRAL COAST
Santa Barbara
Ventura
Los Angeles
SOUTHEAST DESERT
Riverside
Coachella Valley
Orange
SOUTH COAST
Imperial
San Diego
SAN DIEGO COUNTY
Unclassified
Attainment
Nonattainment
Air Basin
County
Source Date:
October 2018
Air Quality Planning and Science Division

TABLE 12

National Ambient Air Quality Standards
Area Designations for Suspended Particulate Matter (PM10)*

	N	U	A		N	U	A
GREAT BASIN VALLEYS AIR BASIN				SAN DIEGO COUNTY		X	
Alpine County		X		SAN FRANCISCO BAY AREA AIR BASIN		X	
Inyo County				SAN JOAQUIN VALLEY AIR BASIN			X
- Owens Valley Planning Area	X			SOUTH CENTRAL COAST AIR BASIN		X	
- Coso Junction			X	SOUTH COAST AIR BASIN			X
- Remainder of County		X		SOUTHEAST DESERT AIR BASIN			
Mono County				Eastern Kern County			
- Mammoth Lake Planning Area			X	- Indian Wells Valley			X
- Mono Lake Basin	X			- Portion within San Joaquin Valley Planning Area	X		
- Remainder of County		X		- Remainder of County		X	
LAKE COUNTY AIR BASIN		X		Imperial County			
LAKE TAHOE AIR BASIN		X		- Imperial Valley Planning Area	X		
MOUNTAIN COUNTIES AIR BASIN				- Remainder of County		X	
Placer County (portion) (2)		X		Los Angeles County (portion)		X	
Remainder of Air Basin		X		Riverside County (portion)			
NORTH CENTRAL COAST AIR BASIN		X		- Coachella Valley (3)	X		
NORTH COAST AIR BASIN		X		- Non-AQMA portion		X	
NORTHEAST PLATEAU AIR BASIN		X		San Bernardino County			
SACRAMENTO VALLEY AIR BASIN				- Trona	X		
Butte County		X		- Remainder of County	X		
Colusa County		X					
Glenn County		X					
Placer County (portion) (2)		X					
Sacramento County (1)			X				
Shasta County		X					
Solano County (portion)		X					
Sutter County		X					
Tehama County		X					
Yolo County		X					
Yuba County		X					

* Definitions and references for all areas can be found in 40 CFR, Chapter I, Part 81.305.
(1) Air quality in Sacramento County meets the national PM10 standards. The request for redesignation to attainment was approved by U.S. EPA in September 2013.
(2) U.S. EPA designation puts the Sacramento Valley Air Basin portion of Placer County in the Mountain Counties Air Basin.
(3) Air quality in Coachella Valley meets the national PM10 standards. A request for redesignation to attainment has been submitted to U.S. EPA.

FIGURE 13


Area Designations for National Ambient Air Quality Standards PM2.5
N
0 50 100 150 200 Miles
Del Norte
Siskiyou
Modoc
NORTH COAST
NORTHEAST PLATEAU
Humboldt
Trinity
Shasta
Lassen
Tehama
SACRAMENTO VALLEY
Plumas
Glenn
Butte
Sierra
MOUNTAIN COUNTIES
Mendocino
Nevada
LAKE COUNTY
Colusa
Yuba
Placer
Lake
Sutter
LAKE TAHOE
El Dorado
Yolo
Sonoma
Napa
Sacramento
Alpine
Amador
Solano
Calaveras
SAN FRANCISCO BAY AREA
Marin
Tuolumne
GREAT BASIN VALLEYS
Contra Costa
San Joaquin
Mono
Alameda
Stanislaus
Mariposa
San Mateo
Santa Clara
Merced
Madera
Santa Cruz
Fresno
NORTH CENTRAL COAST
San Benito
SAN JOAQUIN VALLEY
Inyo
Tulare
Monterey
Kings
San Luis Obispo
Kern
SOUTH CENTRAL COAST
Santa Barbara
San Bernardino
SOUTHEAST DESERT
Ventura
Los Angeles
Orange
Riverside
SOUTH COAST
San Diego
Imperial
SAN DIEGO COUNTY
Unclassified/Attainment
Nonattainment
Air Basin
County
Source Date:
October 2018
Air Quality Planning and Science Division

TABLE 13

National Ambient Air Quality Standards
Area Designations for Fine Particulate Matter (PM2.5)*

	N	U/A		N	U/A
GREAT BASIN VALLEYS AIR BASIN		X	SAN DIEGO COUNTY		X
LAKE COUNTY AIR BASIN		X	SAN FRANCISCO BAY AREA AIR BASIN (2)	X	
LAKE TAHOE AIR BASIN		X	SAN JOAQUIN VALLEY AIR BASIN	X	
MOUNTAIN COUNTIES AIR BASIN			SOUTH CENTRAL COAST AIR BASIN		X
Plumas County			SOUTH COAST AIR BASIN (3)	X	
- Portola Valley Portion of Plumas	X		SOUTHEAST DESERT AIR BASIN		
- Remainder of Plumas County		X	Imperial County (portion) (4)	X	
Remainder of Air Basin		X	Remainder of Air Basin		X
NORTH CENTRAL COAST AIR BASIN		X			
NORTH COAST AIR BASIN		X			
NORTHEAST PLATEAU AIR BASIN		X			
SACRAMENTO VALLEY AIR BASIN					
Sacramento Metro Area (1)	X				
Sutter County		X			
Yuba County (portion)		X			
Remainder of Air Basin		X			

* Definitions and references for all areas can be found in 40 CFR, Chapter I, Part 81.305. This map reflects the 2006 24-hour PM2.5 standard as well as the 1997 and 2012 PM2.5 annual standards.

(1) For this purpose, Sacramento Metro Area comprises all of Sacramento and portions of El Dorado, Placer, Solano, and Yolo Counties. Air quality in this area meets the national PM2.5 standards. A Determination of Attainment for the 2006 24-hour PM2.5 standard was made by U.S. EPA in June 2017.

(2) Air quality in this area meets the national PM2.5 standards. A Determination of Attainment for the 2006 24-hour PM2.5 standard was made by U.S. EPA in June 2017.

(3) Those lands of the Santa Rosa Band of Cahulla Mission Indians in Riverside County are designated Unclassifiable/Attainment.

(4) That portion of Imperial County encompassing the urban and surrounding areas of Brawley, Calexico, El Centro, Heber, Holtville, Imperial, Seeley, and Westmorland. Air quality in this area meets the national PM2.5 standards. A Determination of Attainment for the 2006 24-hour PM2.5 standard was made by U.S. EPA in June 2017.

FIGURE 14


Area Designations for National Ambient Air Quality Standards
CARBON MONOXIDE
N
0 50 100 150 200 Miles
Del Norte
Siskiyou
Modoc
NORTHEAST PLATEAU
NORTH COAST
Shasta
Trinity
Lassen
Humboldt
Tehama
SACRAMENTO VALLEY
Plumas
Mendocino
Glenn
Butte
Sierra
MOUNTAIN COUNTIES
Nevada
Colusa
Lake
Sutter
Yuba
Placer
LAKE TAHOE
LAKE COUNTY
Yolo
El Dorado
Napa
Alpine
Sonoma
Sac
Amador
SAN FRANCISCO BAY AREA
Solano
Calaveras
Marin
San Joaquin
Contra Costa
Tuolumne
Mono
GREAT BASIN VALLEYS
San Francisco
Alameda
Stanislaus
Mariposa
San Mateo
Santa Clara
Merced
Santa Cruz
Madera
SAN JOAQUIN VALLEY
San Benito
Fresno
NORTH CENTRAL COAST
Inyo
Tulare
Monterey
Kings
San Luis Obispo
Kern
SOUTH CENTRAL COAST
SOUTHEAST DESERT
Santa Barbara
Ventura
Los Angeles
San Bernardino
Riverside
Orange
SOUTH COAST
San Diego
Imperial
SAN DIEGO COUNTY
Unclassified/Attainment
Air Basin
County
Source Date:
October 2018
Air Quality Planning and Science Division

TABLE 14

National Ambient Air Quality Standards
Area Designations for Carbon Monoxide*

	N	U/A		N	U/A
GREAT BASIN VALLEYS AIR BASIN		X	SACRAMENTO VALLEY AIR BASIN		X
LAKE COUNTY AIR BASIN		X	SAN DIEGO COUNTY		X
LAKE TAHOE AIR BASIN		X	SAN FRANCISCO BAY AREA AIR BASIN		X
MOUNTAIN COUNTIES AIR BASIN		X	SAN JOAQUIN VALLEY AIR BASIN		X
NORTH CENTRAL COAST AIR BASIN		X	SOUTH CENTRAL COAST AIR BASIN		X
NORTH COAST AIR BASIN		X	SOUTH COAST AIR BASIN		X
NORTHEAST PLATEAU AIR BASIN		X	SOUTHEAST DESERT AIR BASIN		X

* Definitions and references for all areas can be found in 40 CFR, Chapter I, Part 81.305.

FIGURE 15


Area Designations for National Ambient Air Quality Standards
NITROGEN DIOXIDE
N
0 50 100 150 200 Miles
Del Norte
Siskiyou
Modoc
NORTHEAST PLATEAU
NORTH COAST
Trinity
Shasta
Lassen
Humboldt
Tehema
Plumas
SACRAMENTO VALLEY
Mendocino
Glenn
Butte
Sierra
Nevada
MOUNTAIN COUNTIES
Colusa
Yuba
Placer
LAKE COUNTY
Lake
Sutter
LAKE TAHOE
Yolo
El Dorado
Napa
Alpine
Sonoma
Sac
Amador
SAN FRANCISCO BAY AREA
Solano
Marin
Calaveras
Contra Costa
San Joaquin
Tuolumne
Mono
GREAT BASIN VALLEYS
San Francisco
Alameda
Stanislaus
Mariposa
San Mateo
Santa Clara
Merced
Santa Cruz
Madera
SAN JOAQUIN VALLEY
San Benito
Fresno
NORTH CENTRAL COAST
Tulare
Inyo
Monterey
Kings
San Luis Obispo
Kern
SOUTH CENTRAL COAST
Santa Barbara
SOUTHEAST DESERT
Los Angeles
San Bernardino
Ventura
Riverside
Orange
SOUTH COAST
San Diego
Imperial
SAN DIEGO COUNTY
Unclassified/Attainment
Air Basin
County
Source Date:
October 2018
Air Quality Planning and Science Division

TABLE 15

National Ambient Air Quality Standards
Area Designations for Nitrogen Dioxide*

	N	U/A		N	U/A
GREAT BASIN VALLEYS AIR BASIN		X	SACRAMENTO VALLEY AIR BASIN		X
LAKE COUNTY AIR BASIN		X	SAN DIEGO COUNTY		X
LAKE TAHOE AIR BASIN		X	SAN FRANCISCO BAY AREA AIR BASIN		X
MOUNTAIN COUNTIES AIR BASIN		X	SAN JOAQUIN VALLEY AIR BASIN		X
NORTH CENTRAL COAST AIR BASIN		X	SOUTH CENTRAL COAST AIR BASIN		X
NORTH COAST AIR BASIN		X	SOUTH COAST AIR BASIN		X
NORTHEAST PLATEAU AIR BASIN		X	SOUTHEAST DESERT AIR BASIN		X

* Definitions and references for all areas can be found in 40 CFR, Chapter I, Part 81.305.

FIGURE 16



Source Date:
October 2018
Air Quality Planning and Science Division

TABLE 16

National Ambient Air Quality Standards
Area Designations for Sulfur Dioxide*

	N	U/A		N	U/A
GREAT BASIN VALLEYS AIR BASIN		X	SOUTH CENTRAL COAST AIR BASIN		
LAKE COUNTY AIR BASIN		X	San Luis Obispo County		X
LAKE TAHOE AIR BASIN		X	Santa Barbara County		X
MOUNTAIN COUNTIES AIR BASIN		X	Ventura County		X
NORTH CENTRAL COAST AIR BASIN		X	Channel Islands (1)		X
NORTH COAST AIR BASIN		X	SOUTH COAST AIR BASIN		X
NORTHEAST PLATEAU AIR BASIN		X	SOUTHEAST DESERT AIR BASIN		
SACRAMENTO VALLEY AIR BASIN		X	Imperial County		X
SAN DIEGO COUNTY		X	Remainder of Air Basin		X
SAN FRANCISCO BAY AREA AIR BASIN		X			
SAN JOAQUIN VALLEY AIR BASIN					
Fresno County		X			
Kern County (portion)		X			
Kings County		X			
Madera County		X			
Merced County		X			
San Joaquin County		X			
Stanislaus County		X			
Tulare County		X			

* Definitions and references for all areas can be found in 40 CFR, Chapter I, Part 81.305.

NOTE: This map and table reflect the 2010 1-hour SO_2 standard of 75 ppb.

(1) South Central Coast Air Basin Channel Islands:

Santa Barbara County includes Santa Cruz, San Miguel, Santa Rosa, and Santa Barbara Islands.

Ventura County includes Anacapa and San Nicolas Islands.

Note that the San Clemente and Santa Catalina Islands are considered part of Los Angeles County, and therefore, are included as part of the South Coast Air Basin.

FIGURE 17


Area Designations for National Ambient Air Quality Standards
LEAD
N
0 50 100 150 200
Miles
Del Norte
Siskiyou
Modoc
NORTHEAST PLATEAU
NORTH COAST
Shasta
Lassen
Trinity
Humboldt
Tehama
SACRAMENTO VALLEY
Plumas
Mendocino
Glenn
Butte
Sierra
MOUNTAIN COUNTIES
Nevada
Colusa
Lake
Sutter
Yuba
Placer
LAKE TAHOE
LAKE COUNTY
Yolo
El Dorado
Napa
Alpine
Sonoma
Sac
Amador
SAN FRANCISCO BAY AREA
Solano
Calaveras
Marin
San Joaquin
Contra Costa
Tuolumne
Mono
GREAT BASIN VALLEYS
San Francisco
Alameda
Stanislaus
Mariposa
San Mateo
Santa Clara
Merced
Santa Cruz
Madera
SAN JOAQUIN VALLEY
San Benito
Fresno
NORTH CENTRAL COAST
Inyo
Tulare
Monterey
Kings
San Luis Obispo
Kern
SOUTH CENTRAL COAST
SOUTHEAST DESERT
Santa Barbara
Ventura
Los Angeles
San Bernardino
Riverside
Orange
SOUTH COAST
San Diego
Imperial
SAN DIEGO COUNTY
Unclassified/Attainment
Nonattainment
Air Basin
County
Source Date:
October 2018
Air Quality Planning and Science Division

TABLE 17

National Ambient Air Quality Standards
Area Designations for Lead (particulate)

	N	U/A		N	U/A
GREAT BASIN VALLEYS AIR BASIN		X	SAN DIEGO COUNTY		X
LAKE COUNTY AIR BASIN		X	SAN FRANCISCO BAY AREA AIR BASIN		X
LAKE TAHOE AIR BASIN		X	SAN JOAQUIN VALLEY AIR BASIN		X
MOUNTAIN COUNTIES AIR BASIN		X	SOUTH CENTRAL COAST AIR BASIN		X
NORTH CENTRAL COAST AIR BASIN		X	SOUTH COAST AIR BASIN		
NORTH COAST AIR BASIN		X	Los Angeles County (portion) (1)	X	
NORTHEAST PLATEAU AIR BASIN		X	Remainder of Air Basin		X
SACRAMENTO VALLEY AIR BASIN		X	SOUTHEAST DESERT AIR BASIN		X

(1) Portion of County in Air Basin, not including Channel Islands

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APPENDIX 3.1:

CALEEMOD CONSTRUCTION (UNMITIGATED) EMISSIONS MODEL OUTPUTS

Fontana Foothills Commerce Center (Construction - Unmitigated)

San Bernardino-South Coast County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Unrefrigerated Warehouse-No Rail	754.41	1000sqft	17.32	754,408.00	0
Other Asphalt Surfaces	415.94	1000sqft	9.55	415,944.00	0
Other Non-Asphalt Surfaces	132.59	1000sqft	3.04	132,592.00	0
Parking Lot	404.00	Space	3.71	161,600.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	32
Climate Zone	10			**Operational Year**	2022
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	702.44	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - Unrefrigerated Warehouse - No Rail = High-Cube Short-Term Warehouse; Parking Lot = 404 Standard Spaces; Other Non-Asphalt Surfaces = Landscape area; Other Asphalt Surfaces = Balance

Construction Phase - Construction Schedule adjusted per information provided by the Project Applicant.

Off-road Equipment - Hours are based on an 8-hour workday.

Off-road Equipment - Crawler Tractors used in lieu of Tractors/Loaders/Backhoes.

Off-road Equipment - Crawler Tractors used in lieu of Tractors/Loaders/Backhoes.

Off-road Equipment -

Off-road Equipment - Crawler Tractors used in lieu of Tractors/Loaders/Backhoes.

Demolition -

Grading - For purposes of analysis, total acres graded per day is based on the equipment specific grading rates (CalEEMod Appendix A) and the equipment list.

Architectural Coating - Rule 1113

Vehicle Trips - Construction Run Only.

Energy Use - Construction Run Only.

Water And Wastewater - Construction Run Only.

Solid Waste - Construction Run Only.

Construction Off-road Equipment Mitigation - Rule 403

Vehicle Emission Factors - EMFAC2017

Vehicle Emission Factors - EMFAC2017

Vehicle Emission Factors - EMFAC2017

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	100.00	50.00
tblArchitecturalCoating	EF_Nonresidential_Interior	100.00	50.00
tblConstructionPhase	NumDays	500.00	180.00
tblConstructionPhase	NumDays	35.00	70.00
tblEnergyUse	LightingElect	0.35	0.00
tblEnergyUse	LightingElect	1.17	0.00

tblEnergyUse	NT24E	0.82	0.00
tblEnergyUse	NT24NG	0.03	0.00
tblEnergyUse	T24E	0.37	0.00
tblEnergyUse	T24NG	2.00	0.00
tblGrading	AcresOfGrading	157.50	180.00
tblGrading	AcresOfGrading	40.00	70.00
tblLandUse	LotAcreage	3.64	3.71
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblSolidWaste	SolidWasteGenerationRate	709.15	0.00
tblVehicleEF	HHD	1.21	0.03
tblVehicleEF	HHD	0.04	0.06
tblVehicleEF	HHD	0.10	0.00
tblVehicleEF	HHD	3.29	8.22
tblVehicleEF	HHD	0.57	0.40
tblVehicleEF	HHD	1.82	2.2600e-003
tblVehicleEF	HHD	6,933.41	1,478.27
tblVehicleEF	HHD	1,475.79	1,372.23
tblVehicleEF	HHD	5.54	0.02
tblVehicleEF	HHD	26.50	7.64
tblVehicleEF	HHD	2.50	2.77
tblVehicleEF	HHD	9.7780e-003	3.7640e-003
tblVehicleEF	HHD	0.06	0.06

tblVehicleEF	HHD	0.04	0.04
tblVehicleEF	HHD	0.01	0.03
tblVehicleEF	HHD	5.1000e-005	1.0000e-006
tblVehicleEF	HHD	9.3550e-003	3.6010e-003
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	8.8810e-003	8.9170e-003
tblVehicleEF	HHD	0.01	0.03
tblVehicleEF	HHD	4.7000e-005	1.0000e-006
tblVehicleEF	HHD	8.5000e-005	3.0000e-006
tblVehicleEF	HHD	3.1910e-003	1.0400e-004
tblVehicleEF	HHD	0.84	0.59
tblVehicleEF	HHD	5.2000e-005	2.0000e-006
tblVehicleEF	HHD	0.08	0.05
tblVehicleEF	HHD	2.1700e-004	5.2200e-004
tblVehicleEF	HHD	0.05	1.0000e-006
tblVehicleEF	HHD	0.07	0.01
tblVehicleEF	HHD	0.01	0.01
tblVehicleEF	HHD	8.6000e-005	0.00
tblVehicleEF	HHD	8.5000e-005	3.0000e-006
tblVehicleEF	HHD	3.1910e-003	1.0400e-004
tblVehicleEF	HHD	0.97	0.67
tblVehicleEF	HHD	5.2000e-005	2.0000e-006
tblVehicleEF	HHD	0.13	0.12
tblVehicleEF	HHD	2.1700e-004	5.2200e-004
tblVehicleEF	HHD	0.06	1.0000e-006
tblVehicleEF	HHD	1.14	0.03
tblVehicleEF	HHD	0.04	0.06

tblVehicleEF	HHD	0.09	0.00
tblVehicleEF	HHD	2.39	8.07
tblVehicleEF	HHD	0.57	0.40
tblVehicleEF	HHD	1.70	2.1220e-003
tblVehicleEF	HHD	7,345.18	1,469.16
tblVehicleEF	HHD	1,475.79	1,372.23
tblVehicleEF	HHD	5.54	0.02
tblVehicleEF	HHD	27.35	7.37
tblVehicleEF	HHD	2.36	2.60
tblVehicleEF	HHD	8.2750e-003	3.3440e-003
tblVehicleEF	HHD	0.06	0.06
tblVehicleEF	HHD	0.04	0.04
tblVehicleEF	HHD	0.01	0.03
tblVehicleEF	HHD	5.1000e-005	1.0000e-006
tblVehicleEF	HHD	7.9170e-003	3.2000e-003
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	8.8810e-003	8.9170e-003
tblVehicleEF	HHD	0.01	0.03
tblVehicleEF	HHD	4.7000e-005	1.0000e-006
tblVehicleEF	HHD	1.6800e-004	7.0000e-006
tblVehicleEF	HHD	3.5970e-003	1.2200e-004
tblVehicleEF	HHD	0.79	0.62
tblVehicleEF	HHD	1.1700e-004	5.0000e-006
tblVehicleEF	HHD	0.08	0.05
tblVehicleEF	HHD	2.2100e-004	5.3900e-004
tblVehicleEF	HHD	0.05	1.0000e-006
tblVehicleEF	HHD	0.07	0.01

tblVehicleEF	HHD	0.01	0.01
tblVehicleEF	HHD	8.4000e-005	0.00
tblVehicleEF	HHD	1.6800e-004	7.0000e-006
tblVehicleEF	HHD	3.5970e-003	1.2200e-004
tblVehicleEF	HHD	0.91	0.71
tblVehicleEF	HHD	1.1700e-004	5.0000e-006
tblVehicleEF	HHD	0.13	0.12
tblVehicleEF	HHD	2.2100e-004	5.3900e-004
tblVehicleEF	HHD	0.06	1.0000e-006
tblVehicleEF	HHD	1.31	0.03
tblVehicleEF	HHD	0.04	2.3610e-003
tblVehicleEF	HHD	0.10	0.00
tblVehicleEF	HHD	4.53	8.37
tblVehicleEF	HHD	0.57	0.25
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tblVehicleEF	HHD	6,364.76	1,476.72
tblVehicleEF	HHD	1,475.79	1,332.53
tblVehicleEF	HHD	5.54	0.02
tblVehicleEF	HHD	25.32	7.94
tblVehicleEF	HHD	2.46	2.69
tblVehicleEF	HHD	0.01	4.1670e-003
tblVehicleEF	HHD	0.06	0.06
tblVehicleEF	HHD	0.04	0.04
tblVehicleEF	HHD	0.01	0.03
tblVehicleEF	HHD	5.1000e-005	1.0000e-006
tblVehicleEF	HHD	0.01	3.9860e-003
tblVehicleEF	HHD	0.03	0.03

tblVehicleEF	HHD	8.8810e-003	8.8160e-003
tblVehicleEF	HHD	0.01	0.03
tblVehicleEF	HHD	4.7000e-005	1.0000e-006
tblVehicleEF	HHD	8.5000e-005	4.0000e-006
tblVehicleEF	HHD	3.4760e-003	1.2300e-004
tblVehicleEF	HHD	0.91	0.54
tblVehicleEF	HHD	5.2000e-005	2.0000e-006
tblVehicleEF	HHD	0.08	0.05
tblVehicleEF	HHD	2.3300e-004	5.4600e-004
tblVehicleEF	HHD	0.05	1.0000e-006
tblVehicleEF	HHD	0.06	0.01
tblVehicleEF	HHD	0.01	0.01
tblVehicleEF	HHD	8.5000e-005	0.00
tblVehicleEF	HHD	8.5000e-005	4.0000e-006
tblVehicleEF	HHD	3.4760e-003	1.2300e-004
tblVehicleEF	HHD	1.05	0.62
tblVehicleEF	HHD	5.2000e-005	2.0000e-006
tblVehicleEF	HHD	0.13	0.06
tblVehicleEF	HHD	2.3300e-004	5.4600e-004
tblVehicleEF	HHD	0.06	1.0000e-006
tblVehicleEF	LDA	4.2030e-003	2.4360e-003
tblVehicleEF	LDA	5.6230e-003	0.05
tblVehicleEF	LDA	0.57	0.65
tblVehicleEF	LDA	1.19	2.16
tblVehicleEF	LDA	251.29	261.47
tblVehicleEF	LDA	57.15	53.86
tblVehicleEF	LDA	0.05	0.04

tblVehicleEF	LDA	1.6780e-003	1.4470e-003
tblVehicleEF	LDA	2.2790e-003	1.8580e-003
tblVehicleEF	LDA	1.5460e-003	1.3330e-003
tblVehicleEF	LDA	2.0960e-003	1.7080e-003
tblVehicleEF	LDA	0.04	0.06
tblVehicleEF	LDA	0.10	0.10
tblVehicleEF	LDA	0.03	0.05
tblVehicleEF	LDA	0.01	9.3320e-003
tblVehicleEF	LDA	0.03	0.21
tblVehicleEF	LDA	0.08	0.23
tblVehicleEF	LDA	2.5170e-003	2.5870e-003
tblVehicleEF	LDA	5.9200e-004	5.3300e-004
tblVehicleEF	LDA	0.04	0.06
tblVehicleEF	LDA	0.10	0.10
tblVehicleEF	LDA	0.03	0.05
tblVehicleEF	LDA	0.02	0.01
tblVehicleEF	LDA	0.03	0.21
tblVehicleEF	LDA	0.08	0.25
tblVehicleEF	LDA	4.7900e-003	2.7940e-003
tblVehicleEF	LDA	4.6890e-003	0.04
tblVehicleEF	LDA	0.71	0.79
tblVehicleEF	LDA	0.99	1.79
tblVehicleEF	LDA	274.94	285.54
tblVehicleEF	LDA	57.15	53.16
tblVehicleEF	LDA	0.05	0.04
tblVehicleEF	LDA	1.6780e-003	1.4470e-003
tblVehicleEF	LDA	2.2790e-003	1.8580e-003

tblVehicleEF	LDA	1.5460e-003	1.3330e-003
tblVehicleEF	LDA	2.0960e-003	1.7080e-003
tblVehicleEF	LDA	0.09	0.12
tblVehicleEF	LDA	0.12	0.12
tblVehicleEF	LDA	0.07	0.10
tblVehicleEF	LDA	0.01	0.01
tblVehicleEF	LDA	0.03	0.21
tblVehicleEF	LDA	0.06	0.19
tblVehicleEF	LDA	2.7550e-003	2.8250e-003
tblVehicleEF	LDA	5.8800e-004	5.2600e-004
tblVehicleEF	LDA	0.09	0.12
tblVehicleEF	LDA	0.12	0.12
tblVehicleEF	LDA	0.07	0.10
tblVehicleEF	LDA	0.02	0.02
tblVehicleEF	LDA	0.03	0.21
tblVehicleEF	LDA	0.07	0.21
tblVehicleEF	LDA	4.0860e-003	2.3760e-003
tblVehicleEF	LDA	5.5870e-003	0.05
tblVehicleEF	LDA	0.54	0.61
tblVehicleEF	LDA	1.18	2.12
tblVehicleEF	LDA	245.70	255.84
tblVehicleEF	LDA	57.15	53.80
tblVehicleEF	LDA	0.05	0.04
tblVehicleEF	LDA	1.6780e-003	1.4470e-003
tblVehicleEF	LDA	2.2790e-003	1.8580e-003
tblVehicleEF	LDA	1.5460e-003	1.3330e-003
tblVehicleEF	LDA	2.0960e-003	1.7080e-003

tblVehicleEF	LDA	0.05	0.06
tblVehicleEF	LDA	0.11	0.11
tblVehicleEF	LDA	0.03	0.05
tblVehicleEF	LDA	0.01	9.0880e-003
tblVehicleEF	LDA	0.04	0.24
tblVehicleEF	LDA	0.08	0.23
tblVehicleEF	LDA	2.4600e-003	2.5310e-003
tblVehicleEF	LDA	5.9100e-004	5.3200e-004
tblVehicleEF	LDA	0.05	0.06
tblVehicleEF	LDA	0.11	0.11
tblVehicleEF	LDA	0.03	0.05
tblVehicleEF	LDA	0.01	0.01
tblVehicleEF	LDA	0.04	0.24
tblVehicleEF	LDA	0.08	0.25
tblVehicleEF	LDT1	0.01	7.0610e-003
tblVehicleEF	LDT1	0.02	0.08
tblVehicleEF	LDT1	1.54	1.44
tblVehicleEF	LDT1	3.61	2.44
tblVehicleEF	LDT1	313.68	310.02
tblVehicleEF	LDT1	70.93	65.50
tblVehicleEF	LDT1	0.16	0.13
tblVehicleEF	LDT1	2.7050e-003	2.1940e-003
tblVehicleEF	LDT1	3.6920e-003	2.8520e-003
tblVehicleEF	LDT1	2.4910e-003	2.0190e-003
tblVehicleEF	LDT1	3.3960e-003	2.6220e-003
tblVehicleEF	LDT1	0.18	0.19
tblVehicleEF	LDT1	0.33	0.26

tblVehicleEF	LDT1	0.13	0.13
tblVehicleEF	LDT1	0.03	0.03
tblVehicleEF	LDT1	0.20	0.88
tblVehicleEF	LDT1	0.26	0.43
tblVehicleEF	LDT1	3.1570e-003	3.0680e-003
tblVehicleEF	LDT1	7.7300e-004	6.4800e-004
tblVehicleEF	LDT1	0.18	0.19
tblVehicleEF	LDT1	0.33	0.26
tblVehicleEF	LDT1	0.13	0.13
tblVehicleEF	LDT1	0.05	0.05
tblVehicleEF	LDT1	0.20	0.88
tblVehicleEF	LDT1	0.28	0.48
tblVehicleEF	LDT1	0.02	8.0100e-003
tblVehicleEF	LDT1	0.02	0.07
tblVehicleEF	LDT1	1.85	1.74
tblVehicleEF	LDT1	2.97	2.02
tblVehicleEF	LDT1	341.75	335.16
tblVehicleEF	LDT1	70.93	64.59
tblVehicleEF	LDT1	0.14	0.12
tblVehicleEF	LDT1	2.7050e-003	2.1940e-003
tblVehicleEF	LDT1	3.6920e-003	2.8520e-003
tblVehicleEF	LDT1	2.4910e-003	2.0190e-003
tblVehicleEF	LDT1	3.3960e-003	2.6220e-003
tblVehicleEF	LDT1	0.37	0.40
tblVehicleEF	LDT1	0.41	0.33
tblVehicleEF	LDT1	0.27	0.29
tblVehicleEF	LDT1	0.04	0.04

tblVehicleEF	LDT1	0.20	0.88
tblVehicleEF	LDT1	0.21	0.36
tblVehicleEF	LDT1	3.4420e-003	3.3170e-003
tblVehicleEF	LDT1	7.6200e-004	6.3900e-004
tblVehicleEF	LDT1	0.37	0.40
tblVehicleEF	LDT1	0.41	0.33
tblVehicleEF	LDT1	0.27	0.29
tblVehicleEF	LDT1	0.06	0.05
tblVehicleEF	LDT1	0.20	0.88
tblVehicleEF	LDT1	0.23	0.40
tblVehicleEF	LDT1	0.01	6.8960e-003
tblVehicleEF	LDT1	0.02	0.08
tblVehicleEF	LDT1	1.47	1.37
tblVehicleEF	LDT1	3.55	2.40
tblVehicleEF	LDT1	307.06	304.06
tblVehicleEF	LDT1	70.93	65.42
tblVehicleEF	LDT1	0.15	0.12
tblVehicleEF	LDT1	2.7050e-003	2.1940e-003
tblVehicleEF	LDT1	3.6920e-003	2.8520e-003
tblVehicleEF	LDT1	2.4910e-003	2.0190e-003
tblVehicleEF	LDT1	3.3960e-003	2.6220e-003
tblVehicleEF	LDT1	0.19	0.20
tblVehicleEF	LDT1	0.39	0.30
tblVehicleEF	LDT1	0.12	0.12
tblVehicleEF	LDT1	0.03	0.03
tblVehicleEF	LDT1	0.23	1.03
tblVehicleEF	LDT1	0.25	0.43

tblVehicleEF	LDT1	3.0890e-003	3.0090e-003
tblVehicleEF	LDT1	7.7200e-004	6.4700e-004
tblVehicleEF	LDT1	0.19	0.20
tblVehicleEF	LDT1	0.39	0.30
tblVehicleEF	LDT1	0.12	0.12
tblVehicleEF	LDT1	0.05	0.04
tblVehicleEF	LDT1	0.23	1.03
tblVehicleEF	LDT1	0.28	0.47
tblVehicleEF	LDT2	6.3270e-003	4.2800e-003
tblVehicleEF	LDT2	8.1990e-003	0.07
tblVehicleEF	LDT2	0.80	0.97
tblVehicleEF	LDT2	1.67	2.78
tblVehicleEF	LDT2	351.15	331.49
tblVehicleEF	LDT2	79.39	70.30
tblVehicleEF	LDT2	0.09	0.09
tblVehicleEF	LDT2	1.7270e-003	1.5180e-003
tblVehicleEF	LDT2	2.4170e-003	1.9480e-003
tblVehicleEF	LDT2	1.5880e-003	1.3970e-003
tblVehicleEF	LDT2	2.2220e-003	1.7910e-003
tblVehicleEF	LDT2	0.06	0.10
tblVehicleEF	LDT2	0.13	0.15
tblVehicleEF	LDT2	0.05	0.08
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.07	0.48
tblVehicleEF	LDT2	0.11	0.35
tblVehicleEF	LDT2	3.5180e-003	3.2800e-003
tblVehicleEF	LDT2	8.2200e-004	6.9600e-004

tblVehicleEF	LDT2	0.06	0.10
tblVehicleEF	LDT2	0.13	0.15
tblVehicleEF	LDT2	0.05	0.08
tblVehicleEF	LDT2	0.02	0.03
tblVehicleEF	LDT2	0.07	0.48
tblVehicleEF	LDT2	0.12	0.38
tblVehicleEF	LDT2	7.1840e-003	4.8870e-003
tblVehicleEF	LDT2	6.8290e-003	0.06
tblVehicleEF	LDT2	0.97	1.18
tblVehicleEF	LDT2	1.38	2.30
tblVehicleEF	LDT2	383.36	355.94
tblVehicleEF	LDT2	79.39	69.35
tblVehicleEF	LDT2	0.08	0.08
tblVehicleEF	LDT2	1.7270e-003	1.5180e-003
tblVehicleEF	LDT2	2.4170e-003	1.9480e-003
tblVehicleEF	LDT2	1.5880e-003	1.3970e-003
tblVehicleEF	LDT2	2.2220e-003	1.7910e-003
tblVehicleEF	LDT2	0.13	0.21
tblVehicleEF	LDT2	0.15	0.18
tblVehicleEF	LDT2	0.11	0.18
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.07	0.48
tblVehicleEF	LDT2	0.09	0.29
tblVehicleEF	LDT2	3.8420e-003	3.5220e-003
tblVehicleEF	LDT2	8.1700e-004	6.8600e-004
tblVehicleEF	LDT2	0.13	0.21
tblVehicleEF	LDT2	0.15	0.18

tblVehicleEF	LDT2	0.11	0.18
tblVehicleEF	LDT2	0.03	0.03
tblVehicleEF	LDT2	0.07	0.48
tblVehicleEF	LDT2	0.10	0.32
tblVehicleEF	LDT2	6.1560e-003	4.1770e-003
tblVehicleEF	LDT2	8.1410e-003	0.07
tblVehicleEF	LDT2	0.75	0.92
tblVehicleEF	LDT2	1.64	2.74
tblVehicleEF	LDT2	343.55	325.69
tblVehicleEF	LDT2	79.39	70.22
tblVehicleEF	LDT2	0.08	0.09
tblVehicleEF	LDT2	1.7270e-003	1.5180e-003
tblVehicleEF	LDT2	2.4170e-003	1.9480e-003
tblVehicleEF	LDT2	1.5880e-003	1.3970e-003
tblVehicleEF	LDT2	2.2220e-003	1.7910e-003
tblVehicleEF	LDT2	0.06	0.10
tblVehicleEF	LDT2	0.14	0.16
tblVehicleEF	LDT2	0.05	0.08
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.08	0.56
tblVehicleEF	LDT2	0.11	0.35
tblVehicleEF	LDT2	3.4410e-003	3.2220e-003
tblVehicleEF	LDT2	8.2200e-004	6.9500e-004
tblVehicleEF	LDT2	0.06	0.10
tblVehicleEF	LDT2	0.14	0.16
tblVehicleEF	LDT2	0.05	0.08
tblVehicleEF	LDT2	0.02	0.03

tblVehicleEF	LDT2	0.08	0.56
tblVehicleEF	LDT2	0.12	0.38
tblVehicleEF	LHD1	5.2170e-003	4.8640e-003
tblVehicleEF	LHD1	0.01	6.5090e-003
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	0.14	0.17
tblVehicleEF	LHD1	1.07	0.88
tblVehicleEF	LHD1	2.60	1.03
tblVehicleEF	LHD1	9.23	9.35
tblVehicleEF	LHD1	609.20	648.62
tblVehicleEF	LHD1	30.40	10.79
tblVehicleEF	LHD1	0.09	0.08
tblVehicleEF	LHD1	2.12	1.54
tblVehicleEF	LHD1	9.6500e-004	9.5300e-004
tblVehicleEF	LHD1	0.01	9.9680e-003
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	9.5800e-004	2.6300e-004
tblVehicleEF	LHD1	9.2400e-004	9.1200e-004
tblVehicleEF	LHD1	2.5390e-003	2.4920e-003
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	8.8100e-004	2.4200e-004
tblVehicleEF	LHD1	3.7070e-003	3.1750e-003
tblVehicleEF	LHD1	0.11	0.09
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	1.8240e-003	1.5420e-003
tblVehicleEF	LHD1	0.08	0.07
tblVehicleEF	LHD1	0.35	0.60

tblVehicleEF	LHD1	0.27	0.08
tblVehicleEF	LHD1	9.2000e-005	9.0000e-005
tblVehicleEF	LHD1	5.9760e-003	6.3130e-003
tblVehicleEF	LHD1	3.5300e-004	1.0700e-004
tblVehicleEF	LHD1	3.7070e-003	3.1750e-003
tblVehicleEF	LHD1	0.11	0.09
tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	1.8240e-003	1.5420e-003
tblVehicleEF	LHD1	0.10	0.08
tblVehicleEF	LHD1	0.35	0.60
tblVehicleEF	LHD1	0.29	0.09
tblVehicleEF	LHD1	5.2170e-003	4.8790e-003
tblVehicleEF	LHD1	0.01	6.6670e-003
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	0.14	0.17
tblVehicleEF	LHD1	1.09	0.90
tblVehicleEF	LHD1	2.43	0.97
tblVehicleEF	LHD1	9.23	9.35
tblVehicleEF	LHD1	609.20	648.66
tblVehicleEF	LHD1	30.40	10.67
tblVehicleEF	LHD1	0.09	0.08
tblVehicleEF	LHD1	1.98	1.44
tblVehicleEF	LHD1	9.6500e-004	9.5300e-004
tblVehicleEF	LHD1	0.01	9.9680e-003
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	9.5800e-004	2.6300e-004
tblVehicleEF	LHD1	9.2400e-004	9.1200e-004

tblVehicleEF	LHD1	2.5390e-003	2.4920e-003
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	8.8100e-004	2.4200e-004
tblVehicleEF	LHD1	7.3080e-003	6.2980e-003
tblVehicleEF	LHD1	0.13	0.11
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	4.1220e-003	3.5370e-003
tblVehicleEF	LHD1	0.09	0.07
tblVehicleEF	LHD1	0.36	0.60
tblVehicleEF	LHD1	0.25	0.08
tblVehicleEF	LHD1	9.2000e-005	9.0000e-005
tblVehicleEF	LHD1	5.9770e-003	6.3140e-003
tblVehicleEF	LHD1	3.5000e-004	1.0600e-004
tblVehicleEF	LHD1	7.3080e-003	6.2980e-003
tblVehicleEF	LHD1	0.13	0.11
tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	4.1220e-003	3.5370e-003
tblVehicleEF	LHD1	0.11	0.09
tblVehicleEF	LHD1	0.36	0.60
tblVehicleEF	LHD1	0.28	0.08
tblVehicleEF	LHD1	5.2170e-003	4.8670e-003
tblVehicleEF	LHD1	0.01	6.5250e-003
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	0.14	0.17
tblVehicleEF	LHD1	1.07	0.89
tblVehicleEF	LHD1	2.55	1.02
tblVehicleEF	LHD1	9.23	9.35

tblVehicleEF	LHD1	609.20	648.63
tblVehicleEF	LHD1	30.40	10.76
tblVehicleEF	LHD1	0.09	0.08
tblVehicleEF	LHD1	2.08	1.51
tblVehicleEF	LHD1	9.6500e-004	9.5300e-004
tblVehicleEF	LHD1	0.01	9.9680e-003
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	9.5800e-004	2.6300e-004
tblVehicleEF	LHD1	9.2400e-004	9.1200e-004
tblVehicleEF	LHD1	2.5390e-003	2.4920e-003
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	8.8100e-004	2.4200e-004
tblVehicleEF	LHD1	4.0430e-003	3.5090e-003
tblVehicleEF	LHD1	0.13	0.10
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	1.7940e-003	1.5200e-003
tblVehicleEF	LHD1	0.08	0.07
tblVehicleEF	LHD1	0.38	0.64
tblVehicleEF	LHD1	0.26	0.08
tblVehicleEF	LHD1	9.2000e-005	9.0000e-005
tblVehicleEF	LHD1	5.9760e-003	6.3130e-003
tblVehicleEF	LHD1	3.5200e-004	1.0600e-004
tblVehicleEF	LHD1	4.0430e-003	3.5090e-003
tblVehicleEF	LHD1	0.13	0.10
tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	1.7940e-003	1.5200e-003
tblVehicleEF	LHD1	0.10	0.08

tblVehicleEF	LHD1	0.38	0.64
tblVehicleEF	LHD1	0.29	0.09
tblVehicleEF	LHD2	3.5950e-003	3.3090e-003
tblVehicleEF	LHD2	4.6110e-003	4.1580e-003
tblVehicleEF	LHD2	8.1370e-003	9.5080e-003
tblVehicleEF	LHD2	0.12	0.14
tblVehicleEF	LHD2	0.50	0.56
tblVehicleEF	LHD2	1.20	0.61
tblVehicleEF	LHD2	14.27	14.55
tblVehicleEF	LHD2	608.52	648.96
tblVehicleEF	LHD2	24.46	7.78
tblVehicleEF	LHD2	0.11	0.11
tblVehicleEF	LHD2	1.49	1.65
tblVehicleEF	LHD2	1.2830e-003	1.4030e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	4.0000e-004	1.2600e-004
tblVehicleEF	LHD2	1.2280e-003	1.3430e-003
tblVehicleEF	LHD2	2.6860e-003	2.6930e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	3.6800e-004	1.1600e-004
tblVehicleEF	LHD2	1.3070e-003	1.5580e-003
tblVehicleEF	LHD2	0.04	0.05
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	7.0300e-004	8.0000e-004
tblVehicleEF	LHD2	0.06	0.06
tblVehicleEF	LHD2	0.09	0.29

tblVehicleEF	LHD2	0.11	0.05
tblVehicleEF	LHD2	5.9200e-003	6.2610e-003
tblVehicleEF	LHD2	2.6700e-004	7.7000e-005
tblVehicleEF	LHD2	1.3070e-003	1.5580e-003
tblVehicleEF	LHD2	0.04	0.05
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	7.0300e-004	8.0000e-004
tblVehicleEF	LHD2	0.07	0.07
tblVehicleEF	LHD2	0.09	0.29
tblVehicleEF	LHD2	0.12	0.05
tblVehicleEF	LHD2	3.5950e-003	3.3190e-003
tblVehicleEF	LHD2	4.6760e-003	4.2030e-003
tblVehicleEF	LHD2	7.7630e-003	9.0810e-003
tblVehicleEF	LHD2	0.12	0.14
tblVehicleEF	LHD2	0.50	0.56
tblVehicleEF	LHD2	1.13	0.57
tblVehicleEF	LHD2	14.27	14.55
tblVehicleEF	LHD2	608.52	648.97
tblVehicleEF	LHD2	24.46	7.71
tblVehicleEF	LHD2	0.11	0.11
tblVehicleEF	LHD2	1.40	1.55
tblVehicleEF	LHD2	1.2830e-003	1.4030e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	4.0000e-004	1.2600e-004
tblVehicleEF	LHD2	1.2280e-003	1.3430e-003
tblVehicleEF	LHD2	2.6860e-003	2.6930e-003

tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	3.6800e-004	1.1600e-004
tblVehicleEF	LHD2	2.5220e-003	3.0280e-003
tblVehicleEF	LHD2	0.04	0.06
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	1.5220e-003	1.7650e-003
tblVehicleEF	LHD2	0.06	0.06
tblVehicleEF	LHD2	0.09	0.29
tblVehicleEF	LHD2	0.10	0.04
tblVehicleEF	LHD2	5.9200e-003	6.2610e-003
tblVehicleEF	LHD2	2.6500e-004	7.6000e-005
tblVehicleEF	LHD2	2.5220e-003	3.0280e-003
tblVehicleEF	LHD2	0.04	0.06
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	1.5220e-003	1.7650e-003
tblVehicleEF	LHD2	0.07	0.07
tblVehicleEF	LHD2	0.09	0.29
tblVehicleEF	LHD2	0.11	0.05
tblVehicleEF	LHD2	3.5950e-003	3.3110e-003
tblVehicleEF	LHD2	4.6180e-003	4.1630e-003
tblVehicleEF	LHD2	8.0640e-003	9.4270e-003
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tblVehicleEF	LHD2	0.50	0.56
tblVehicleEF	LHD2	1.19	0.60
tblVehicleEF	LHD2	14.27	14.55
tblVehicleEF	LHD2	608.52	648.96
tblVehicleEF	LHD2	24.46	7.77

tblVehicleEF	LHD2	0.11	0.11
tblVehicleEF	LHD2	1.46	1.62
tblVehicleEF	LHD2	1.2830e-003	1.4030e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	4.0000e-004	1.2600e-004
tblVehicleEF	LHD2	1.2280e-003	1.3430e-003
tblVehicleEF	LHD2	2.6860e-003	2.6930e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	3.6800e-004	1.1600e-004
tblVehicleEF	LHD2	1.3460e-003	1.6400e-003
tblVehicleEF	LHD2	0.04	0.05
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	6.8700e-004	7.8100e-004
tblVehicleEF	LHD2	0.06	0.06
tblVehicleEF	LHD2	0.10	0.31
tblVehicleEF	LHD2	0.11	0.05
tblVehicleEF	LHD2	5.9200e-003	6.2610e-003
tblVehicleEF	LHD2	2.6600e-004	7.7000e-005
tblVehicleEF	LHD2	1.3460e-003	1.6400e-003
tblVehicleEF	LHD2	0.04	0.05
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	6.8700e-004	7.8100e-004
tblVehicleEF	LHD2	0.07	0.07
tblVehicleEF	LHD2	0.10	0.31
tblVehicleEF	LHD2	0.12	0.05
tblVehicleEF	MCY	0.43	0.33

tblVehicleEF	MCY	0.16	0.25
tblVehicleEF	MCY	20.55	20.74
tblVehicleEF	MCY	9.93	8.78
tblVehicleEF	MCY	167.73	210.98
tblVehicleEF	MCY	46.45	61.55
tblVehicleEF	MCY	1.16	1.17
tblVehicleEF	MCY	1.8610e-003	1.8280e-003
tblVehicleEF	MCY	3.6730e-003	3.0520e-003
tblVehicleEF	MCY	1.7420e-003	1.7110e-003
tblVehicleEF	MCY	3.4650e-003	2.8770e-003
tblVehicleEF	MCY	1.45	1.44
tblVehicleEF	MCY	0.84	0.84
tblVehicleEF	MCY	0.80	0.80
tblVehicleEF	MCY	2.23	2.23
tblVehicleEF	MCY	0.49	2.04
tblVehicleEF	MCY	2.16	1.90
tblVehicleEF	MCY	2.0770e-003	2.0880e-003
tblVehicleEF	MCY	6.9000e-004	6.0900e-004
tblVehicleEF	MCY	1.45	1.44
tblVehicleEF	MCY	0.84	0.84
tblVehicleEF	MCY	0.80	0.80
tblVehicleEF	MCY	2.74	2.74
tblVehicleEF	MCY	0.49	2.04
tblVehicleEF	MCY	2.35	2.07
tblVehicleEF	MCY	0.42	0.32
tblVehicleEF	MCY	0.14	0.22
tblVehicleEF	MCY	20.68	20.87

tblVehicleEF	MCY	9.05	7.97
tblVehicleEF	MCY	167.73	210.98
tblVehicleEF	MCY	46.45	59.35
tblVehicleEF	MCY	0.99	0.99
tblVehicleEF	MCY	1.8610e-003	1.8280e-003
tblVehicleEF	MCY	3.6730e-003	3.0520e-003
tblVehicleEF	MCY	1.7420e-003	1.7110e-003
tblVehicleEF	MCY	3.4650e-003	2.8770e-003
tblVehicleEF	MCY	3.14	3.14
tblVehicleEF	MCY	1.27	1.28
tblVehicleEF	MCY	2.13	2.12
tblVehicleEF	MCY	2.17	2.17
tblVehicleEF	MCY	0.49	2.03
tblVehicleEF	MCY	1.86	1.63
tblVehicleEF	MCY	2.0770e-003	2.0880e-003
tblVehicleEF	MCY	6.6700e-004	5.8700e-004
tblVehicleEF	MCY	3.14	3.14
tblVehicleEF	MCY	1.27	1.28
tblVehicleEF	MCY	2.13	2.12
tblVehicleEF	MCY	2.67	2.67
tblVehicleEF	MCY	0.49	2.03
tblVehicleEF	MCY	2.02	1.77
tblVehicleEF	MCY	0.42	0.32
tblVehicleEF	MCY	0.15	0.24
tblVehicleEF	MCY	19.63	19.79
tblVehicleEF	MCY	9.55	8.43
tblVehicleEF	MCY	167.73	209.35

tblVehicleEF	MCY	46.45	60.75
tblVehicleEF	MCY	1.12	1.12
tblVehicleEF	MCY	1.8610e-003	1.8280e-003
tblVehicleEF	MCY	3.6730e-003	3.0520e-003
tblVehicleEF	MCY	1.7420e-003	1.7110e-003
tblVehicleEF	MCY	3.4650e-003	2.8770e-003
tblVehicleEF	MCY	1.71	1.70
tblVehicleEF	MCY	1.13	1.12
tblVehicleEF	MCY	0.72	0.71
tblVehicleEF	MCY	2.19	2.20
tblVehicleEF	MCY	0.56	2.32
tblVehicleEF	MCY	2.08	1.83
tblVehicleEF	MCY	2.0610e-003	2.0720e-003
tblVehicleEF	MCY	6.8200e-004	6.0100e-004
tblVehicleEF	MCY	1.71	1.70
tblVehicleEF	MCY	1.13	1.12
tblVehicleEF	MCY	0.72	0.71
tblVehicleEF	MCY	2.69	2.69
tblVehicleEF	MCY	0.56	2.32
tblVehicleEF	MCY	2.27	1.99
tblVehicleEF	MDV	0.01	5.5560e-003
tblVehicleEF	MDV	0.02	0.09
tblVehicleEF	MDV	1.35	1.14
tblVehicleEF	MDV	3.25	3.33
tblVehicleEF	MDV	483.94	412.02
tblVehicleEF	MDV	107.92	87.05
tblVehicleEF	MDV	0.17	0.12

tblVehicleEF	MDV	1.8260e-003	1.6290e-003
tblVehicleEF	MDV	2.5170e-003	2.0560e-003
tblVehicleEF	MDV	1.6830e-003	1.5030e-003
tblVehicleEF	MDV	2.3150e-003	1.8910e-003
tblVehicleEF	MDV	0.10	0.12
tblVehicleEF	MDV	0.20	0.17
tblVehicleEF	MDV	0.08	0.10
tblVehicleEF	MDV	0.03	0.02
tblVehicleEF	MDV	0.11	0.52
tblVehicleEF	MDV	0.25	0.45
tblVehicleEF	MDV	4.8500e-003	4.0740e-003
tblVehicleEF	MDV	1.1370e-003	8.6100e-004
tblVehicleEF	MDV	0.10	0.12
tblVehicleEF	MDV	0.20	0.17
tblVehicleEF	MDV	0.08	0.10
tblVehicleEF	MDV	0.05	0.03
tblVehicleEF	MDV	0.11	0.52
tblVehicleEF	MDV	0.28	0.50
tblVehicleEF	MDV	0.01	6.3580e-003
tblVehicleEF	MDV	0.02	0.08
tblVehicleEF	MDV	1.64	1.38
tblVehicleEF	MDV	2.69	2.75
tblVehicleEF	MDV	526.85	437.99
tblVehicleEF	MDV	107.92	85.88
tblVehicleEF	MDV	0.16	0.11
tblVehicleEF	MDV	1.8260e-003	1.6290e-003
tblVehicleEF	MDV	2.5170e-003	2.0560e-003

tblVehicleEF	MDV	1.6830e-003	1.5030e-003
tblVehicleEF	MDV	2.3150e-003	1.8910e-003
tblVehicleEF	MDV	0.20	0.24
tblVehicleEF	MDV	0.23	0.20
tblVehicleEF	MDV	0.17	0.21
tblVehicleEF	MDV	0.04	0.03
tblVehicleEF	MDV	0.11	0.52
tblVehicleEF	MDV	0.21	0.38
tblVehicleEF	MDV	5.2830e-003	4.3310e-003
tblVehicleEF	MDV	1.1260e-003	8.5000e-004
tblVehicleEF	MDV	0.20	0.24
tblVehicleEF	MDV	0.23	0.20
tblVehicleEF	MDV	0.17	0.21
tblVehicleEF	MDV	0.05	0.04
tblVehicleEF	MDV	0.11	0.52
tblVehicleEF	MDV	0.23	0.42
tblVehicleEF	MDV	0.01	5.4100e-003
tblVehicleEF	MDV	0.02	0.09
tblVehicleEF	MDV	1.28	1.08
tblVehicleEF	MDV	3.20	3.28
tblVehicleEF	MDV	473.93	405.86
tblVehicleEF	MDV	107.92	86.95
tblVehicleEF	MDV	0.16	0.11
tblVehicleEF	MDV	1.8260e-003	1.6290e-003
tblVehicleEF	MDV	2.5170e-003	2.0560e-003
tblVehicleEF	MDV	1.6830e-003	1.5030e-003
tblVehicleEF	MDV	2.3150e-003	1.8910e-003

tblVehicleEF	MDV	0.10	0.11
tblVehicleEF	MDV	0.22	0.19
tblVehicleEF	MDV	0.08	0.10
tblVehicleEF	MDV	0.03	0.02
tblVehicleEF	MDV	0.13	0.60
tblVehicleEF	MDV	0.25	0.45
tblVehicleEF	MDV	4.7490e-003	4.0130e-003
tblVehicleEF	MDV	1.1360e-003	8.6000e-004
tblVehicleEF	MDV	0.10	0.11
tblVehicleEF	MDV	0.22	0.19
tblVehicleEF	MDV	0.08	0.10
tblVehicleEF	MDV	0.04	0.03
tblVehicleEF	MDV	0.13	0.60
tblVehicleEF	MDV	0.27	0.49
tblVehicleEF	MH	0.04	3.7970e-003
tblVehicleEF	MH	0.03	0.00
tblVehicleEF	MH	3.07	0.36
tblVehicleEF	MH	6.43	0.00
tblVehicleEF	MH	1,045.05	951.23
tblVehicleEF	MH	59.49	0.00
tblVehicleEF	MH	1.54	4.54
tblVehicleEF	MH	0.01	0.02
tblVehicleEF	MH	0.04	0.14
tblVehicleEF	MH	1.1740e-003	0.00
tblVehicleEF	MH	3.2230e-003	4.0000e-003
tblVehicleEF	MH	0.04	0.14
tblVehicleEF	MH	1.0790e-003	0.00

tblVehicleEF	MH	1.47	0.00
tblVehicleEF	MH	0.09	0.00
tblVehicleEF	MH	0.51	0.00
tblVehicleEF	MH	0.10	0.08
tblVehicleEF	MH	0.03	0.00
tblVehicleEF	MH	0.37	0.00
tblVehicleEF	MH	0.01	8.9930e-003
tblVehicleEF	MH	7.0700e-004	0.00
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tblVehicleEF	MH	0.09	0.00
tblVehicleEF	MH	0.51	0.00
tblVehicleEF	MH	0.14	0.09
tblVehicleEF	MH	0.03	0.00
tblVehicleEF	MH	0.40	0.00
tblVehicleEF	MH	0.04	3.7970e-003
tblVehicleEF	MH	0.03	0.00
tblVehicleEF	MH	3.19	0.36
tblVehicleEF	MH	5.84	0.00
tblVehicleEF	MH	1,045.05	951.23
tblVehicleEF	MH	59.49	0.00
tblVehicleEF	MH	1.41	4.26
tblVehicleEF	MH	0.01	0.02
tblVehicleEF	MH	0.04	0.14
tblVehicleEF	MH	1.1740e-003	0.00
tblVehicleEF	MH	3.2230e-003	4.0000e-003
tblVehicleEF	MH	0.04	0.14
tblVehicleEF	MH	1.0790e-003	0.00

tblVehicleEF	MH	2.91	0.00
tblVehicleEF	MH	0.11	0.00
tblVehicleEF	MH	1.21	0.00
tblVehicleEF	MH	0.11	0.08
tblVehicleEF	MH	0.03	0.00
tblVehicleEF	MH	0.34	0.00
tblVehicleEF	MH	0.01	8.9930e-003
tblVehicleEF	MH	6.9700e-004	0.00
tblVehicleEF	MH	2.91	0.00
tblVehicleEF	MH	0.11	0.00
tblVehicleEF	MH	1.21	0.00
tblVehicleEF	MH	0.15	0.09
tblVehicleEF	MH	0.03	0.00
tblVehicleEF	MH	0.38	0.00
tblVehicleEF	MH	0.04	3.7970e-003
tblVehicleEF	MH	0.03	0.00
tblVehicleEF	MH	3.08	0.36
tblVehicleEF	MH	6.36	0.00
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tblVehicleEF	MH	59.49	0.00
tblVehicleEF	MH	1.51	4.46
tblVehicleEF	MH	0.01	0.02
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tblVehicleEF	MH	3.2230e-003	4.0000e-003
tblVehicleEF	MH	0.04	0.14
tblVehicleEF	MH	1.0790e-003	0.00

tblVehicleEF	MH	1.75	0.00
tblVehicleEF	MH	0.11	0.00
tblVehicleEF	MH	0.53	0.00
tblVehicleEF	MH	0.10	0.08
tblVehicleEF	MH	0.03	0.00
tblVehicleEF	MH	0.37	0.00
tblVehicleEF	MH	0.01	8.9930e-003
tblVehicleEF	MH	7.0600e-004	0.00
tblVehicleEF	MH	1.75	0.00
tblVehicleEF	MH	0.11	0.00
tblVehicleEF	MH	0.53	0.00
tblVehicleEF	MH	0.15	0.09
tblVehicleEF	MH	0.03	0.00
tblVehicleEF	MH	0.40	0.00
tblVehicleEF	MHD	0.02	3.1740e-003
tblVehicleEF	MHD	3.5160e-003	3.4880e-003
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tblVehicleEF	MHD	0.60	0.51
tblVehicleEF	MHD	0.99	1.54
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tblVehicleEF	MHD	5.0030e-003	0.03

tblVehicleEF	MHD	7.6400e-004	1.0000e-004
tblVehicleEF	MHD	3.6900e-004	1.1300e-003
tblVehicleEF	MHD	4.7830e-003	0.03
tblVehicleEF	MHD	7.0300e-004	9.2000e-005
tblVehicleEF	MHD	1.2800e-003	5.9300e-004
tblVehicleEF	MHD	0.04	0.02
tblVehicleEF	MHD	0.02	0.02
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tblVehicleEF	MHD	0.04	0.05
tblVehicleEF	MHD	0.02	0.11
tblVehicleEF	MHD	0.32	0.04
tblVehicleEF	MHD	1.5080e-003	6.5500e-004
tblVehicleEF	MHD	0.01	9.5250e-003
tblVehicleEF	MHD	6.1700e-004	8.2000e-005
tblVehicleEF	MHD	1.2800e-003	5.9300e-004
tblVehicleEF	MHD	0.04	0.02
tblVehicleEF	MHD	0.03	0.02
tblVehicleEF	MHD	6.5100e-004	3.0000e-004
tblVehicleEF	MHD	0.04	0.06
tblVehicleEF	MHD	0.02	0.11
tblVehicleEF	MHD	0.35	0.05
tblVehicleEF	MHD	0.02	3.0170e-003
tblVehicleEF	MHD	3.5800e-003	3.5290e-003
tblVehicleEF	MHD	0.05	8.1180e-003
tblVehicleEF	MHD	0.24	0.28
tblVehicleEF	MHD	0.28	0.36
tblVehicleEF	MHD	4.97	0.91

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tblVehicleEF	MHD	52.43	8.13
tblVehicleEF	MHD	0.62	0.51
tblVehicleEF	MHD	0.92	1.44
tblVehicleEF	MHD	3.2500e-004	9.9900e-004
tblVehicleEF	MHD	5.0030e-003	0.03
tblVehicleEF	MHD	7.6400e-004	1.0000e-004
tblVehicleEF	MHD	3.1100e-004	9.5500e-004
tblVehicleEF	MHD	4.7830e-003	0.03
tblVehicleEF	MHD	7.0300e-004	9.2000e-005
tblVehicleEF	MHD	2.5300e-003	1.1740e-003
tblVehicleEF	MHD	0.05	0.02
tblVehicleEF	MHD	0.02	0.02
tblVehicleEF	MHD	1.5010e-003	6.9400e-004
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tblVehicleEF	MHD	0.02	0.11
tblVehicleEF	MHD	0.30	0.04
tblVehicleEF	MHD	1.5950e-003	6.6200e-004
tblVehicleEF	MHD	0.01	9.5250e-003
tblVehicleEF	MHD	6.1100e-004	8.1000e-005
tblVehicleEF	MHD	2.5300e-003	1.1740e-003
tblVehicleEF	MHD	0.05	0.02
tblVehicleEF	MHD	0.03	0.02
tblVehicleEF	MHD	1.5010e-003	6.9400e-004
tblVehicleEF	MHD	0.04	0.06
tblVehicleEF	MHD	0.02	0.11

tblVehicleEF	MHD	0.33	0.05
tblVehicleEF	MHD	0.02	3.4070e-003
tblVehicleEF	MHD	3.5220e-003	3.4910e-003
tblVehicleEF	MHD	0.05	8.4150e-003
tblVehicleEF	MHD	0.45	0.41
tblVehicleEF	MHD	0.27	0.35
tblVehicleEF	MHD	5.23	0.96
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tblVehicleEF	MHD	0.57	0.51
tblVehicleEF	MHD	0.97	1.51
tblVehicleEF	MHD	4.7000e-004	1.4340e-003
tblVehicleEF	MHD	5.0030e-003	0.03
tblVehicleEF	MHD	7.6400e-004	1.0000e-004
tblVehicleEF	MHD	4.4900e-004	1.3720e-003
tblVehicleEF	MHD	4.7830e-003	0.03
tblVehicleEF	MHD	7.0300e-004	9.2000e-005
tblVehicleEF	MHD	1.3890e-003	6.4600e-004
tblVehicleEF	MHD	0.05	0.02
tblVehicleEF	MHD	0.03	0.02
tblVehicleEF	MHD	6.4000e-004	2.9500e-004
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tblVehicleEF	MHD	0.02	0.12
tblVehicleEF	MHD	0.32	0.04
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tblVehicleEF	MHD	0.01	9.5250e-003

tblVehicleEF	MHD	6.1600e-004	8.1000e-005
tblVehicleEF	MHD	1.3890e-003	6.4600e-004
tblVehicleEF	MHD	0.05	0.02
tblVehicleEF	MHD	0.04	0.02
tblVehicleEF	MHD	6.4000e-004	2.9500e-004
tblVehicleEF	MHD	0.04	0.06
tblVehicleEF	MHD	0.02	0.12
tblVehicleEF	MHD	0.35	0.05
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tblVehicleEF	OBUS	9.9110e-003	8.5440e-003
tblVehicleEF	OBUS	0.03	0.03
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tblVehicleEF	OBUS	6.27	2.73
tblVehicleEF	OBUS	70.35	66.56
tblVehicleEF	OBUS	1,121.50	1,475.42
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tblVehicleEF	OBUS	0.97	1.13
tblVehicleEF	OBUS	6.4000e-005	5.0000e-004
tblVehicleEF	OBUS	4.6440e-003	0.01
tblVehicleEF	OBUS	9.2900e-004	2.3000e-004
tblVehicleEF	OBUS	6.1000e-005	4.7800e-004
tblVehicleEF	OBUS	4.4220e-003	0.01
tblVehicleEF	OBUS	8.5400e-004	2.1200e-004
tblVehicleEF	OBUS	2.1800e-003	2.7870e-003
tblVehicleEF	OBUS	0.02	0.03

tblVehicleEF	OBUS	0.04	0.05
tblVehicleEF	OBUS	9.3100e-004	1.1430e-003
tblVehicleEF	OBUS	0.04	0.06
tblVehicleEF	OBUS	0.05	0.31
tblVehicleEF	OBUS	0.38	0.13
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tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	8.1700e-004	2.1700e-004
tblVehicleEF	OBUS	2.1800e-003	2.7870e-003
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tblVehicleEF	OBUS	4.6440e-003	0.01
tblVehicleEF	OBUS	9.2900e-004	2.3000e-004
tblVehicleEF	OBUS	5.1000e-005	4.0700e-004
tblVehicleEF	OBUS	4.4220e-003	0.01
tblVehicleEF	OBUS	8.5400e-004	2.1200e-004
tblVehicleEF	OBUS	4.2350e-003	5.4310e-003
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tblVehicleEF	OBUS	0.05	0.06
tblVehicleEF	OBUS	0.05	0.31
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tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	8.0800e-004	2.1300e-004
tblVehicleEF	OBUS	4.2350e-003	5.4310e-003
tblVehicleEF	OBUS	0.02	0.03
tblVehicleEF	OBUS	0.05	0.07
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tblVehicleEF	OBUS	0.63	0.99

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tblVehicleEF	OBUS	4.6440e-003	0.01
tblVehicleEF	OBUS	9.2900e-004	2.3000e-004
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tblVehicleEF	SBUS	0.03	0.03
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tblVehicleEF	SBUS	2.8800e-003	6.7400e-004
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tblVehicleEF	SBUS	0.01	0.05
tblVehicleEF	SBUS	0.28	0.02
tblVehicleEF	SBUS	0.01	3.0930e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	4.6400e-004	3.2000e-005
tblVehicleEF	SBUS	2.9580e-003	7.2600e-004
tblVehicleEF	SBUS	0.02	5.8800e-003
tblVehicleEF	SBUS	0.98	0.28
tblVehicleEF	SBUS	1.2820e-003	3.5300e-004
tblVehicleEF	SBUS	0.13	0.11

tblVehicleEF	SBUS	0.01	0.05
tblVehicleEF	SBUS	0.31	0.03
tblVehicleEF	UBUS	1.83	4.19
tblVehicleEF	UBUS	0.08	0.02
tblVehicleEF	UBUS	9.26	32.67
tblVehicleEF	UBUS	14.34	1.43
tblVehicleEF	UBUS	1,846.39	1,724.94
tblVehicleEF	UBUS	136.37	16.90
tblVehicleEF	UBUS	5.87	0.37
tblVehicleEF	UBUS	0.52	0.08
tblVehicleEF	UBUS	0.01	0.03
tblVehicleEF	UBUS	0.07	2.6830e-003
tblVehicleEF	UBUS	1.4030e-003	1.8900e-004
tblVehicleEF	UBUS	0.22	0.03
tblVehicleEF	UBUS	3.0000e-003	6.3130e-003
tblVehicleEF	UBUS	0.06	2.5510e-003
tblVehicleEF	UBUS	1.2900e-003	1.7400e-004
tblVehicleEF	UBUS	8.0860e-003	1.5320e-003
tblVehicleEF	UBUS	0.11	8.4710e-003
tblVehicleEF	UBUS	3.9450e-003	6.5200e-004
tblVehicleEF	UBUS	0.61	0.06
tblVehicleEF	UBUS	0.02	0.04
tblVehicleEF	UBUS	1.15	0.06
tblVehicleEF	UBUS	0.01	3.8820e-003
tblVehicleEF	UBUS	1.6240e-003	1.6700e-004
tblVehicleEF	UBUS	8.0860e-003	1.5320e-003
tblVehicleEF	UBUS	0.11	8.4710e-003

tblVehicleEF	UBUS	3.9450e-003	6.5200e-004
tblVehicleEF	UBUS	2.50	4.28
tblVehicleEF	UBUS	0.02	0.04
tblVehicleEF	UBUS	1.25	0.07
tblVehicleEF	UBUS	1.83	4.19
tblVehicleEF	UBUS	0.08	0.01
tblVehicleEF	UBUS	9.36	32.67
tblVehicleEF	UBUS	11.74	1.17
tblVehicleEF	UBUS	1,846.39	1,724.94
tblVehicleEF	UBUS	136.37	16.47
tblVehicleEF	UBUS	5.45	0.37
tblVehicleEF	UBUS	0.52	0.08
tblVehicleEF	UBUS	0.01	0.03
tblVehicleEF	UBUS	0.07	2.6830e-003
tblVehicleEF	UBUS	1.4030e-003	1.8900e-004
tblVehicleEF	UBUS	0.22	0.03
tblVehicleEF	UBUS	3.0000e-003	6.3130e-003
tblVehicleEF	UBUS	0.06	2.5510e-003
tblVehicleEF	UBUS	1.2900e-003	1.7400e-004
tblVehicleEF	UBUS	0.02	2.9020e-003
tblVehicleEF	UBUS	0.14	0.01
tblVehicleEF	UBUS	9.3320e-003	1.4770e-003
tblVehicleEF	UBUS	0.62	0.06
tblVehicleEF	UBUS	0.02	0.04
tblVehicleEF	UBUS	1.02	0.06
tblVehicleEF	UBUS	0.01	3.8820e-003
tblVehicleEF	UBUS	1.5790e-003	1.6300e-004

tblVehicleEF	UBUS	0.02	2.9020e-003
tblVehicleEF	UBUS	0.14	0.01
tblVehicleEF	UBUS	9.3320e-003	1.4770e-003
tblVehicleEF	UBUS	2.52	4.28
tblVehicleEF	UBUS	0.02	0.04
tblVehicleEF	UBUS	1.12	0.06
tblVehicleEF	UBUS	1.83	4.19
tblVehicleEF	UBUS	0.08	0.02
tblVehicleEF	UBUS	9.27	32.67
tblVehicleEF	UBUS	13.86	1.39
tblVehicleEF	UBUS	1,846.39	1,724.94
tblVehicleEF	UBUS	136.37	16.85
tblVehicleEF	UBUS	5.76	0.37
tblVehicleEF	UBUS	0.52	0.08
tblVehicleEF	UBUS	0.01	0.03
tblVehicleEF	UBUS	0.07	2.6830e-003
tblVehicleEF	UBUS	1.4030e-003	1.8900e-004
tblVehicleEF	UBUS	0.22	0.03
tblVehicleEF	UBUS	3.0000e-003	6.3130e-003
tblVehicleEF	UBUS	0.06	2.5510e-003
tblVehicleEF	UBUS	1.2900e-003	1.7400e-004
tblVehicleEF	UBUS	9.2250e-003	1.6220e-003
tblVehicleEF	UBUS	0.14	9.7130e-003
tblVehicleEF	UBUS	4.1190e-003	6.4800e-004
tblVehicleEF	UBUS	0.61	0.06
tblVehicleEF	UBUS	0.03	0.04
tblVehicleEF	UBUS	1.13	0.06

tblVehicleEF	UBUS	0.01	3.8820e-003
tblVehicleEF	UBUS	1.6160e-003	1.6700e-004
tblVehicleEF	UBUS	9.2250e-003	1.6220e-003
tblVehicleEF	UBUS	0.14	9.7130e-003
tblVehicleEF	UBUS	4.1190e-003	6.4800e-004
tblVehicleEF	UBUS	2.50	4.28
tblVehicleEF	UBUS	0.03	0.04
tblVehicleEF	UBUS	1.24	0.07
tblVehicleTrips	CC_TL	8.40	0.00
tblVehicleTrips	CC_TL	8.40	0.00
tblVehicleTrips	CC_TL	8.40	0.00
tblVehicleTrips	CC_TL	8.40	0.00
tblVehicleTrips	CNW_TL	6.90	0.00
tblVehicleTrips	CNW_TL	6.90	0.00
tblVehicleTrips	CNW_TL	6.90	0.00
tblVehicleTrips	CNW_TL	6.90	0.00
tblVehicleTrips	CNW_TTP	41.00	0.00
tblVehicleTrips	CW_TL	16.60	0.00
tblVehicleTrips	CW_TL	16.60	0.00
tblVehicleTrips	CW_TL	16.60	0.00
tblVehicleTrips	CW_TL	16.60	0.00
tblVehicleTrips	CW_TTP	59.00	0.00
tblVehicleTrips	DV_TP	5.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PR_TP	92.00	0.00
tblVehicleTrips	ST_TR	1.68	0.00
tblVehicleTrips	SU_TR	1.68	0.00

tblVehicleTrips	WD_TR	1.68	0.00
tblWater	IndoorWaterUseRate	174,457,312.50	0.00

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2021	6.8596	60.8426	48.0103	0.1753	21.9792	2.6473	24.6265	10.3848	2.4355	12.8203	0.0000	17,673.1682	17,673.1682	2.2462	0.0000	17,716.7690
2022	62.0898	66.8437	67.3319	0.2137	9.9539	2.0368	11.9906	2.6748	1.9006	4.5754	0.0000	21,409.9948	21,409.9948	2.4807	0.0000	21,472.0122
Maximum	**62.0898**	**66.8437**	**67.3319**	**0.2137**	**21.9792**	**2.6473**	**24.6265**	**10.3848**	**2.4355**	**12.8203**	**0.0000**	**21,409.9948**	**21,409.9948**	**2.4807**	**0.0000**	**21,472.0122**

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2021	6.8596	60.8426	48.0103	0.1753	8.6946	2.6473	11.3419	4.0826	2.4355	6.5181	0.0000	17,673.1682	17,673.1682	2.2462	0.0000	17,716.7690
2022	62.0898	66.8437	67.3319	0.2137	9.9539	2.0368	11.9906	2.6748	1.9006	4.5754	0.0000	21,409.9948	21,409.9948	2.4807	0.0000	21,472.0122
Maximum	**62.0898**	**66.8437**	**67.3319**	**0.2137**	**9.9539**	**2.6473**	**11.9906**	**4.0826**	**2.4355**	**6.5181**	**0.0000**	**21,409.9948**	**21,409.9948**	**2.4807**	**0.0000**	**21,472.0122**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**41.60**	**0.00**	**36.28**	**48.26**	**0.00**	**36.23**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	17.1751	1.5900e-003	0.1746	1.0000e-005		6.2000e-004	6.2000e-004		6.2000e-004	6.2000e-004		0.3736	0.3736	9.9000e-004		0.3982
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	**17.1751**	**1.5900e-003**	**0.1746**	**1.0000e-005**	**0.0000**	**6.2000e-004**	**6.2000e-004**	**0.0000**	**6.2000e-004**	**6.2000e-004**		**0.3736**	**0.3736**	**9.9000e-004**	**0.0000**	**0.3982**

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	17.1751	1.5900e-003	0.1746	1.0000e-005		6.2000e-004	6.2000e-004		6.2000e-004	6.2000e-004		0.3736	0.3736	9.9000e-004		0.3982
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	**17.1751**	**1.5900e-003**	**0.1746**	**1.0000e-005**	**0.0000**	**6.2000e-004**	**6.2000e-004**	**0.0000**	**6.2000e-004**	**6.2000e-004**		**0.3736**	**0.3736**	**9.9000e-004**	**0.0000**	**0.3982**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	6/1/2021	7/12/2021	5	30	
2	Site Preparation	Site Preparation	7/13/2021	8/9/2021	5	20	
3	Grading	Grading	8/10/2021	10/11/2021	5	45	
4	Building Construction	Building Construction	10/12/2021	6/20/2022	5	180	
5	Architectural Coating	Architectural Coating	3/15/2022	6/20/2022	5	70	
6	Paving	Paving	5/3/2022	6/20/2022	5	35	

Acres of Grading (Site Preparation Phase): 70

Acres of Grading (Grading Phase): 180

Acres of Paving: 16.3

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 1,131,612; Non-Residential Outdoor: 377,204; Striped Parking Area: 42,608 (Architectural Coating – sqft)

OffRoad Equipment

Fontana Foothills Commerce Center (Construction - Unmitigated) - San Bernardino-South Coast County, Summer

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Excavators	3	8.00	158	0.38
Demolition	Rubber Tired Dozers	2	8.00	247	0.40
Site Preparation	Crawler Tractors	4	8.00	212	0.43
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Grading	Crawler Tractors	2	8.00	212	0.43
Grading	Excavators	2	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
Grading	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Building Construction	Cranes	1	8.00	231	0.29
Building Construction	Crawler Tractors	3	8.00	212	0.43
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Architectural Coating	Air Compressors	1	8.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	6	15.00	0.00	73.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	615.00	240.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	123.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

3.2 Demolition - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.5295	0.0000	0.5295	0.0802	0.0000	0.0802			0.0000			0.0000
Off-Road	3.1651	31.4407	21.5650	0.0388		1.5513	1.5513		1.4411	1.4411		3,747.9449	3,747.9449	1.0549		3,774.3174
Total	**3.1651**	**31.4407**	**21.5650**	**0.0388**	**0.5295**	**1.5513**	**2.0808**	**0.0802**	**1.4411**	**1.5213**		**3,747.9449**	**3,747.9449**	**1.0549**		**3,774.3174**

3.2 Demolition - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0145	0.5550	0.0860	1.8900e-003	0.0426	1.5700e-003	0.0442	0.0117	1.5000e-003	0.0132		200.7962	200.7962	0.0108		201.0653
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0762	0.0471	0.6210	1.6500e-003	0.1677	1.0700e-003	0.1687	0.0445	9.9000e-004	0.0455		164.1121	164.1121	4.6700e-003		164.2289
Total	**0.0907**	**0.6021**	**0.7069**	**3.5400e-003**	**0.2102**	**2.6400e-003**	**0.2129**	**0.0561**	**2.4900e-003**	**0.0586**		**364.9082**	**364.9082**	**0.0154**		**365.2941**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.2065	0.0000	0.2065	0.0313	0.0000	0.0313			0.0000			0.0000
Off-Road	3.1651	31.4407	21.5650	0.0388		1.5513	1.5513		1.4411	1.4411	0.0000	3,747.9449	3,747.9449	1.0549		3,774.3174
Total	**3.1651**	**31.4407**	**21.5650**	**0.0388**	**0.2065**	**1.5513**	**1.7578**	**0.0313**	**1.4411**	**1.4724**	**0.0000**	**3,747.9449**	**3,747.9449**	**1.0549**		**3,774.3174**

3.2 Demolition - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0145	0.5550	0.0860	1.8900e-003	0.0426	1.5700e-003	0.0442	0.0117	1.5000e-003	0.0132		200.7962	200.7962	0.0108		201.0653
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0762	0.0471	0.6210	1.6500e-003	0.1677	1.0700e-003	0.1687	0.0445	9.9000e-004	0.0455		164.1121	164.1121	4.6700e-003		164.2289
Total	**0.0907**	**0.6021**	**0.7069**	**3.5400e-003**	**0.2102**	**2.6400e-003**	**0.2129**	**0.0561**	**2.4900e-003**	**0.0586**		**364.9082**	**364.9082**	**0.0154**		**365.2941**

3.3 Site Preparation - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					21.7780	0.0000	21.7780	10.3315	0.0000	10.3315			0.0000			0.0000
Off-Road	5.3428	60.7861	21.8537	0.0570		2.6460	2.6460		2.4343	2.4343		5,523.5047	5,523.5047	1.7864		5,568.1651
Total	**5.3428**	**60.7861**	**21.8537**	**0.0570**	**21.7780**	**2.6460**	**24.4240**	**10.3315**	**2.4343**	**12.7658**		**5,523.5047**	**5,523.5047**	**1.7864**		**5,568.1651**

3.3 Site Preparation - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0915	0.0565	0.7452	1.9800e-003	0.2012	1.2900e-003	0.2025	0.0534	1.1900e-003	0.0545		196.9345	196.9345	5.6000e-003		197.0746
Total	**0.0915**	**0.0565**	**0.7452**	**1.9800e-003**	**0.2012**	**1.2900e-003**	**0.2025**	**0.0534**	**1.1900e-003**	**0.0545**		**196.9345**	**196.9345**	**5.6000e-003**		**197.0746**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					8.4934	0.0000	8.4934	4.0293	0.0000	4.0293			0.0000			0.0000
Off-Road	5.3428	60.7861	21.8537	0.0570		2.6460	2.6460		2.4343	2.4343	0.0000	5,523.5047	5,523.5047	1.7864		5,568.1651
Total	**5.3428**	**60.7861**	**21.8537**	**0.0570**	**8.4934**	**2.6460**	**11.1394**	**4.0293**	**2.4343**	**6.4636**	**0.0000**	**5,523.5047**	**5,523.5047**	**1.7864**		**5,568.1651**

3.3 Site Preparation - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0915	0.0565	0.7452	1.9800e-003	0.2012	1.2900e-003	0.2025	0.0534	1.1900e-003	0.0545		196.9345	196.9345	5.6000e-003		197.0746
Total	**0.0915**	**0.0565**	**0.7452**	**1.9800e-003**	**0.2012**	**1.2900e-003**	**0.2025**	**0.0534**	**1.1900e-003**	**0.0545**		**196.9345**	**196.9345**	**5.6000e-003**		**197.0746**

3.4 Grading - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					10.2641	0.0000	10.2641	3.7683	0.0000	3.7683			0.0000			0.0000
Off-Road	4.9185	56.5443	31.2281	0.0715		2.2861	2.2861		2.1032	2.1032		6,925.9674	6,925.9674	2.2400		6,981.9673
Total	**4.9185**	**56.5443**	**31.2281**	**0.0715**	**10.2641**	**2.2861**	**12.5502**	**3.7683**	**2.1032**	**5.8715**		**6,925.9674**	**6,925.9674**	**2.2400**		**6,981.9673**

3.4 Grading - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1016	0.0628	0.8280	2.2000e-003	0.2236	1.4300e-003	0.2250	0.0593	1.3200e-003	0.0606		218.8161	218.8161	6.2300e-003		218.9718
Total	**0.1016**	**0.0628**	**0.8280**	**2.2000e-003**	**0.2236**	**1.4300e-003**	**0.2250**	**0.0593**	**1.3200e-003**	**0.0606**		**218.8161**	**218.8161**	**6.2300e-003**		**218.9718**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					4.0030	0.0000	4.0030	1.4696	0.0000	1.4696			0.0000			0.0000
Off-Road	4.9185	56.5443	31.2281	0.0715		2.2861	2.2861		2.1032	2.1032	0.0000	6,925.9674	6,925.9674	2.2400		6,981.9673
Total	**4.9185**	**56.5443**	**31.2281**	**0.0715**	**4.0030**	**2.2861**	**6.2891**	**1.4696**	**2.1032**	**3.5728**	**0.0000**	**6,925.9674**	**6,925.9674**	**2.2400**		**6,981.9673**

3.4 Grading - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1016	0.0628	0.8280	2.2000e-003	0.2236	1.4300e-003	0.2250	0.0593	1.3200e-003	0.0606		218.8161	218.8161	6.2300e-003		218.9718
Total	**0.1016**	**0.0628**	**0.8280**	**2.2000e-003**	**0.2236**	**1.4300e-003**	**0.2250**	**0.0593**	**1.3200e-003**	**0.0606**		**218.8161**	**218.8161**	**6.2300e-003**		**218.9718**

3.5 Building Construction - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	3.1137	33.9659	18.1952	0.0430		1.4763	1.4763		1.3775	1.3775		4,114.4297	4,114.4297	1.1209		4,142.4520
Total	**3.1137**	**33.9659**	**18.1952**	**0.0430**		**1.4763**	**1.4763**		**1.3775**	**1.3775**		**4,114.4297**	**4,114.4297**	**1.1209**		**4,142.4520**

3.5 Building Construction - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.6211	23.1450	4.3551	0.0647	1.5371	0.0397	1.5768	0.4426	0.0380	0.4805		6,830.1434	6,830.1434	0.4316		6,840.9342
Worker	3.1248	1.9315	25.4600	0.0676	6.8743	0.0440	6.9182	1.8231	0.0405	1.8636		6,728.5952	6,728.5952	0.1915		6,733.3828
Total	**3.7459**	**25.0765**	**29.8151**	**0.1323**	**8.4114**	**0.0837**	**8.4950**	**2.2657**	**0.0784**	**2.3441**		**13,558.7386**	**13,558.7386**	**0.6231**		**13,574.3170**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	3.1137	33.9659	18.1952	0.0430		1.4763	1.4763		1.3775	1.3775	0.0000	4,114.4297	4,114.4297	1.1209		4,142.4520
Total	**3.1137**	**33.9659**	**18.1952**	**0.0430**		**1.4763**	**1.4763**		**1.3775**	**1.3775**	**0.0000**	**4,114.4297**	**4,114.4297**	**1.1209**		**4,142.4520**

3.5 Building Construction - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.6211	23.1450	4.3551	0.0647	1.5371	0.0397	1.5768	0.4426	0.0380	0.4805		6,830.1434	6,830.1434	0.4316		6,840.9342
Worker	3.1248	1.9315	25.4600	0.0676	6.8743	0.0440	6.9182	1.8231	0.0405	1.8636		6,728.5952	6,728.5952	0.1915		6,733.3828
Total	**3.7459**	**25.0765**	**29.8151**	**0.1323**	**8.4114**	**0.0837**	**8.4950**	**2.2657**	**0.0784**	**2.3441**		**13,558.7386**	**13,558.7386**	**0.6231**		**13,574.3170**

3.5 Building Construction - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.7963	29.7637	17.6698	0.0430		1.2743	1.2743		1.1892	1.1892		4,110.5322	4,110.5322	1.1153		4,138.4135
Total	**2.7963**	**29.7637**	**17.6698**	**0.0430**		**1.2743**	**1.2743**		**1.1892**	**1.1892**		**4,110.5322**	**4,110.5322**	**1.1153**		**4,138.4135**

3.5 Building Construction - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.5786	21.9509	4.0266	0.0642	1.5371	0.0333	1.5704	0.4426	0.0319	0.4745		6,775.3820	6,775.3820	0.4167		6,785.7993
Worker	2.9181	1.7366	23.3888	0.0651	6.8743	0.0427	6.9169	1.8231	0.0393	1.8624		6,485.8049	6,485.8049	0.1718		6,490.0992
Total	**3.4967**	**23.6875**	**27.4154**	**0.1293**	**8.4114**	**0.0760**	**8.4874**	**2.2657**	**0.0712**	**2.3368**		**13,261.1869**	**13,261.1869**	**0.5885**		**13,275.8985**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.7963	29.7637	17.6698	0.0430		1.2743	1.2743		1.1892	1.1892	0.0000	4,110.5322	4,110.5322	1.1153		4,138.4135
Total	**2.7963**	**29.7637**	**17.6698**	**0.0430**		**1.2743**	**1.2743**		**1.1892**	**1.1892**	**0.0000**	**4,110.5322**	**4,110.5322**	**1.1153**		**4,138.4135**

3.5 Building Construction - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.5786	21.9509	4.0266	0.0642	1.5371	0.0333	1.5704	0.4426	0.0319	0.4745		6,775.3820	6,775.3820	0.4167		6,785.7993
Worker	2.9181	1.7366	23.3888	0.0651	6.8743	0.0427	6.9169	1.8231	0.0393	1.8624		6,485.8049	6,485.8049	0.1718		6,490.0992
Total	**3.4967**	**23.6875**	**27.4154**	**0.1293**	**8.4114**	**0.0760**	**8.4874**	**2.2657**	**0.0712**	**2.3368**		**13,261.1869**	**13,261.1869**	**0.5885**		**13,275.8985**

3.6 Architectural Coating - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	52.7739					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2727	1.8780	2.4181	3.9600e-003		0.1090	0.1090		0.1090	0.1090		375.2641	375.2641	0.0244		375.8749
Total	**53.0466**	**1.8780**	**2.4181**	**3.9600e-003**		**0.1090**	**0.1090**		**0.1090**	**0.1090**		**375.2641**	**375.2641**	**0.0244**		**375.8749**

3.6 Architectural Coating - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.5836	0.3473	4.6778	0.0130	1.3749	8.5400e-003	1.3834	0.3646	7.8600e-003	0.3725		1,297.1610	1,297.1610	0.0344		1,298.0198
Total	**0.5836**	**0.3473**	**4.6778**	**0.0130**	**1.3749**	**8.5400e-003**	**1.3834**	**0.3646**	**7.8600e-003**	**0.3725**		**1,297.1610**	**1,297.1610**	**0.0344**		**1,298.0198**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	52.7739					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2727	1.8780	2.4181	3.9600e-003		0.1090	0.1090		0.1090	0.1090	0.0000	375.2641	375.2641	0.0244		375.8749
Total	**53.0466**	**1.8780**	**2.4181**	**3.9600e-003**		**0.1090**	**0.1090**		**0.1090**	**0.1090**	**0.0000**	**375.2641**	**375.2641**	**0.0244**		**375.8749**

3.6 Architectural Coating - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.5836	0.3473	4.6778	0.0130	1.3749	8.5400e-003	1.3834	0.3646	7.8600e-003	0.3725		1,297.1610	1,297.1610	0.0344		1,298.0198
Total	**0.5836**	**0.3473**	**4.6778**	**0.0130**	**1.3749**	**8.5400e-003**	**1.3834**	**0.3646**	**7.8600e-003**	**0.3725**		**1,297.1610**	**1,297.1610**	**0.0344**		**1,298.0198**

3.7 Paving - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.1028	11.1249	14.5805	0.0228		0.5679	0.5679		0.5225	0.5225		2,207.6603	2,207.6603	0.7140		2,225.5104
Paving	0.9926					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**2.0954**	**11.1249**	**14.5805**	**0.0228**		**0.5679**	**0.5679**		**0.5225**	**0.5225**		**2,207.6603**	**2,207.6603**	**0.7140**		**2,225.5104**

3.7 Paving - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0712	0.0424	0.5705	1.5900e-003	0.1677	1.0400e-003	0.1687	0.0445	9.6000e-004	0.0454		158.1904	158.1904	4.1900e-003		158.2951
Total	**0.0712**	**0.0424**	**0.5705**	**1.5900e-003**	**0.1677**	**1.0400e-003**	**0.1687**	**0.0445**	**9.6000e-004**	**0.0454**		**158.1904**	**158.1904**	**4.1900e-003**		**158.2951**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.1028	11.1249	14.5805	0.0228		0.5679	0.5679		0.5225	0.5225	0.0000	2,207.6603	2,207.6603	0.7140		2,225.5104
Paving	0.9926					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**2.0954**	**11.1249**	**14.5805**	**0.0228**		**0.5679**	**0.5679**		**0.5225**	**0.5225**	**0.0000**	**2,207.6603**	**2,207.6603**	**0.7140**		**2,225.5104**

3.7 Paving - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0712	0.0424	0.5705	1.5900e-003	0.1677	1.0400e-003	0.1687	0.0445	9.6000e-004	0.0454		158.1904	158.1904	4.1900e-003		158.2951
Total	**0.0712**	**0.0424**	**0.5705**	**1.5900e-003**	**0.1677**	**1.0400e-003**	**0.1687**	**0.0445**	**9.6000e-004**	**0.0454**		**158.1904**	**158.1904**	**4.1900e-003**		**158.2951**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Other Asphalt Surfaces	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Unrefrigerated Warehouse-No Rail	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0
Other Non-Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0
Unrefrigerated Warehouse-No	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Other Asphalt Surfaces	0.553113	0.036408	0.180286	0.116335	0.016165	0.005101	0.018218	0.063797	0.001357	0.001565	0.005903	0.000808	0.000944
Other Non-Asphalt Surfaces	0.553113	0.036408	0.180286	0.116335	0.016165	0.005101	0.018218	0.063797	0.001357	0.001565	0.005903	0.000808	0.000944
Parking Lot	0.553113	0.036408	0.180286	0.116335	0.016165	0.005101	0.018218	0.063797	0.001357	0.001565	0.005903	0.000808	0.000944
Unrefrigerated Warehouse-No Rail	0.553113	0.036408	0.180286	0.116335	0.016165	0.005101	0.018218	0.063797	0.001357	0.001565	0.005903	0.000808	0.000944

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
NaturalGas Unmitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	17.1751	1.5900e-003	0.1746	1.0000e-005		6.2000e-004	6.2000e-004		6.2000e-004	6.2000e-004		0.3736	0.3736	9.9000e-004		0.3982
Unmitigated	17.1751	1.5900e-003	0.1746	1.0000e-005		6.2000e-004	6.2000e-004		6.2000e-004	6.2000e-004		0.3736	0.3736	9.9000e-004		0.3982

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	1.9701					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	15.1888					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0162	1.5900e-003	0.1746	1.0000e-005		6.2000e-004	6.2000e-004		6.2000e-004	6.2000e-004		0.3736	0.3736	9.9000e-004		0.3982
Total	**17.1751**	**1.5900e-003**	**0.1746**	**1.0000e-005**		**6.2000e-004**	**6.2000e-004**		**6.2000e-004**	**6.2000e-004**		**0.3736**	**0.3736**	**9.9000e-004**		**0.3982**

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	1.9701					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	15.1888					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0162	1.5900e-003	0.1746	1.0000e-005		6.2000e-004	6.2000e-004		6.2000e-004	6.2000e-004		0.3736	0.3736	9.9000e-004		0.3982
Total	**17.1751**	**1.5900e-003**	**0.1746**	**1.0000e-005**		**6.2000e-004**	**6.2000e-004**		**6.2000e-004**	**6.2000e-004**		**0.3736**	**0.3736**	**9.9000e-004**		**0.3982**

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

Fontana Foothills Commerce Center (Construction - Unmitigated)

San Bernardino-South Coast County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Unrefrigerated Warehouse-No Rail	754.41	1000sqft	17.32	754,408.00	0
Other Asphalt Surfaces	415.94	1000sqft	9.55	415,944.00	0
Other Non-Asphalt Surfaces	132.59	1000sqft	3.04	132,592.00	0
Parking Lot	404.00	Space	3.71	161,600.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	32
Climate Zone	10			**Operational Year**	2022
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	702.44	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - Unrefrigerated Warehouse - No Rail = High-Cube Short-Term Warehouse; Parking Lot = 404 Standard Spaces; Other Non-Asphalt Surfaces = Landscape area; Other Asphalt Surfaces = Balance

Construction Phase - Construction Schedule adjusted per information provided by the Project Applicant.

Off-road Equipment - Hours are based on an 8-hour workday.

Off-road Equipment - Crawler Tractors used in lieu of Tractors/Loaders/Backhoes.

Off-road Equipment - Crawler Tractors used in lieu of Tractors/Loaders/Backhoes.

Off-road Equipment -

Off-road Equipment - Crawler Tractors used in lieu of Tractors/Loaders/Backhoes.

Demolition -

Grading - For purposes of analysis, total acres graded per day is based on the equipment specific grading rates (CalEEMod Appendix A) and the equipment list.

Architectural Coating - Rule 1113

Vehicle Trips - Construction Run Only.

Energy Use - Construction Run Only.

Water And Wastewater - Construction Run Only.

Solid Waste - Construction Run Only.

Construction Off-road Equipment Mitigation - Rule 403

Vehicle Emission Factors - EMFAC2017

Vehicle Emission Factors - EMFAC2017

Vehicle Emission Factors - EMFAC2017

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	100.00	50.00
tblArchitecturalCoating	EF_Nonresidential_Interior	100.00	50.00
tblConstructionPhase	NumDays	500.00	180.00
tblConstructionPhase	NumDays	35.00	70.00
tblEnergyUse	LightingElect	0.35	0.00
tblEnergyUse	LightingElect	1.17	0.00

tblEnergyUse	NT24E	0.82	0.00
tblEnergyUse	NT24NG	0.03	0.00
tblEnergyUse	T24E	0.37	0.00
tblEnergyUse	T24NG	2.00	0.00
tblGrading	AcresOfGrading	157.50	180.00
tblGrading	AcresOfGrading	40.00	70.00
tblLandUse	LotAcreage	3.64	3.71
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblSolidWaste	SolidWasteGenerationRate	709.15	0.00
tblVehicleEF	HHD	1.21	0.03
tblVehicleEF	HHD	0.04	0.06
tblVehicleEF	HHD	0.10	0.00
tblVehicleEF	HHD	3.29	8.22
tblVehicleEF	HHD	0.57	0.40
tblVehicleEF	HHD	1.82	2.2600e-003
tblVehicleEF	HHD	6,933.41	1,478.27
tblVehicleEF	HHD	1,475.79	1,372.23
tblVehicleEF	HHD	5.54	0.02
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tblVehicleEF	HHD	2.50	2.77
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tblVehicleEF	HHD	0.04	0.04
tblVehicleEF	HHD	0.01	0.03
tblVehicleEF	HHD	5.1000e-005	1.0000e-006
tblVehicleEF	HHD	9.3550e-003	3.6010e-003
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	8.8810e-003	8.9170e-003
tblVehicleEF	HHD	0.01	0.03
tblVehicleEF	HHD	4.7000e-005	1.0000e-006
tblVehicleEF	HHD	8.5000e-005	3.0000e-006
tblVehicleEF	HHD	3.1910e-003	1.0400e-004
tblVehicleEF	HHD	0.84	0.59
tblVehicleEF	HHD	5.2000e-005	2.0000e-006
tblVehicleEF	HHD	0.08	0.05
tblVehicleEF	HHD	2.1700e-004	5.2200e-004
tblVehicleEF	HHD	0.05	1.0000e-006
tblVehicleEF	HHD	0.07	0.01
tblVehicleEF	HHD	0.01	0.01
tblVehicleEF	HHD	8.6000e-005	0.00
tblVehicleEF	HHD	8.5000e-005	3.0000e-006
tblVehicleEF	HHD	3.1910e-003	1.0400e-004
tblVehicleEF	HHD	0.97	0.67
tblVehicleEF	HHD	5.2000e-005	2.0000e-006
tblVehicleEF	HHD	0.13	0.12
tblVehicleEF	HHD	2.1700e-004	5.2200e-004
tblVehicleEF	HHD	0.06	1.0000e-006
tblVehicleEF	HHD	1.14	0.03
tblVehicleEF	HHD	0.04	0.06

tblVehicleEF	HHD	0.09	0.00
tblVehicleEF	HHD	2.39	8.07
tblVehicleEF	HHD	0.57	0.40
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tblVehicleEF	HHD	7,345.18	1,469.16
tblVehicleEF	HHD	1,475.79	1,372.23
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tblVehicleEF	HHD	0.04	0.04
tblVehicleEF	HHD	0.01	0.03
tblVehicleEF	HHD	5.1000e-005	1.0000e-006
tblVehicleEF	HHD	7.9170e-003	3.2000e-003
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	8.8810e-003	8.9170e-003
tblVehicleEF	HHD	0.01	0.03
tblVehicleEF	HHD	4.7000e-005	1.0000e-006
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tblVehicleEF	HHD	2.2100e-004	5.3900e-004
tblVehicleEF	HHD	0.05	1.0000e-006
tblVehicleEF	HHD	0.07	0.01

tblVehicleEF	HHD	0.01	0.01
tblVehicleEF	HHD	8.4000e-005	0.00
tblVehicleEF	HHD	1.6800e-004	7.0000e-006
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tblVehicleEF	HHD	0.57	0.25
tblVehicleEF	HHD	1.79	2.2320e-003
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tblVehicleEF	HHD	0.06	0.06
tblVehicleEF	HHD	0.04	0.04
tblVehicleEF	HHD	0.01	0.03
tblVehicleEF	HHD	5.1000e-005	1.0000e-006
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tblVehicleEF	HHD	0.03	0.03

tblVehicleEF	HHD	8.8810e-003	8.8160e-003
tblVehicleEF	HHD	0.01	0.03
tblVehicleEF	HHD	4.7000e-005	1.0000e-006
tblVehicleEF	HHD	8.5000e-005	4.0000e-006
tblVehicleEF	HHD	3.4760e-003	1.2300e-004
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tblVehicleEF	HHD	2.3300e-004	5.4600e-004
tblVehicleEF	HHD	0.05	1.0000e-006
tblVehicleEF	HHD	0.06	0.01
tblVehicleEF	HHD	0.01	0.01
tblVehicleEF	HHD	8.5000e-005	0.00
tblVehicleEF	HHD	8.5000e-005	4.0000e-006
tblVehicleEF	HHD	3.4760e-003	1.2300e-004
tblVehicleEF	HHD	1.05	0.62
tblVehicleEF	HHD	5.2000e-005	2.0000e-006
tblVehicleEF	HHD	0.13	0.06
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tblVehicleEF	LDA	0.10	0.10
tblVehicleEF	LDA	0.03	0.05
tblVehicleEF	LDA	0.01	9.3320e-003
tblVehicleEF	LDA	0.03	0.21
tblVehicleEF	LDA	0.08	0.23
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tblVehicleEF	LDA	0.10	0.10
tblVehicleEF	LDA	0.03	0.05
tblVehicleEF	LDA	0.02	0.01
tblVehicleEF	LDA	0.03	0.21
tblVehicleEF	LDA	0.08	0.25
tblVehicleEF	LDA	4.7900e-003	2.7940e-003
tblVehicleEF	LDA	4.6890e-003	0.04
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tblVehicleEF	LDA	57.15	53.16
tblVehicleEF	LDA	0.05	0.04
tblVehicleEF	LDA	1.6780e-003	1.4470e-003
tblVehicleEF	LDA	2.2790e-003	1.8580e-003

tblVehicleEF	LDA	1.5460e-003	1.3330e-003
tblVehicleEF	LDA	2.0960e-003	1.7080e-003
tblVehicleEF	LDA	0.09	0.12
tblVehicleEF	LDA	0.12	0.12
tblVehicleEF	LDA	0.07	0.10
tblVehicleEF	LDA	0.01	0.01
tblVehicleEF	LDA	0.03	0.21
tblVehicleEF	LDA	0.06	0.19
tblVehicleEF	LDA	2.7550e-003	2.8250e-003
tblVehicleEF	LDA	5.8800e-004	5.2600e-004
tblVehicleEF	LDA	0.09	0.12
tblVehicleEF	LDA	0.12	0.12
tblVehicleEF	LDA	0.07	0.10
tblVehicleEF	LDA	0.02	0.02
tblVehicleEF	LDA	0.03	0.21
tblVehicleEF	LDA	0.07	0.21
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tblVehicleEF	LDA	0.05	0.04
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tblVehicleEF	LDA	2.0960e-003	1.7080e-003

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tblVehicleEF	LDA	0.03	0.05
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tblVehicleEF	LDA	5.9100e-004	5.3200e-004
tblVehicleEF	LDA	0.05	0.06
tblVehicleEF	LDA	0.11	0.11
tblVehicleEF	LDA	0.03	0.05
tblVehicleEF	LDA	0.01	0.01
tblVehicleEF	LDA	0.04	0.24
tblVehicleEF	LDA	0.08	0.25
tblVehicleEF	LDT1	0.01	7.0610e-003
tblVehicleEF	LDT1	0.02	0.08
tblVehicleEF	LDT1	1.54	1.44
tblVehicleEF	LDT1	3.61	2.44
tblVehicleEF	LDT1	313.68	310.02
tblVehicleEF	LDT1	70.93	65.50
tblVehicleEF	LDT1	0.16	0.13
tblVehicleEF	LDT1	2.7050e-003	2.1940e-003
tblVehicleEF	LDT1	3.6920e-003	2.8520e-003
tblVehicleEF	LDT1	2.4910e-003	2.0190e-003
tblVehicleEF	LDT1	3.3960e-003	2.6220e-003
tblVehicleEF	LDT1	0.18	0.19
tblVehicleEF	LDT1	0.33	0.26

tblVehicleEF	LDT1	0.13	0.13
tblVehicleEF	LDT1	0.03	0.03
tblVehicleEF	LDT1	0.20	0.88
tblVehicleEF	LDT1	0.26	0.43
tblVehicleEF	LDT1	3.1570e-003	3.0680e-003
tblVehicleEF	LDT1	7.7300e-004	6.4800e-004
tblVehicleEF	LDT1	0.18	0.19
tblVehicleEF	LDT1	0.33	0.26
tblVehicleEF	LDT1	0.13	0.13
tblVehicleEF	LDT1	0.05	0.05
tblVehicleEF	LDT1	0.20	0.88
tblVehicleEF	LDT1	0.28	0.48
tblVehicleEF	LDT1	0.02	8.0100e-003
tblVehicleEF	LDT1	0.02	0.07
tblVehicleEF	LDT1	1.85	1.74
tblVehicleEF	LDT1	2.97	2.02
tblVehicleEF	LDT1	341.75	335.16
tblVehicleEF	LDT1	70.93	64.59
tblVehicleEF	LDT1	0.14	0.12
tblVehicleEF	LDT1	2.7050e-003	2.1940e-003
tblVehicleEF	LDT1	3.6920e-003	2.8520e-003
tblVehicleEF	LDT1	2.4910e-003	2.0190e-003
tblVehicleEF	LDT1	3.3960e-003	2.6220e-003
tblVehicleEF	LDT1	0.37	0.40
tblVehicleEF	LDT1	0.41	0.33
tblVehicleEF	LDT1	0.27	0.29
tblVehicleEF	LDT1	0.04	0.04

tblVehicleEF	LDT1	0.20	0.88
tblVehicleEF	LDT1	0.21	0.36
tblVehicleEF	LDT1	3.4420e-003	3.3170e-003
tblVehicleEF	LDT1	7.6200e-004	6.3900e-004
tblVehicleEF	LDT1	0.37	0.40
tblVehicleEF	LDT1	0.41	0.33
tblVehicleEF	LDT1	0.27	0.29
tblVehicleEF	LDT1	0.06	0.05
tblVehicleEF	LDT1	0.20	0.88
tblVehicleEF	LDT1	0.23	0.40
tblVehicleEF	LDT1	0.01	6.8960e-003
tblVehicleEF	LDT1	0.02	0.08
tblVehicleEF	LDT1	1.47	1.37
tblVehicleEF	LDT1	3.55	2.40
tblVehicleEF	LDT1	307.06	304.06
tblVehicleEF	LDT1	70.93	65.42
tblVehicleEF	LDT1	0.15	0.12
tblVehicleEF	LDT1	2.7050e-003	2.1940e-003
tblVehicleEF	LDT1	3.6920e-003	2.8520e-003
tblVehicleEF	LDT1	2.4910e-003	2.0190e-003
tblVehicleEF	LDT1	3.3960e-003	2.6220e-003
tblVehicleEF	LDT1	0.19	0.20
tblVehicleEF	LDT1	0.39	0.30
tblVehicleEF	LDT1	0.12	0.12
tblVehicleEF	LDT1	0.03	0.03
tblVehicleEF	LDT1	0.23	1.03
tblVehicleEF	LDT1	0.25	0.43

tblVehicleEF	LDT1	3.0890e-003	3.0090e-003
tblVehicleEF	LDT1	7.7200e-004	6.4700e-004
tblVehicleEF	LDT1	0.19	0.20
tblVehicleEF	LDT1	0.39	0.30
tblVehicleEF	LDT1	0.12	0.12
tblVehicleEF	LDT1	0.05	0.04
tblVehicleEF	LDT1	0.23	1.03
tblVehicleEF	LDT1	0.28	0.47
tblVehicleEF	LDT2	6.3270e-003	4.2800e-003
tblVehicleEF	LDT2	8.1990e-003	0.07
tblVehicleEF	LDT2	0.80	0.97
tblVehicleEF	LDT2	1.67	2.78
tblVehicleEF	LDT2	351.15	331.49
tblVehicleEF	LDT2	79.39	70.30
tblVehicleEF	LDT2	0.09	0.09
tblVehicleEF	LDT2	1.7270e-003	1.5180e-003
tblVehicleEF	LDT2	2.4170e-003	1.9480e-003
tblVehicleEF	LDT2	1.5880e-003	1.3970e-003
tblVehicleEF	LDT2	2.2220e-003	1.7910e-003
tblVehicleEF	LDT2	0.06	0.10
tblVehicleEF	LDT2	0.13	0.15
tblVehicleEF	LDT2	0.05	0.08
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.07	0.48
tblVehicleEF	LDT2	0.11	0.35
tblVehicleEF	LDT2	3.5180e-003	3.2800e-003
tblVehicleEF	LDT2	8.2200e-004	6.9600e-004

tblVehicleEF	LDT2	0.06	0.10
tblVehicleEF	LDT2	0.13	0.15
tblVehicleEF	LDT2	0.05	0.08
tblVehicleEF	LDT2	0.02	0.03
tblVehicleEF	LDT2	0.07	0.48
tblVehicleEF	LDT2	0.12	0.38
tblVehicleEF	LDT2	7.1840e-003	4.8870e-003
tblVehicleEF	LDT2	6.8290e-003	0.06
tblVehicleEF	LDT2	0.97	1.18
tblVehicleEF	LDT2	1.38	2.30
tblVehicleEF	LDT2	383.36	355.94
tblVehicleEF	LDT2	79.39	69.35
tblVehicleEF	LDT2	0.08	0.08
tblVehicleEF	LDT2	1.7270e-003	1.5180e-003
tblVehicleEF	LDT2	2.4170e-003	1.9480e-003
tblVehicleEF	LDT2	1.5880e-003	1.3970e-003
tblVehicleEF	LDT2	2.2220e-003	1.7910e-003
tblVehicleEF	LDT2	0.13	0.21
tblVehicleEF	LDT2	0.15	0.18
tblVehicleEF	LDT2	0.11	0.18
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.07	0.48
tblVehicleEF	LDT2	0.09	0.29
tblVehicleEF	LDT2	3.8420e-003	3.5220e-003
tblVehicleEF	LDT2	8.1700e-004	6.8600e-004
tblVehicleEF	LDT2	0.13	0.21
tblVehicleEF	LDT2	0.15	0.18

tblVehicleEF	LDT2	0.11	0.18
tblVehicleEF	LDT2	0.03	0.03
tblVehicleEF	LDT2	0.07	0.48
tblVehicleEF	LDT2	0.10	0.32
tblVehicleEF	LDT2	6.1560e-003	4.1770e-003
tblVehicleEF	LDT2	8.1410e-003	0.07
tblVehicleEF	LDT2	0.75	0.92
tblVehicleEF	LDT2	1.64	2.74
tblVehicleEF	LDT2	343.55	325.69
tblVehicleEF	LDT2	79.39	70.22
tblVehicleEF	LDT2	0.08	0.09
tblVehicleEF	LDT2	1.7270e-003	1.5180e-003
tblVehicleEF	LDT2	2.4170e-003	1.9480e-003
tblVehicleEF	LDT2	1.5880e-003	1.3970e-003
tblVehicleEF	LDT2	2.2220e-003	1.7910e-003
tblVehicleEF	LDT2	0.06	0.10
tblVehicleEF	LDT2	0.14	0.16
tblVehicleEF	LDT2	0.05	0.08
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.08	0.56
tblVehicleEF	LDT2	0.11	0.35
tblVehicleEF	LDT2	3.4410e-003	3.2220e-003
tblVehicleEF	LDT2	8.2200e-004	6.9500e-004
tblVehicleEF	LDT2	0.06	0.10
tblVehicleEF	LDT2	0.14	0.16
tblVehicleEF	LDT2	0.05	0.08
tblVehicleEF	LDT2	0.02	0.03

tblVehicleEF	LDT2	0.08	0.56
tblVehicleEF	LDT2	0.12	0.38
tblVehicleEF	LHD1	5.2170e-003	4.8640e-003
tblVehicleEF	LHD1	0.01	6.5090e-003
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	0.14	0.17
tblVehicleEF	LHD1	1.07	0.88
tblVehicleEF	LHD1	2.60	1.03
tblVehicleEF	LHD1	9.23	9.35
tblVehicleEF	LHD1	609.20	648.62
tblVehicleEF	LHD1	30.40	10.79
tblVehicleEF	LHD1	0.09	0.08
tblVehicleEF	LHD1	2.12	1.54
tblVehicleEF	LHD1	9.6500e-004	9.5300e-004
tblVehicleEF	LHD1	0.01	9.9680e-003
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	9.5800e-004	2.6300e-004
tblVehicleEF	LHD1	9.2400e-004	9.1200e-004
tblVehicleEF	LHD1	2.5390e-003	2.4920e-003
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	8.8100e-004	2.4200e-004
tblVehicleEF	LHD1	3.7070e-003	3.1750e-003
tblVehicleEF	LHD1	0.11	0.09
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	1.8240e-003	1.5420e-003
tblVehicleEF	LHD1	0.08	0.07
tblVehicleEF	LHD1	0.35	0.60

tblVehicleEF	LHD1	0.27	0.08
tblVehicleEF	LHD1	9.2000e-005	9.0000e-005
tblVehicleEF	LHD1	5.9760e-003	6.3130e-003
tblVehicleEF	LHD1	3.5300e-004	1.0700e-004
tblVehicleEF	LHD1	3.7070e-003	3.1750e-003
tblVehicleEF	LHD1	0.11	0.09
tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	1.8240e-003	1.5420e-003
tblVehicleEF	LHD1	0.10	0.08
tblVehicleEF	LHD1	0.35	0.60
tblVehicleEF	LHD1	0.29	0.09
tblVehicleEF	LHD1	5.2170e-003	4.8790e-003
tblVehicleEF	LHD1	0.01	6.6670e-003
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	0.14	0.17
tblVehicleEF	LHD1	1.09	0.90
tblVehicleEF	LHD1	2.43	0.97
tblVehicleEF	LHD1	9.23	9.35
tblVehicleEF	LHD1	609.20	648.66
tblVehicleEF	LHD1	30.40	10.67
tblVehicleEF	LHD1	0.09	0.08
tblVehicleEF	LHD1	1.98	1.44
tblVehicleEF	LHD1	9.6500e-004	9.5300e-004
tblVehicleEF	LHD1	0.01	9.9680e-003
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	9.5800e-004	2.6300e-004
tblVehicleEF	LHD1	9.2400e-004	9.1200e-004

tblVehicleEF	LHD1	2.5390e-003	2.4920e-003
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	8.8100e-004	2.4200e-004
tblVehicleEF	LHD1	7.3080e-003	6.2980e-003
tblVehicleEF	LHD1	0.13	0.11
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	4.1220e-003	3.5370e-003
tblVehicleEF	LHD1	0.09	0.07
tblVehicleEF	LHD1	0.36	0.60
tblVehicleEF	LHD1	0.25	0.08
tblVehicleEF	LHD1	9.2000e-005	9.0000e-005
tblVehicleEF	LHD1	5.9770e-003	6.3140e-003
tblVehicleEF	LHD1	3.5000e-004	1.0600e-004
tblVehicleEF	LHD1	7.3080e-003	6.2980e-003
tblVehicleEF	LHD1	0.13	0.11
tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	4.1220e-003	3.5370e-003
tblVehicleEF	LHD1	0.11	0.09
tblVehicleEF	LHD1	0.36	0.60
tblVehicleEF	LHD1	0.28	0.08
tblVehicleEF	LHD1	5.2170e-003	4.8670e-003
tblVehicleEF	LHD1	0.01	6.5250e-003
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	0.14	0.17
tblVehicleEF	LHD1	1.07	0.89
tblVehicleEF	LHD1	2.55	1.02
tblVehicleEF	LHD1	9.23	9.35

tblVehicleEF	LHD1	609.20	648.63
tblVehicleEF	LHD1	30.40	10.76
tblVehicleEF	LHD1	0.09	0.08
tblVehicleEF	LHD1	2.08	1.51
tblVehicleEF	LHD1	9.6500e-004	9.5300e-004
tblVehicleEF	LHD1	0.01	9.9680e-003
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	9.5800e-004	2.6300e-004
tblVehicleEF	LHD1	9.2400e-004	9.1200e-004
tblVehicleEF	LHD1	2.5390e-003	2.4920e-003
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	8.8100e-004	2.4200e-004
tblVehicleEF	LHD1	4.0430e-003	3.5090e-003
tblVehicleEF	LHD1	0.13	0.10
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	1.7940e-003	1.5200e-003
tblVehicleEF	LHD1	0.08	0.07
tblVehicleEF	LHD1	0.38	0.64
tblVehicleEF	LHD1	0.26	0.08
tblVehicleEF	LHD1	9.2000e-005	9.0000e-005
tblVehicleEF	LHD1	5.9760e-003	6.3130e-003
tblVehicleEF	LHD1	3.5200e-004	1.0600e-004
tblVehicleEF	LHD1	4.0430e-003	3.5090e-003
tblVehicleEF	LHD1	0.13	0.10
tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	1.7940e-003	1.5200e-003
tblVehicleEF	LHD1	0.10	0.08

tblVehicleEF	LHD1	0.38	0.64
tblVehicleEF	LHD1	0.29	0.09
tblVehicleEF	LHD2	3.5950e-003	3.3090e-003
tblVehicleEF	LHD2	4.6110e-003	4.1580e-003
tblVehicleEF	LHD2	8.1370e-003	9.5080e-003
tblVehicleEF	LHD2	0.12	0.14
tblVehicleEF	LHD2	0.50	0.56
tblVehicleEF	LHD2	1.20	0.61
tblVehicleEF	LHD2	14.27	14.55
tblVehicleEF	LHD2	608.52	648.96
tblVehicleEF	LHD2	24.46	7.78
tblVehicleEF	LHD2	0.11	0.11
tblVehicleEF	LHD2	1.49	1.65
tblVehicleEF	LHD2	1.2830e-003	1.4030e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	4.0000e-004	1.2600e-004
tblVehicleEF	LHD2	1.2280e-003	1.3430e-003
tblVehicleEF	LHD2	2.6860e-003	2.6930e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	3.6800e-004	1.1600e-004
tblVehicleEF	LHD2	1.3070e-003	1.5580e-003
tblVehicleEF	LHD2	0.04	0.05
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	7.0300e-004	8.0000e-004
tblVehicleEF	LHD2	0.06	0.06
tblVehicleEF	LHD2	0.09	0.29

tblVehicleEF	LHD2	0.11	0.05
tblVehicleEF	LHD2	5.9200e-003	6.2610e-003
tblVehicleEF	LHD2	2.6700e-004	7.7000e-005
tblVehicleEF	LHD2	1.3070e-003	1.5580e-003
tblVehicleEF	LHD2	0.04	0.05
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	7.0300e-004	8.0000e-004
tblVehicleEF	LHD2	0.07	0.07
tblVehicleEF	LHD2	0.09	0.29
tblVehicleEF	LHD2	0.12	0.05
tblVehicleEF	LHD2	3.5950e-003	3.3190e-003
tblVehicleEF	LHD2	4.6760e-003	4.2030e-003
tblVehicleEF	LHD2	7.7630e-003	9.0810e-003
tblVehicleEF	LHD2	0.12	0.14
tblVehicleEF	LHD2	0.50	0.56
tblVehicleEF	LHD2	1.13	0.57
tblVehicleEF	LHD2	14.27	14.55
tblVehicleEF	LHD2	608.52	648.97
tblVehicleEF	LHD2	24.46	7.71
tblVehicleEF	LHD2	0.11	0.11
tblVehicleEF	LHD2	1.40	1.55
tblVehicleEF	LHD2	1.2830e-003	1.4030e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	4.0000e-004	1.2600e-004
tblVehicleEF	LHD2	1.2280e-003	1.3430e-003
tblVehicleEF	LHD2	2.6860e-003	2.6930e-003

tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	3.6800e-004	1.1600e-004
tblVehicleEF	LHD2	2.5220e-003	3.0280e-003
tblVehicleEF	LHD2	0.04	0.06
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	1.5220e-003	1.7650e-003
tblVehicleEF	LHD2	0.06	0.06
tblVehicleEF	LHD2	0.09	0.29
tblVehicleEF	LHD2	0.10	0.04
tblVehicleEF	LHD2	5.9200e-003	6.2610e-003
tblVehicleEF	LHD2	2.6500e-004	7.6000e-005
tblVehicleEF	LHD2	2.5220e-003	3.0280e-003
tblVehicleEF	LHD2	0.04	0.06
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	1.5220e-003	1.7650e-003
tblVehicleEF	LHD2	0.07	0.07
tblVehicleEF	LHD2	0.09	0.29
tblVehicleEF	LHD2	0.11	0.05
tblVehicleEF	LHD2	3.5950e-003	3.3110e-003
tblVehicleEF	LHD2	4.6180e-003	4.1630e-003
tblVehicleEF	LHD2	8.0640e-003	9.4270e-003
tblVehicleEF	LHD2	0.12	0.14
tblVehicleEF	LHD2	0.50	0.56
tblVehicleEF	LHD2	1.19	0.60
tblVehicleEF	LHD2	14.27	14.55
tblVehicleEF	LHD2	608.52	648.96
tblVehicleEF	LHD2	24.46	7.77

tblVehicleEF	LHD2	0.11	0.11
tblVehicleEF	LHD2	1.46	1.62
tblVehicleEF	LHD2	1.2830e-003	1.4030e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	4.0000e-004	1.2600e-004
tblVehicleEF	LHD2	1.2280e-003	1.3430e-003
tblVehicleEF	LHD2	2.6860e-003	2.6930e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	3.6800e-004	1.1600e-004
tblVehicleEF	LHD2	1.3460e-003	1.6400e-003
tblVehicleEF	LHD2	0.04	0.05
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	6.8700e-004	7.8100e-004
tblVehicleEF	LHD2	0.06	0.06
tblVehicleEF	LHD2	0.10	0.31
tblVehicleEF	LHD2	0.11	0.05
tblVehicleEF	LHD2	5.9200e-003	6.2610e-003
tblVehicleEF	LHD2	2.6600e-004	7.7000e-005
tblVehicleEF	LHD2	1.3460e-003	1.6400e-003
tblVehicleEF	LHD2	0.04	0.05
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	6.8700e-004	7.8100e-004
tblVehicleEF	LHD2	0.07	0.07
tblVehicleEF	LHD2	0.10	0.31
tblVehicleEF	LHD2	0.12	0.05
tblVehicleEF	MCY	0.43	0.33

tblVehicleEF	MCY	0.16	0.25
tblVehicleEF	MCY	20.55	20.74
tblVehicleEF	MCY	9.93	8.78
tblVehicleEF	MCY	167.73	210.98
tblVehicleEF	MCY	46.45	61.55
tblVehicleEF	MCY	1.16	1.17
tblVehicleEF	MCY	1.8610e-003	1.8280e-003
tblVehicleEF	MCY	3.6730e-003	3.0520e-003
tblVehicleEF	MCY	1.7420e-003	1.7110e-003
tblVehicleEF	MCY	3.4650e-003	2.8770e-003
tblVehicleEF	MCY	1.45	1.44
tblVehicleEF	MCY	0.84	0.84
tblVehicleEF	MCY	0.80	0.80
tblVehicleEF	MCY	2.23	2.23
tblVehicleEF	MCY	0.49	2.04
tblVehicleEF	MCY	2.16	1.90
tblVehicleEF	MCY	2.0770e-003	2.0880e-003
tblVehicleEF	MCY	6.9000e-004	6.0900e-004
tblVehicleEF	MCY	1.45	1.44
tblVehicleEF	MCY	0.84	0.84
tblVehicleEF	MCY	0.80	0.80
tblVehicleEF	MCY	2.74	2.74
tblVehicleEF	MCY	0.49	2.04
tblVehicleEF	MCY	2.35	2.07
tblVehicleEF	MCY	0.42	0.32
tblVehicleEF	MCY	0.14	0.22
tblVehicleEF	MCY	20.68	20.87

tblVehicleEF	MCY	9.05	7.97
tblVehicleEF	MCY	167.73	210.98
tblVehicleEF	MCY	46.45	59.35
tblVehicleEF	MCY	0.99	0.99
tblVehicleEF	MCY	1.8610e-003	1.8280e-003
tblVehicleEF	MCY	3.6730e-003	3.0520e-003
tblVehicleEF	MCY	1.7420e-003	1.7110e-003
tblVehicleEF	MCY	3.4650e-003	2.8770e-003
tblVehicleEF	MCY	3.14	3.14
tblVehicleEF	MCY	1.27	1.28
tblVehicleEF	MCY	2.13	2.12
tblVehicleEF	MCY	2.17	2.17
tblVehicleEF	MCY	0.49	2.03
tblVehicleEF	MCY	1.86	1.63
tblVehicleEF	MCY	2.0770e-003	2.0880e-003
tblVehicleEF	MCY	6.6700e-004	5.8700e-004
tblVehicleEF	MCY	3.14	3.14
tblVehicleEF	MCY	1.27	1.28
tblVehicleEF	MCY	2.13	2.12
tblVehicleEF	MCY	2.67	2.67
tblVehicleEF	MCY	0.49	2.03
tblVehicleEF	MCY	2.02	1.77
tblVehicleEF	MCY	0.42	0.32
tblVehicleEF	MCY	0.15	0.24
tblVehicleEF	MCY	19.63	19.79
tblVehicleEF	MCY	9.55	8.43
tblVehicleEF	MCY	167.73	209.35

tblVehicleEF	MCY	46.45	60.75
tblVehicleEF	MCY	1.12	1.12
tblVehicleEF	MCY	1.8610e-003	1.8280e-003
tblVehicleEF	MCY	3.6730e-003	3.0520e-003
tblVehicleEF	MCY	1.7420e-003	1.7110e-003
tblVehicleEF	MCY	3.4650e-003	2.8770e-003
tblVehicleEF	MCY	1.71	1.70
tblVehicleEF	MCY	1.13	1.12
tblVehicleEF	MCY	0.72	0.71
tblVehicleEF	MCY	2.19	2.20
tblVehicleEF	MCY	0.56	2.32
tblVehicleEF	MCY	2.08	1.83
tblVehicleEF	MCY	2.0610e-003	2.0720e-003
tblVehicleEF	MCY	6.8200e-004	6.0100e-004
tblVehicleEF	MCY	1.71	1.70
tblVehicleEF	MCY	1.13	1.12
tblVehicleEF	MCY	0.72	0.71
tblVehicleEF	MCY	2.69	2.69
tblVehicleEF	MCY	0.56	2.32
tblVehicleEF	MCY	2.27	1.99
tblVehicleEF	MDV	0.01	5.5560e-003
tblVehicleEF	MDV	0.02	0.09
tblVehicleEF	MDV	1.35	1.14
tblVehicleEF	MDV	3.25	3.33
tblVehicleEF	MDV	483.94	412.02
tblVehicleEF	MDV	107.92	87.05
tblVehicleEF	MDV	0.17	0.12

tblVehicleEF	MDV	1.8260e-003	1.6290e-003
tblVehicleEF	MDV	2.5170e-003	2.0560e-003
tblVehicleEF	MDV	1.6830e-003	1.5030e-003
tblVehicleEF	MDV	2.3150e-003	1.8910e-003
tblVehicleEF	MDV	0.10	0.12
tblVehicleEF	MDV	0.20	0.17
tblVehicleEF	MDV	0.08	0.10
tblVehicleEF	MDV	0.03	0.02
tblVehicleEF	MDV	0.11	0.52
tblVehicleEF	MDV	0.25	0.45
tblVehicleEF	MDV	4.8500e-003	4.0740e-003
tblVehicleEF	MDV	1.1370e-003	8.6100e-004
tblVehicleEF	MDV	0.10	0.12
tblVehicleEF	MDV	0.20	0.17
tblVehicleEF	MDV	0.08	0.10
tblVehicleEF	MDV	0.05	0.03
tblVehicleEF	MDV	0.11	0.52
tblVehicleEF	MDV	0.28	0.50
tblVehicleEF	MDV	0.01	6.3580e-003
tblVehicleEF	MDV	0.02	0.08
tblVehicleEF	MDV	1.64	1.38
tblVehicleEF	MDV	2.69	2.75
tblVehicleEF	MDV	526.85	437.99
tblVehicleEF	MDV	107.92	85.88
tblVehicleEF	MDV	0.16	0.11
tblVehicleEF	MDV	1.8260e-003	1.6290e-003
tblVehicleEF	MDV	2.5170e-003	2.0560e-003

tblVehicleEF	MDV	1.6830e-003	1.5030e-003
tblVehicleEF	MDV	2.3150e-003	1.8910e-003
tblVehicleEF	MDV	0.20	0.24
tblVehicleEF	MDV	0.23	0.20
tblVehicleEF	MDV	0.17	0.21
tblVehicleEF	MDV	0.04	0.03
tblVehicleEF	MDV	0.11	0.52
tblVehicleEF	MDV	0.21	0.38
tblVehicleEF	MDV	5.2830e-003	4.3310e-003
tblVehicleEF	MDV	1.1260e-003	8.5000e-004
tblVehicleEF	MDV	0.20	0.24
tblVehicleEF	MDV	0.23	0.20
tblVehicleEF	MDV	0.17	0.21
tblVehicleEF	MDV	0.05	0.04
tblVehicleEF	MDV	0.11	0.52
tblVehicleEF	MDV	0.23	0.42
tblVehicleEF	MDV	0.01	5.4100e-003
tblVehicleEF	MDV	0.02	0.09
tblVehicleEF	MDV	1.28	1.08
tblVehicleEF	MDV	3.20	3.28
tblVehicleEF	MDV	473.93	405.86
tblVehicleEF	MDV	107.92	86.95
tblVehicleEF	MDV	0.16	0.11
tblVehicleEF	MDV	1.8260e-003	1.6290e-003
tblVehicleEF	MDV	2.5170e-003	2.0560e-003
tblVehicleEF	MDV	1.6830e-003	1.5030e-003
tblVehicleEF	MDV	2.3150e-003	1.8910e-003

tblVehicleEF	MDV	0.10	0.11
tblVehicleEF	MDV	0.22	0.19
tblVehicleEF	MDV	0.08	0.10
tblVehicleEF	MDV	0.03	0.02
tblVehicleEF	MDV	0.13	0.60
tblVehicleEF	MDV	0.25	0.45
tblVehicleEF	MDV	4.7490e-003	4.0130e-003
tblVehicleEF	MDV	1.1360e-003	8.6000e-004
tblVehicleEF	MDV	0.10	0.11
tblVehicleEF	MDV	0.22	0.19
tblVehicleEF	MDV	0.08	0.10
tblVehicleEF	MDV	0.04	0.03
tblVehicleEF	MDV	0.13	0.60
tblVehicleEF	MDV	0.27	0.49
tblVehicleEF	MH	0.04	3.7970e-003
tblVehicleEF	MH	0.03	0.00
tblVehicleEF	MH	3.07	0.36
tblVehicleEF	MH	6.43	0.00
tblVehicleEF	MH	1,045.05	951.23
tblVehicleEF	MH	59.49	0.00
tblVehicleEF	MH	1.54	4.54
tblVehicleEF	MH	0.01	0.02
tblVehicleEF	MH	0.04	0.14
tblVehicleEF	MH	1.1740e-003	0.00
tblVehicleEF	MH	3.2230e-003	4.0000e-003
tblVehicleEF	MH	0.04	0.14
tblVehicleEF	MH	1.0790e-003	0.00

tblVehicleEF	MH	1.47	0.00
tblVehicleEF	MH	0.09	0.00
tblVehicleEF	MH	0.51	0.00
tblVehicleEF	MH	0.10	0.08
tblVehicleEF	MH	0.03	0.00
tblVehicleEF	MH	0.37	0.00
tblVehicleEF	MH	0.01	8.9930e-003
tblVehicleEF	MH	7.0700e-004	0.00
tblVehicleEF	MH	1.47	0.00
tblVehicleEF	MH	0.09	0.00
tblVehicleEF	MH	0.51	0.00
tblVehicleEF	MH	0.14	0.09
tblVehicleEF	MH	0.03	0.00
tblVehicleEF	MH	0.40	0.00
tblVehicleEF	MH	0.04	3.7970e-003
tblVehicleEF	MH	0.03	0.00
tblVehicleEF	MH	3.19	0.36
tblVehicleEF	MH	5.84	0.00
tblVehicleEF	MH	1,045.05	951.23
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tblVehicleEF	MH	1.41	4.26
tblVehicleEF	MH	0.01	0.02
tblVehicleEF	MH	0.04	0.14
tblVehicleEF	MH	1.1740e-003	0.00
tblVehicleEF	MH	3.2230e-003	4.0000e-003
tblVehicleEF	MH	0.04	0.14
tblVehicleEF	MH	1.0790e-003	0.00

tblVehicleEF	MH	2.91	0.00
tblVehicleEF	MH	0.11	0.00
tblVehicleEF	MH	1.21	0.00
tblVehicleEF	MH	0.11	0.08
tblVehicleEF	MH	0.03	0.00
tblVehicleEF	MH	0.34	0.00
tblVehicleEF	MH	0.01	8.9930e-003
tblVehicleEF	MH	6.9700e-004	0.00
tblVehicleEF	MH	2.91	0.00
tblVehicleEF	MH	0.11	0.00
tblVehicleEF	MH	1.21	0.00
tblVehicleEF	MH	0.15	0.09
tblVehicleEF	MH	0.03	0.00
tblVehicleEF	MH	0.38	0.00
tblVehicleEF	MH	0.04	3.7970e-003
tblVehicleEF	MH	0.03	0.00
tblVehicleEF	MH	3.08	0.36
tblVehicleEF	MH	6.36	0.00
tblVehicleEF	MH	1,045.05	951.23
tblVehicleEF	MH	59.49	0.00
tblVehicleEF	MH	1.51	4.46
tblVehicleEF	MH	0.01	0.02
tblVehicleEF	MH	0.04	0.14
tblVehicleEF	MH	1.1740e-003	0.00
tblVehicleEF	MH	3.2230e-003	4.0000e-003
tblVehicleEF	MH	0.04	0.14
tblVehicleEF	MH	1.0790e-003	0.00

tblVehicleEF	MH	1.75	0.00
tblVehicleEF	MH	0.11	0.00
tblVehicleEF	MH	0.53	0.00
tblVehicleEF	MH	0.10	0.08
tblVehicleEF	MH	0.03	0.00
tblVehicleEF	MH	0.37	0.00
tblVehicleEF	MH	0.01	8.9930e-003
tblVehicleEF	MH	7.0600e-004	0.00
tblVehicleEF	MH	1.75	0.00
tblVehicleEF	MH	0.11	0.00
tblVehicleEF	MH	0.53	0.00
tblVehicleEF	MH	0.15	0.09
tblVehicleEF	MH	0.03	0.00
tblVehicleEF	MH	0.40	0.00
tblVehicleEF	MHD	0.02	3.1740e-003
tblVehicleEF	MHD	3.5160e-003	3.4880e-003
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tblVehicleEF	MHD	0.27	0.35
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tblVehicleEF	MHD	1,101.52	999.60
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tblVehicleEF	MHD	0.99	1.54
tblVehicleEF	MHD	3.8600e-004	1.1810e-003
tblVehicleEF	MHD	5.0030e-003	0.03

tblVehicleEF	MHD	7.6400e-004	1.0000e-004
tblVehicleEF	MHD	3.6900e-004	1.1300e-003
tblVehicleEF	MHD	4.7830e-003	0.03
tblVehicleEF	MHD	7.0300e-004	9.2000e-005
tblVehicleEF	MHD	1.2800e-003	5.9300e-004
tblVehicleEF	MHD	0.04	0.02
tblVehicleEF	MHD	0.02	0.02
tblVehicleEF	MHD	6.5100e-004	3.0000e-004
tblVehicleEF	MHD	0.04	0.05
tblVehicleEF	MHD	0.02	0.11
tblVehicleEF	MHD	0.32	0.04
tblVehicleEF	MHD	1.5080e-003	6.5500e-004
tblVehicleEF	MHD	0.01	9.5250e-003
tblVehicleEF	MHD	6.1700e-004	8.2000e-005
tblVehicleEF	MHD	1.2800e-003	5.9300e-004
tblVehicleEF	MHD	0.04	0.02
tblVehicleEF	MHD	0.03	0.02
tblVehicleEF	MHD	6.5100e-004	3.0000e-004
tblVehicleEF	MHD	0.04	0.06
tblVehicleEF	MHD	0.02	0.11
tblVehicleEF	MHD	0.35	0.05
tblVehicleEF	MHD	0.02	3.0170e-003
tblVehicleEF	MHD	3.5800e-003	3.5290e-003
tblVehicleEF	MHD	0.05	8.1180e-003
tblVehicleEF	MHD	0.24	0.28
tblVehicleEF	MHD	0.28	0.36
tblVehicleEF	MHD	4.97	0.91

tblVehicleEF	MHD	166.20	69.79
tblVehicleEF	MHD	1,101.52	999.60
tblVehicleEF	MHD	52.43	8.13
tblVehicleEF	MHD	0.62	0.51
tblVehicleEF	MHD	0.92	1.44
tblVehicleEF	MHD	3.2500e-004	9.9900e-004
tblVehicleEF	MHD	5.0030e-003	0.03
tblVehicleEF	MHD	7.6400e-004	1.0000e-004
tblVehicleEF	MHD	3.1100e-004	9.5500e-004
tblVehicleEF	MHD	4.7830e-003	0.03
tblVehicleEF	MHD	7.0300e-004	9.2000e-005
tblVehicleEF	MHD	2.5300e-003	1.1740e-003
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tblVehicleEF	MHD	0.02	0.02
tblVehicleEF	MHD	1.5010e-003	6.9400e-004
tblVehicleEF	MHD	0.04	0.05
tblVehicleEF	MHD	0.02	0.11
tblVehicleEF	MHD	0.30	0.04
tblVehicleEF	MHD	1.5950e-003	6.6200e-004
tblVehicleEF	MHD	0.01	9.5250e-003
tblVehicleEF	MHD	6.1100e-004	8.1000e-005
tblVehicleEF	MHD	2.5300e-003	1.1740e-003
tblVehicleEF	MHD	0.05	0.02
tblVehicleEF	MHD	0.03	0.02
tblVehicleEF	MHD	1.5010e-003	6.9400e-004
tblVehicleEF	MHD	0.04	0.06
tblVehicleEF	MHD	0.02	0.11

tblVehicleEF	MHD	0.33	0.05
tblVehicleEF	MHD	0.02	3.4070e-003
tblVehicleEF	MHD	3.5220e-003	3.4910e-003
tblVehicleEF	MHD	0.05	8.4150e-003
tblVehicleEF	MHD	0.45	0.41
tblVehicleEF	MHD	0.27	0.35
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tblVehicleEF	MHD	144.06	68.08
tblVehicleEF	MHD	1,101.52	999.60
tblVehicleEF	MHD	52.43	8.22
tblVehicleEF	MHD	0.57	0.51
tblVehicleEF	MHD	0.97	1.51
tblVehicleEF	MHD	4.7000e-004	1.4340e-003
tblVehicleEF	MHD	5.0030e-003	0.03
tblVehicleEF	MHD	7.6400e-004	1.0000e-004
tblVehicleEF	MHD	4.4900e-004	1.3720e-003
tblVehicleEF	MHD	4.7830e-003	0.03
tblVehicleEF	MHD	7.0300e-004	9.2000e-005
tblVehicleEF	MHD	1.3890e-003	6.4600e-004
tblVehicleEF	MHD	0.05	0.02
tblVehicleEF	MHD	0.03	0.02
tblVehicleEF	MHD	6.4000e-004	2.9500e-004
tblVehicleEF	MHD	0.04	0.05
tblVehicleEF	MHD	0.02	0.12
tblVehicleEF	MHD	0.32	0.04
tblVehicleEF	MHD	1.3860e-003	6.4600e-004
tblVehicleEF	MHD	0.01	9.5250e-003

tblVehicleEF	MHD	6.1600e-004	8.1000e-005
tblVehicleEF	MHD	1.3890e-003	6.4600e-004
tblVehicleEF	MHD	0.05	0.02
tblVehicleEF	MHD	0.04	0.02
tblVehicleEF	MHD	6.4000e-004	2.9500e-004
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tblVehicleEF	MHD	0.02	0.12
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tblVehicleEF	OBUS	9.9110e-003	8.5440e-003
tblVehicleEF	OBUS	0.03	0.03
tblVehicleEF	OBUS	0.26	0.48
tblVehicleEF	OBUS	0.63	0.98
tblVehicleEF	OBUS	6.27	2.73
tblVehicleEF	OBUS	70.35	66.56
tblVehicleEF	OBUS	1,121.50	1,475.42
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tblVehicleEF	OBUS	6.4000e-005	5.0000e-004
tblVehicleEF	OBUS	4.6440e-003	0.01
tblVehicleEF	OBUS	9.2900e-004	2.3000e-004
tblVehicleEF	OBUS	6.1000e-005	4.7800e-004
tblVehicleEF	OBUS	4.4220e-003	0.01
tblVehicleEF	OBUS	8.5400e-004	2.1200e-004
tblVehicleEF	OBUS	2.1800e-003	2.7870e-003
tblVehicleEF	OBUS	0.02	0.03

tblVehicleEF	OBUS	0.04	0.05
tblVehicleEF	OBUS	9.3100e-004	1.1430e-003
tblVehicleEF	OBUS	0.04	0.06
tblVehicleEF	OBUS	0.05	0.31
tblVehicleEF	OBUS	0.38	0.13
tblVehicleEF	OBUS	6.8400e-004	6.3600e-004
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	8.1700e-004	2.1700e-004
tblVehicleEF	OBUS	2.1800e-003	2.7870e-003
tblVehicleEF	OBUS	0.02	0.03
tblVehicleEF	OBUS	0.05	0.07
tblVehicleEF	OBUS	9.3100e-004	1.1430e-003
tblVehicleEF	OBUS	0.06	0.07
tblVehicleEF	OBUS	0.05	0.31
tblVehicleEF	OBUS	0.42	0.14
tblVehicleEF	OBUS	0.01	9.2020e-003
tblVehicleEF	OBUS	0.01	8.7760e-003
tblVehicleEF	OBUS	0.03	0.02
tblVehicleEF	OBUS	0.26	0.47
tblVehicleEF	OBUS	0.65	1.01
tblVehicleEF	OBUS	5.74	2.51
tblVehicleEF	OBUS	73.50	66.43
tblVehicleEF	OBUS	1,121.50	1,475.46
tblVehicleEF	OBUS	70.70	21.50
tblVehicleEF	OBUS	0.29	0.28
tblVehicleEF	OBUS	0.90	1.04
tblVehicleEF	OBUS	5.4000e-005	4.2500e-004

tblVehicleEF	OBUS	4.6440e-003	0.01
tblVehicleEF	OBUS	9.2900e-004	2.3000e-004
tblVehicleEF	OBUS	5.1000e-005	4.0700e-004
tblVehicleEF	OBUS	4.4220e-003	0.01
tblVehicleEF	OBUS	8.5400e-004	2.1200e-004
tblVehicleEF	OBUS	4.2350e-003	5.4310e-003
tblVehicleEF	OBUS	0.02	0.03
tblVehicleEF	OBUS	0.03	0.05
tblVehicleEF	OBUS	2.1330e-003	2.6360e-003
tblVehicleEF	OBUS	0.05	0.06
tblVehicleEF	OBUS	0.05	0.31
tblVehicleEF	OBUS	0.36	0.12
tblVehicleEF	OBUS	7.1400e-004	6.3500e-004
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	8.0800e-004	2.1300e-004
tblVehicleEF	OBUS	4.2350e-003	5.4310e-003
tblVehicleEF	OBUS	0.02	0.03
tblVehicleEF	OBUS	0.05	0.07
tblVehicleEF	OBUS	2.1330e-003	2.6360e-003
tblVehicleEF	OBUS	0.06	0.08
tblVehicleEF	OBUS	0.05	0.31
tblVehicleEF	OBUS	0.40	0.14
tblVehicleEF	OBUS	0.01	9.1130e-003
tblVehicleEF	OBUS	9.9380e-003	8.5700e-003
tblVehicleEF	OBUS	0.03	0.03
tblVehicleEF	OBUS	0.28	0.49
tblVehicleEF	OBUS	0.63	0.99

tblVehicleEF	OBUS	6.22	2.71
tblVehicleEF	OBUS	66.00	66.75
tblVehicleEF	OBUS	1,121.50	1,475.42
tblVehicleEF	OBUS	70.70	21.85
tblVehicleEF	OBUS	0.27	0.30
tblVehicleEF	OBUS	0.96	1.11
tblVehicleEF	OBUS	7.7000e-005	6.0400e-004
tblVehicleEF	OBUS	4.6440e-003	0.01
tblVehicleEF	OBUS	9.2900e-004	2.3000e-004
tblVehicleEF	OBUS	7.4000e-005	5.7800e-004
tblVehicleEF	OBUS	4.4220e-003	0.01
tblVehicleEF	OBUS	8.5400e-004	2.1200e-004
tblVehicleEF	OBUS	2.3200e-003	3.0070e-003
tblVehicleEF	OBUS	0.02	0.03
tblVehicleEF	OBUS	0.04	0.05
tblVehicleEF	OBUS	9.4100e-004	1.1540e-003
tblVehicleEF	OBUS	0.04	0.06
tblVehicleEF	OBUS	0.05	0.33
tblVehicleEF	OBUS	0.38	0.13
tblVehicleEF	OBUS	6.4200e-004	6.3800e-004
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	8.1600e-004	2.1600e-004
tblVehicleEF	OBUS	2.3200e-003	3.0070e-003
tblVehicleEF	OBUS	0.02	0.03
tblVehicleEF	OBUS	0.05	0.06
tblVehicleEF	OBUS	9.4100e-004	1.1540e-003
tblVehicleEF	OBUS	0.06	0.08

tblVehicleEF	OBUS	0.05	0.33
tblVehicleEF	OBUS	0.42	0.14
tblVehicleEF	SBUS	0.84	0.04
tblVehicleEF	SBUS	0.01	6.8550e-003
tblVehicleEF	SBUS	0.07	4.0770e-003
tblVehicleEF	SBUS	5.71	1.90
tblVehicleEF	SBUS	0.65	0.58
tblVehicleEF	SBUS	5.33	0.55
tblVehicleEF	SBUS	1,258.13	336.22
tblVehicleEF	SBUS	1,136.31	1,128.72
tblVehicleEF	SBUS	37.11	3.21
tblVehicleEF	SBUS	11.70	3.35
tblVehicleEF	SBUS	4.77	5.07
tblVehicleEF	SBUS	0.01	4.0350e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.03	0.03
tblVehicleEF	SBUS	5.1700e-004	3.0000e-005
tblVehicleEF	SBUS	0.01	3.8600e-003
tblVehicleEF	SBUS	2.7560e-003	2.7660e-003
tblVehicleEF	SBUS	0.03	0.03
tblVehicleEF	SBUS	4.7500e-004	2.8000e-005
tblVehicleEF	SBUS	2.9260e-003	7.3800e-004
tblVehicleEF	SBUS	0.02	5.5390e-003
tblVehicleEF	SBUS	0.68	0.20
tblVehicleEF	SBUS	1.3050e-003	3.4800e-004
tblVehicleEF	SBUS	0.11	0.10
tblVehicleEF	SBUS	9.3510e-003	0.04

tblVehicleEF	SBUS	0.27	0.02
tblVehicleEF	SBUS	0.01	3.1960e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	4.6300e-004	3.2000e-005
tblVehicleEF	SBUS	2.9260e-003	7.3800e-004
tblVehicleEF	SBUS	0.02	5.5390e-003
tblVehicleEF	SBUS	0.97	0.28
tblVehicleEF	SBUS	1.3050e-003	3.4800e-004
tblVehicleEF	SBUS	0.13	0.11
tblVehicleEF	SBUS	9.3510e-003	0.04
tblVehicleEF	SBUS	0.30	0.03
tblVehicleEF	SBUS	0.84	0.04
tblVehicleEF	SBUS	0.01	6.9390e-003
tblVehicleEF	SBUS	0.06	3.3780e-003
tblVehicleEF	SBUS	5.56	1.86
tblVehicleEF	SBUS	0.66	0.59
tblVehicleEF	SBUS	3.65	0.39
tblVehicleEF	SBUS	1,322.00	344.13
tblVehicleEF	SBUS	1,136.31	1,128.74
tblVehicleEF	SBUS	37.11	2.94
tblVehicleEF	SBUS	12.08	3.42
tblVehicleEF	SBUS	4.47	4.75
tblVehicleEF	SBUS	0.01	3.4090e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.03	0.03
tblVehicleEF	SBUS	5.1700e-004	3.0000e-005
tblVehicleEF	SBUS	9.6490e-003	3.2620e-003

tblVehicleEF	SBUS	2.7560e-003	2.7660e-003
tblVehicleEF	SBUS	0.03	0.03
tblVehicleEF	SBUS	4.7500e-004	2.8000e-005
tblVehicleEF	SBUS	5.6170e-003	1.3280e-003
tblVehicleEF	SBUS	0.02	5.8520e-003
tblVehicleEF	SBUS	0.67	0.20
tblVehicleEF	SBUS	2.8800e-003	6.7400e-004
tblVehicleEF	SBUS	0.11	0.10
tblVehicleEF	SBUS	8.5310e-003	0.03
tblVehicleEF	SBUS	0.22	0.02
tblVehicleEF	SBUS	0.01	3.2700e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	4.3500e-004	2.9000e-005
tblVehicleEF	SBUS	5.6170e-003	1.3280e-003
tblVehicleEF	SBUS	0.02	5.8520e-003
tblVehicleEF	SBUS	0.97	0.28
tblVehicleEF	SBUS	2.8800e-003	6.7400e-004
tblVehicleEF	SBUS	0.13	0.12
tblVehicleEF	SBUS	8.5310e-003	0.03
tblVehicleEF	SBUS	0.24	0.02
tblVehicleEF	SBUS	0.84	0.04
tblVehicleEF	SBUS	0.01	6.8510e-003
tblVehicleEF	SBUS	0.07	4.1760e-003
tblVehicleEF	SBUS	5.91	1.95
tblVehicleEF	SBUS	0.65	0.58
tblVehicleEF	SBUS	5.37	0.57
tblVehicleEF	SBUS	1,169.92	325.30

tblVehicleEF	SBUS	1,136.31	1,128.72
tblVehicleEF	SBUS	37.11	3.24
tblVehicleEF	SBUS	11.19	3.26
tblVehicleEF	SBUS	4.69	4.99
tblVehicleEF	SBUS	0.01	4.8980e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.03	0.03
tblVehicleEF	SBUS	5.1700e-004	3.0000e-005
tblVehicleEF	SBUS	0.01	4.6860e-003
tblVehicleEF	SBUS	2.7560e-003	2.7660e-003
tblVehicleEF	SBUS	0.03	0.03
tblVehicleEF	SBUS	4.7500e-004	2.8000e-005
tblVehicleEF	SBUS	2.9580e-003	7.2600e-004
tblVehicleEF	SBUS	0.02	5.8800e-003
tblVehicleEF	SBUS	0.68	0.20
tblVehicleEF	SBUS	1.2820e-003	3.5300e-004
tblVehicleEF	SBUS	0.11	0.10
tblVehicleEF	SBUS	0.01	0.05
tblVehicleEF	SBUS	0.28	0.02
tblVehicleEF	SBUS	0.01	3.0930e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	4.6400e-004	3.2000e-005
tblVehicleEF	SBUS	2.9580e-003	7.2600e-004
tblVehicleEF	SBUS	0.02	5.8800e-003
tblVehicleEF	SBUS	0.98	0.28
tblVehicleEF	SBUS	1.2820e-003	3.5300e-004
tblVehicleEF	SBUS	0.13	0.11

tblVehicleEF	SBUS	0.01	0.05
tblVehicleEF	SBUS	0.31	0.03
tblVehicleEF	UBUS	1.83	4.19
tblVehicleEF	UBUS	0.08	0.02
tblVehicleEF	UBUS	9.26	32.67
tblVehicleEF	UBUS	14.34	1.43
tblVehicleEF	UBUS	1,846.39	1,724.94
tblVehicleEF	UBUS	136.37	16.90
tblVehicleEF	UBUS	5.87	0.37
tblVehicleEF	UBUS	0.52	0.08
tblVehicleEF	UBUS	0.01	0.03
tblVehicleEF	UBUS	0.07	2.6830e-003
tblVehicleEF	UBUS	1.4030e-003	1.8900e-004
tblVehicleEF	UBUS	0.22	0.03
tblVehicleEF	UBUS	3.0000e-003	6.3130e-003
tblVehicleEF	UBUS	0.06	2.5510e-003
tblVehicleEF	UBUS	1.2900e-003	1.7400e-004
tblVehicleEF	UBUS	8.0860e-003	1.5320e-003
tblVehicleEF	UBUS	0.11	8.4710e-003
tblVehicleEF	UBUS	3.9450e-003	6.5200e-004
tblVehicleEF	UBUS	0.61	0.06
tblVehicleEF	UBUS	0.02	0.04
tblVehicleEF	UBUS	1.15	0.06
tblVehicleEF	UBUS	0.01	3.8820e-003
tblVehicleEF	UBUS	1.6240e-003	1.6700e-004
tblVehicleEF	UBUS	8.0860e-003	1.5320e-003
tblVehicleEF	UBUS	0.11	8.4710e-003

tblVehicleEF	UBUS	3.9450e-003	6.5200e-004
tblVehicleEF	UBUS	2.50	4.28
tblVehicleEF	UBUS	0.02	0.04
tblVehicleEF	UBUS	1.25	0.07
tblVehicleEF	UBUS	1.83	4.19
tblVehicleEF	UBUS	0.08	0.01
tblVehicleEF	UBUS	9.36	32.67
tblVehicleEF	UBUS	11.74	1.17
tblVehicleEF	UBUS	1,846.39	1,724.94
tblVehicleEF	UBUS	136.37	16.47
tblVehicleEF	UBUS	5.45	0.37
tblVehicleEF	UBUS	0.52	0.08
tblVehicleEF	UBUS	0.01	0.03
tblVehicleEF	UBUS	0.07	2.6830e-003
tblVehicleEF	UBUS	1.4030e-003	1.8900e-004
tblVehicleEF	UBUS	0.22	0.03
tblVehicleEF	UBUS	3.0000e-003	6.3130e-003
tblVehicleEF	UBUS	0.06	2.5510e-003
tblVehicleEF	UBUS	1.2900e-003	1.7400e-004
tblVehicleEF	UBUS	0.02	2.9020e-003
tblVehicleEF	UBUS	0.14	0.01
tblVehicleEF	UBUS	9.3320e-003	1.4770e-003
tblVehicleEF	UBUS	0.62	0.06
tblVehicleEF	UBUS	0.02	0.04
tblVehicleEF	UBUS	1.02	0.06
tblVehicleEF	UBUS	0.01	3.8820e-003
tblVehicleEF	UBUS	1.5790e-003	1.6300e-004

tblVehicleEF	UBUS	0.02	2.9020e-003
tblVehicleEF	UBUS	0.14	0.01
tblVehicleEF	UBUS	9.3320e-003	1.4770e-003
tblVehicleEF	UBUS	2.52	4.28
tblVehicleEF	UBUS	0.02	0.04
tblVehicleEF	UBUS	1.12	0.06
tblVehicleEF	UBUS	1.83	4.19
tblVehicleEF	UBUS	0.08	0.02
tblVehicleEF	UBUS	9.27	32.67
tblVehicleEF	UBUS	13.86	1.39
tblVehicleEF	UBUS	1,846.39	1,724.94
tblVehicleEF	UBUS	136.37	16.85
tblVehicleEF	UBUS	5.76	0.37
tblVehicleEF	UBUS	0.52	0.08
tblVehicleEF	UBUS	0.01	0.03
tblVehicleEF	UBUS	0.07	2.6830e-003
tblVehicleEF	UBUS	1.4030e-003	1.8900e-004
tblVehicleEF	UBUS	0.22	0.03
tblVehicleEF	UBUS	3.0000e-003	6.3130e-003
tblVehicleEF	UBUS	0.06	2.5510e-003
tblVehicleEF	UBUS	1.2900e-003	1.7400e-004
tblVehicleEF	UBUS	9.2250e-003	1.6220e-003
tblVehicleEF	UBUS	0.14	9.7130e-003
tblVehicleEF	UBUS	4.1190e-003	6.4800e-004
tblVehicleEF	UBUS	0.61	0.06
tblVehicleEF	UBUS	0.03	0.04
tblVehicleEF	UBUS	1.13	0.06

tblVehicleEF	UBUS	0.01	3.8820e-003
tblVehicleEF	UBUS	1.6160e-003	1.6700e-004
tblVehicleEF	UBUS	9.2250e-003	1.6220e-003
tblVehicleEF	UBUS	0.14	9.7130e-003
tblVehicleEF	UBUS	4.1190e-003	6.4800e-004
tblVehicleEF	UBUS	2.50	4.28
tblVehicleEF	UBUS	0.03	0.04
tblVehicleEF	UBUS	1.24	0.07
tblVehicleTrips	CC_TL	8.40	0.00
tblVehicleTrips	CC_TL	8.40	0.00
tblVehicleTrips	CC_TL	8.40	0.00
tblVehicleTrips	CC_TL	8.40	0.00
tblVehicleTrips	CNW_TL	6.90	0.00
tblVehicleTrips	CNW_TL	6.90	0.00
tblVehicleTrips	CNW_TL	6.90	0.00
tblVehicleTrips	CNW_TL	6.90	0.00
tblVehicleTrips	CNW_TTP	41.00	0.00
tblVehicleTrips	CW_TL	16.60	0.00
tblVehicleTrips	CW_TL	16.60	0.00
tblVehicleTrips	CW_TL	16.60	0.00
tblVehicleTrips	CW_TL	16.60	0.00
tblVehicleTrips	CW_TTP	59.00	0.00
tblVehicleTrips	DV_TP	5.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PR_TP	92.00	0.00
tblVehicleTrips	ST_TR	1.68	0.00
tblVehicleTrips	SU_TR	1.68	0.00

tblVehicleTrips	WD_TR	1.68	0.00
tblWater	IndoorWaterUseRate	174,457,312.50	0.00

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2021	6.9042	60.8456	44.1723	0.1659	21.9792	2.6473	24.6265	10.3848	2.4355	12.8203	0.0000	16,715.4835	16,715.4835	2.2455	0.0000	16,759.6668
2022	62.1427	66.6947	62.8475	0.2030	9.9539	2.0377	11.9916	2.6748	1.9016	4.5763	0.0000	20,328.0859	20,328.0859	2.5009	0.0000	20,390.6081
Maximum	**62.1427**	**66.6947**	**62.8475**	**0.2030**	**21.9792**	**2.6473**	**24.6265**	**10.3848**	**2.4355**	**12.8203**	**0.0000**	**20,328.0859**	**20,328.0859**	**2.5009**	**0.0000**	**20,390.6081**

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2021	6.9042	60.8456	44.1723	0.1659	8.6946	2.6473	11.3419	4.0826	2.4355	6.5181	0.0000	16,715.4835	16,715.4835	2.2455	0.0000	16,759.6668
2022	62.1427	66.6947	62.8475	0.2030	9.9539	2.0377	11.9916	2.6748	1.9016	4.5763	0.0000	20,328.0859	20,328.0859	2.5009	0.0000	20,390.6081
Maximum	**62.1427**	**66.6947**	**62.8475**	**0.2030**	**9.9539**	**2.6473**	**11.9916**	**4.0826**	**2.4355**	**6.5181**	**0.0000**	**20,328.0859**	**20,328.0859**	**2.5009**	**0.0000**	**20,390.6081**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**41.60**	**0.00**	**36.28**	**48.26**	**0.00**	**36.23**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	17.1751	1.5900e-003	0.1746	1.0000e-005		6.2000e-004	6.2000e-004		6.2000e-004	6.2000e-004		0.3736	0.3736	9.9000e-004		0.3982
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	**17.1751**	**1.5900e-003**	**0.1746**	**1.0000e-005**	**0.0000**	**6.2000e-004**	**6.2000e-004**	**0.0000**	**6.2000e-004**	**6.2000e-004**		**0.3736**	**0.3736**	**9.9000e-004**	**0.0000**	**0.3982**

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	17.1751	1.5900e-003	0.1746	1.0000e-005		6.2000e-004	6.2000e-004		6.2000e-004	6.2000e-004		0.3736	0.3736	9.9000e-004		0.3982
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	**17.1751**	**1.5900e-003**	**0.1746**	**1.0000e-005**	**0.0000**	**6.2000e-004**	**6.2000e-004**	**0.0000**	**6.2000e-004**	**6.2000e-004**		**0.3736**	**0.3736**	**9.9000e-004**	**0.0000**	**0.3982**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	6/1/2021	7/12/2021	5	30	
2	Site Preparation	Site Preparation	7/13/2021	8/9/2021	5	20	
3	Grading	Grading	8/10/2021	10/11/2021	5	45	
4	Building Construction	Building Construction	10/12/2021	6/20/2022	5	180	
5	Architectural Coating	Architectural Coating	3/15/2022	6/20/2022	5	70	
6	Paving	Paving	5/3/2022	6/20/2022	5	35	

Acres of Grading (Site Preparation Phase): 70

Acres of Grading (Grading Phase): 180

Acres of Paving: 16.3

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 1,131,612; Non-Residential Outdoor: 377,204; Striped Parking Area: 42,608 (Architectural Coating – sqft)

OffRoad Equipment

Fontana Foothills Commerce Center (Construction - Unmitigated) - San Bernardino-South Coast County, Winter

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Excavators	3	8.00	158	0.38
Demolition	Rubber Tired Dozers	2	8.00	247	0.40
Site Preparation	Crawler Tractors	4	8.00	212	0.43
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Grading	Crawler Tractors	2	8.00	212	0.43
Grading	Excavators	2	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
Grading	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Building Construction	Cranes	1	8.00	231	0.29
Building Construction	Crawler Tractors	3	8.00	212	0.43
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Architectural Coating	Air Compressors	1	8.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	6	15.00	0.00	73.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	615.00	240.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	123.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

3.2 Demolition - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.5295	0.0000	0.5295	0.0802	0.0000	0.0802			0.0000			0.0000
Off-Road	3.1651	31.4407	21.5650	0.0388		1.5513	1.5513		1.4411	1.4411		3,747.9449	3,747.9449	1.0549		3,774.3174
Total	**3.1651**	**31.4407**	**21.5650**	**0.0388**	**0.5295**	**1.5513**	**2.0808**	**0.0802**	**1.4411**	**1.5213**		**3,747.9449**	**3,747.9449**	**1.0549**		**3,774.3174**

3.2 Demolition - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0151	0.5571	0.0982	1.8400e-003	0.0426	1.5900e-003	0.0442	0.0117	1.5200e-003	0.0132		195.5338	195.5338	0.0117		195.8261
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0764	0.0496	0.5093	1.4800e-003	0.1677	1.0700e-003	0.1687	0.0445	9.9000e-004	0.0455		147.2247	147.2247	4.1000e-003		147.3271
Total	**0.0915**	**0.6067**	**0.6075**	**3.3200e-003**	**0.2102**	**2.6600e-003**	**0.2129**	**0.0561**	**2.5100e-003**	**0.0587**		**342.7585**	**342.7585**	**0.0158**		**343.1532**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.2065	0.0000	0.2065	0.0313	0.0000	0.0313			0.0000			0.0000
Off-Road	3.1651	31.4407	21.5650	0.0388		1.5513	1.5513		1.4411	1.4411	0.0000	3,747.9449	3,747.9449	1.0549		3,774.3174
Total	**3.1651**	**31.4407**	**21.5650**	**0.0388**	**0.2065**	**1.5513**	**1.7578**	**0.0313**	**1.4411**	**1.4724**	**0.0000**	**3,747.9449**	**3,747.9449**	**1.0549**		**3,774.3174**

3.2 Demolition - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0151	0.5571	0.0982	1.8400e-003	0.0426	1.5900e-003	0.0442	0.0117	1.5200e-003	0.0132		195.5338	195.5338	0.0117		195.8261
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0764	0.0496	0.5093	1.4800e-003	0.1677	1.0700e-003	0.1687	0.0445	9.9000e-004	0.0455		147.2247	147.2247	4.1000e-003		147.3271
Total	**0.0915**	**0.6067**	**0.6075**	**3.3200e-003**	**0.2102**	**2.6600e-003**	**0.2129**	**0.0561**	**2.5100e-003**	**0.0587**		**342.7585**	**342.7585**	**0.0158**		**343.1532**

3.3 Site Preparation - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					21.7780	0.0000	21.7780	10.3315	0.0000	10.3315			0.0000			0.0000
Off-Road	5.3428	60.7861	21.8537	0.0570		2.6460	2.6460		2.4343	2.4343		5,523.5047	5,523.5047	1.7864		5,568.1651
Total	**5.3428**	**60.7861**	**21.8537**	**0.0570**	**21.7780**	**2.6460**	**24.4240**	**10.3315**	**2.4343**	**12.7658**		**5,523.5047**	**5,523.5047**	**1.7864**		**5,568.1651**

3.3 Site Preparation - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0917	0.0595	0.6112	1.7700e-003	0.2012	1.2900e-003	0.2025	0.0534	1.1900e-003	0.0545		176.6696	176.6696	4.9200e-003		176.7925
Total	**0.0917**	**0.0595**	**0.6112**	**1.7700e-003**	**0.2012**	**1.2900e-003**	**0.2025**	**0.0534**	**1.1900e-003**	**0.0545**		**176.6696**	**176.6696**	**4.9200e-003**		**176.7925**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					8.4934	0.0000	8.4934	4.0293	0.0000	4.0293			0.0000			0.0000
Off-Road	5.3428	60.7861	21.8537	0.0570		2.6460	2.6460		2.4343	2.4343	0.0000	5,523.5047	5,523.5047	1.7864		5,568.1651
Total	**5.3428**	**60.7861**	**21.8537**	**0.0570**	**8.4934**	**2.6460**	**11.1394**	**4.0293**	**2.4343**	**6.4636**	**0.0000**	**5,523.5047**	**5,523.5047**	**1.7864**		**5,568.1651**

3.3 Site Preparation - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0917	0.0595	0.6112	1.7700e-003	0.2012	1.2900e-003	0.2025	0.0534	1.1900e-003	0.0545		176.6696	176.6696	4.9200e-003		176.7925
Total	**0.0917**	**0.0595**	**0.6112**	**1.7700e-003**	**0.2012**	**1.2900e-003**	**0.2025**	**0.0534**	**1.1900e-003**	**0.0545**		**176.6696**	**176.6696**	**4.9200e-003**		**176.7925**

3.4 Grading - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					10.2641	0.0000	10.2641	3.7683	0.0000	3.7683			0.0000			0.0000
Off-Road	4.9185	56.5443	31.2281	0.0715		2.2861	2.2861		2.1032	2.1032		6,925.9674	6,925.9674	2.2400		6,981.9673
Total	**4.9185**	**56.5443**	**31.2281**	**0.0715**	**10.2641**	**2.2861**	**12.5502**	**3.7683**	**2.1032**	**5.8715**		**6,925.9674**	**6,925.9674**	**2.2400**		**6,981.9673**

3.4 Grading - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1018	0.0661	0.6791	1.9700e-003	0.2236	1.4300e-003	0.2250	0.0593	1.3200e-003	0.0606		196.2995	196.2995	5.4600e-003		196.4361
Total	**0.1018**	**0.0661**	**0.6791**	**1.9700e-003**	**0.2236**	**1.4300e-003**	**0.2250**	**0.0593**	**1.3200e-003**	**0.0606**		**196.2995**	**196.2995**	**5.4600e-003**		**196.4361**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					4.0030	0.0000	4.0030	1.4696	0.0000	1.4696			0.0000			0.0000
Off-Road	4.9185	56.5443	31.2281	0.0715		2.2861	2.2861		2.1032	2.1032	0.0000	6,925.9674	6,925.9674	2.2400		6,981.9673
Total	**4.9185**	**56.5443**	**31.2281**	**0.0715**	**4.0030**	**2.2861**	**6.2891**	**1.4696**	**2.1032**	**3.5728**	**0.0000**	**6,925.9674**	**6,925.9674**	**2.2400**		**6,981.9673**

3.4 Grading - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1018	0.0661	0.6791	1.9700e-003	0.2236	1.4300e-003	0.2250	0.0593	1.3200e-003	0.0606		196.2995	196.2995	5.4600e-003		196.4361
Total	**0.1018**	**0.0661**	**0.6791**	**1.9700e-003**	**0.2236**	**1.4300e-003**	**0.2250**	**0.0593**	**1.3200e-003**	**0.0606**		**196.2995**	**196.2995**	**5.4600e-003**		**196.4361**

3.5 Building Construction - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	3.1137	33.9659	18.1952	0.0430		1.4763	1.4763		1.3775	1.3775		4,114.4297	4,114.4297	1.1209		4,142.4520
Total	**3.1137**	**33.9659**	**18.1952**	**0.0430**		**1.4763**	**1.4763**		**1.3775**	**1.3775**		**4,114.4297**	**4,114.4297**	**1.1209**		**4,142.4520**

3.5 Building Construction - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.6588	22.8986	5.0943	0.0622	1.5371	0.0408	1.5779	0.4426	0.0390	0.4816		6,564.8431	6,564.8431	0.4784		6,576.8036
Worker	3.1317	2.0315	20.8828	0.0606	6.8743	0.0440	6.9182	1.8231	0.0405	1.8636		6,036.2107	6,036.2107	0.1680		6,040.4112
Total	**3.7905**	**24.9301**	**25.9771**	**0.1228**	**8.4114**	**0.0848**	**8.4961**	**2.2657**	**0.0795**	**2.3452**		**12,601.0538**	**12,601.0538**	**0.6464**		**12,617.2148**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	3.1137	33.9659	18.1952	0.0430		1.4763	1.4763		1.3775	1.3775	0.0000	4,114.4297	4,114.4297	1.1209		4,142.4520
Total	**3.1137**	**33.9659**	**18.1952**	**0.0430**		**1.4763**	**1.4763**		**1.3775**	**1.3775**	**0.0000**	**4,114.4297**	**4,114.4297**	**1.1209**		**4,142.4520**

3.5 Building Construction - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.6588	22.8986	5.0943	0.0622	1.5371	0.0408	1.5779	0.4426	0.0390	0.4816		6,564.8431	6,564.8431	0.4784		6,576.8036
Worker	3.1317	2.0315	20.8828	0.0606	6.8743	0.0440	6.9182	1.8231	0.0405	1.8636		6,036.2107	6,036.2107	0.1680		6,040.4112
Total	**3.7905**	**24.9301**	**25.9771**	**0.1228**	**8.4114**	**0.0848**	**8.4961**	**2.2657**	**0.0795**	**2.3452**		**12,601.0538**	**12,601.0538**	**0.6464**		**12,617.2148**

3.5 Building Construction - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.7963	29.7637	17.6698	0.0430		1.2743	1.2743		1.1892	1.1892		4,110.5322	4,110.5322	1.1153		4,138.4135
Total	**2.7963**	**29.7637**	**17.6698**	**0.0430**		**1.2743**	**1.2743**		**1.1892**	**1.1892**		**4,110.5322**	**4,110.5322**	**1.1153**		**4,138.4135**

3.5 Building Construction - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.6145	21.6928	4.7293	0.0617	1.5371	0.0343	1.5714	0.4426	0.0328	0.4754		6,510.1501	6,510.1501	0.4626		6,521.7142
Worker	2.9320	1.8258	19.1523	0.0584	6.8743	0.0427	6.9169	1.8231	0.0393	1.8624		5,818.7978	5,818.7978	0.1508		5,822.5678
Total	**3.5465**	**23.5185**	**23.8816**	**0.1201**	**8.4114**	**0.0770**	**8.4884**	**2.2657**	**0.0721**	**2.3378**		**12,328.9479**	**12,328.9479**	**0.6134**		**12,344.2820**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.7963	29.7637	17.6698	0.0430		1.2743	1.2743		1.1892	1.1892	0.0000	4,110.5322	4,110.5322	1.1153		4,138.4135
Total	**2.7963**	**29.7637**	**17.6698**	**0.0430**		**1.2743**	**1.2743**		**1.1892**	**1.1892**	**0.0000**	**4,110.5322**	**4,110.5322**	**1.1153**		**4,138.4135**

3.5 Building Construction - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.6145	21.6928	4.7293	0.0617	1.5371	0.0343	1.5714	0.4426	0.0328	0.4754		6,510.1501	6,510.1501	0.4626		6,521.7142
Worker	2.9320	1.8258	19.1523	0.0584	6.8743	0.0427	6.9169	1.8231	0.0393	1.8624		5,818.7978	5,818.7978	0.1508		5,822.5678
Total	**3.5465**	**23.5185**	**23.8816**	**0.1201**	**8.4114**	**0.0770**	**8.4884**	**2.2657**	**0.0721**	**2.3378**		**12,328.9479**	**12,328.9479**	**0.6134**		**12,344.2820**

3.6 Architectural Coating - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	52.7739					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2727	1.8780	2.4181	3.9600e-003		0.1090	0.1090		0.1090	0.1090		375.2641	375.2641	0.0244		375.8749
Total	**53.0466**	**1.8780**	**2.4181**	**3.9600e-003**		**0.1090**	**0.1090**		**0.1090**	**0.1090**		**375.2641**	**375.2641**	**0.0244**		**375.8749**

3.6 Architectural Coating - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.5864	0.3652	3.8305	0.0117	1.3749	8.5400e-003	1.3834	0.3646	7.8600e-003	0.3725		1,163.7596	1,163.7596	0.0302		1,164.5136
Total	**0.5864**	**0.3652**	**3.8305**	**0.0117**	**1.3749**	**8.5400e-003**	**1.3834**	**0.3646**	**7.8600e-003**	**0.3725**		**1,163.7596**	**1,163.7596**	**0.0302**		**1,164.5136**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	52.7739					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2727	1.8780	2.4181	3.9600e-003		0.1090	0.1090		0.1090	0.1090	0.0000	375.2641	375.2641	0.0244		375.8749
Total	**53.0466**	**1.8780**	**2.4181**	**3.9600e-003**		**0.1090**	**0.1090**		**0.1090**	**0.1090**	**0.0000**	**375.2641**	**375.2641**	**0.0244**		**375.8749**

3.6 Architectural Coating - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.5864	0.3652	3.8305	0.0117	1.3749	8.5400e-003	1.3834	0.3646	7.8600e-003	0.3725		1,163.7596	1,163.7596	0.0302		1,164.5136
Total	**0.5864**	**0.3652**	**3.8305**	**0.0117**	**1.3749**	**8.5400e-003**	**1.3834**	**0.3646**	**7.8600e-003**	**0.3725**		**1,163.7596**	**1,163.7596**	**0.0302**		**1,164.5136**

3.7 Paving - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.1028	11.1249	14.5805	0.0228		0.5679	0.5679		0.5225	0.5225		2,207.6603	2,207.6603	0.7140		2,225.5104
Paving	0.9926					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**2.0954**	**11.1249**	**14.5805**	**0.0228**		**0.5679**	**0.5679**		**0.5225**	**0.5225**		**2,207.6603**	**2,207.6603**	**0.7140**		**2,225.5104**

3.7 Paving - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0715	0.0445	0.4671	1.4200e-003	0.1677	1.0400e-003	0.1687	0.0445	9.6000e-004	0.0454		141.9219	141.9219	3.6800e-003		142.0139
Total	**0.0715**	**0.0445**	**0.4671**	**1.4200e-003**	**0.1677**	**1.0400e-003**	**0.1687**	**0.0445**	**9.6000e-004**	**0.0454**		**141.9219**	**141.9219**	**3.6800e-003**		**142.0139**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.1028	11.1249	14.5805	0.0228		0.5679	0.5679		0.5225	0.5225	0.0000	2,207.6603	2,207.6603	0.7140		2,225.5104
Paving	0.9926					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**2.0954**	**11.1249**	**14.5805**	**0.0228**		**0.5679**	**0.5679**		**0.5225**	**0.5225**	**0.0000**	**2,207.6603**	**2,207.6603**	**0.7140**		**2,225.5104**

3.7 Paving - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0715	0.0445	0.4671	1.4200e-003	0.1677	1.0400e-003	0.1687	0.0445	9.6000e-004	0.0454		141.9219	141.9219	3.6800e-003		142.0139
Total	**0.0715**	**0.0445**	**0.4671**	**1.4200e-003**	**0.1677**	**1.0400e-003**	**0.1687**	**0.0445**	**9.6000e-004**	**0.0454**		**141.9219**	**141.9219**	**3.6800e-003**		**142.0139**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Other Asphalt Surfaces	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Unrefrigerated Warehouse-No Rail	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0
Other Non-Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0
Unrefrigerated Warehouse-No	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Other Asphalt Surfaces	0.553113	0.036408	0.180286	0.116335	0.016165	0.005101	0.018218	0.063797	0.001357	0.001565	0.005903	0.000808	0.000944
Other Non-Asphalt Surfaces	0.553113	0.036408	0.180286	0.116335	0.016165	0.005101	0.018218	0.063797	0.001357	0.001565	0.005903	0.000808	0.000944
Parking Lot	0.553113	0.036408	0.180286	0.116335	0.016165	0.005101	0.018218	0.063797	0.001357	0.001565	0.005903	0.000808	0.000944
Unrefrigerated Warehouse-No Rail	0.553113	0.036408	0.180286	0.116335	0.016165	0.005101	0.018218	0.063797	0.001357	0.001565	0.005903	0.000808	0.000944

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
NaturalGas Unmitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	17.1751	1.5900e-003	0.1746	1.0000e-005		6.2000e-004	6.2000e-004		6.2000e-004	6.2000e-004		0.3736	0.3736	9.9000e-004		0.3982
Unmitigated	17.1751	1.5900e-003	0.1746	1.0000e-005		6.2000e-004	6.2000e-004		6.2000e-004	6.2000e-004		0.3736	0.3736	9.9000e-004		0.3982

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	1.9701					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	15.1888					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0162	1.5900e-003	0.1746	1.0000e-005		6.2000e-004	6.2000e-004		6.2000e-004	6.2000e-004		0.3736	0.3736	9.9000e-004		0.3982
Total	**17.1751**	**1.5900e-003**	**0.1746**	**1.0000e-005**		**6.2000e-004**	**6.2000e-004**		**6.2000e-004**	**6.2000e-004**		**0.3736**	**0.3736**	**9.9000e-004**		**0.3982**

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	1.9701					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	15.1888					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0162	1.5900e-003	0.1746	1.0000e-005		6.2000e-004	6.2000e-004		6.2000e-004	6.2000e-004		0.3736	0.3736	9.9000e-004		0.3982
Total	**17.1751**	**1.5900e-003**	**0.1746**	**1.0000e-005**		**6.2000e-004**	**6.2000e-004**		**6.2000e-004**	**6.2000e-004**		**0.3736**	**0.3736**	**9.9000e-004**		**0.3982**

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

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APPENDIX 3.2:

CALEEMOD CONSTRUCTION (MITIGATED) EMISSIONS MODEL OUTPUTS

Fontana Foothills Commerce Center (Construction - Mitigated)

San Bernardino-South Coast County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Unrefrigerated Warehouse-No Rail	754.41	1000sqft	17.32	754,408.00	0
Other Asphalt Surfaces	415.94	1000sqft	9.55	415,944.00	0
Other Non-Asphalt Surfaces	132.59	1000sqft	3.04	132,592.00	0
Parking Lot	404.00	Space	3.71	161,600.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	32
Climate Zone	10			**Operational Year**	2022
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	702.44	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - Unrefrigerated Warehouse - No Rail = High-Cube Short-Term Warehouse; Parking Lot = 404 Standard Spaces; Other Non-Asphalt Surfaces = Landscape area; Other Asphalt Surfaces = Balance

Construction Phase - Construction Schedule adjusted per information provided by the Project Applicant.

Off-road Equipment - Hours are based on an 8-hour workday.

Off-road Equipment - Crawler Tractors used in lieu of Tractors/Loaders/Backhoes.

Off-road Equipment - Crawler Tractors used in lieu of Tractors/Loaders/Backhoes.

Off-road Equipment -

Off-road Equipment - Crawler Tractors used in lieu of Tractors/Loaders/Backhoes.

Demolition -

Grading - For purposes of analysis, total acres graded per day is based on the equipment specific grading rates (CalEEMod Appendix A) and the equipment list.

Architectural Coating - Rule 1113

Vehicle Trips - Construction Run Only.

Energy Use - Construction Run Only.

Water And Wastewater - Construction Run Only.

Solid Waste - Construction Run Only.

Construction Off-road Equipment Mitigation - All equipment operating at >150 HP during site preparation activities will be equipped with Tier 3 or better engines.

Vehicle Emission Factors - EMFAC2017

Vehicle Emission Factors - EMFAC2017

Vehicle Emission Factors - EMFAC2017

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	100.00	50.00
tblArchitecturalCoating	EF_Nonresidential_Interior	100.00	50.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3

tblConstructionPhase	NumDays	500.00	180.00
tblConstructionPhase	NumDays	35.00	70.00
tblEnergyUse	LightingElect	0.35	0.00
tblEnergyUse	LightingElect	1.17	0.00
tblEnergyUse	NT24E	0.82	0.00
tblEnergyUse	NT24NG	0.03	0.00
tblEnergyUse	T24E	0.37	0.00
tblEnergyUse	T24NG	2.00	0.00
tblGrading	AcresOfGrading	157.50	180.00
tblGrading	AcresOfGrading	40.00	70.00
tblLandUse	LotAcreage	3.64	3.71
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblSolidWaste	SolidWasteGenerationRate	709.15	0.00
tblVehicleEF	HHD	1.21	0.03
tblVehicleEF	HHD	0.04	0.06
tblVehicleEF	HHD	0.10	0.00
tblVehicleEF	HHD	3.29	8.22
tblVehicleEF	HHD	0.57	0.40
tblVehicleEF	HHD	1.82	2.2600e-003
tblVehicleEF	HHD	6,933.41	1,478.27
tblVehicleEF	HHD	1,475.79	1,372.23
tblVehicleEF	HHD	5.54	0.02

tblVehicleEF	HHD	26.50	7.64
tblVehicleEF	HHD	2.50	2.77
tblVehicleEF	HHD	9.7780e-003	3.7640e-003
tblVehicleEF	HHD	0.06	0.06
tblVehicleEF	HHD	0.04	0.04
tblVehicleEF	HHD	0.01	0.03
tblVehicleEF	HHD	5.1000e-005	1.0000e-006
tblVehicleEF	HHD	9.3550e-003	3.6010e-003
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	8.8810e-003	8.9170e-003
tblVehicleEF	HHD	0.01	0.03
tblVehicleEF	HHD	4.7000e-005	1.0000e-006
tblVehicleEF	HHD	8.5000e-005	3.0000e-006
tblVehicleEF	HHD	3.1910e-003	1.0400e-004
tblVehicleEF	HHD	0.84	0.59
tblVehicleEF	HHD	5.2000e-005	2.0000e-006
tblVehicleEF	HHD	0.08	0.05
tblVehicleEF	HHD	2.1700e-004	5.2200e-004
tblVehicleEF	HHD	0.05	1.0000e-006
tblVehicleEF	HHD	0.07	0.01
tblVehicleEF	HHD	0.01	0.01
tblVehicleEF	HHD	8.6000e-005	0.00
tblVehicleEF	HHD	8.5000e-005	3.0000e-006
tblVehicleEF	HHD	3.1910e-003	1.0400e-004
tblVehicleEF	HHD	0.97	0.67
tblVehicleEF	HHD	5.2000e-005	2.0000e-006
tblVehicleEF	HHD	0.13	0.12

tblVehicleEF	HHD	2.1700e-004	5.2200e-004
tblVehicleEF	HHD	0.06	1.0000e-006
tblVehicleEF	HHD	1.14	0.03
tblVehicleEF	HHD	0.04	0.06
tblVehicleEF	HHD	0.09	0.00
tblVehicleEF	HHD	2.39	8.07
tblVehicleEF	HHD	0.57	0.40
tblVehicleEF	HHD	1.70	2.1220e-003
tblVehicleEF	HHD	7,345.18	1,469.16
tblVehicleEF	HHD	1,475.79	1,372.23
tblVehicleEF	HHD	5.54	0.02
tblVehicleEF	HHD	27.35	7.37
tblVehicleEF	HHD	2.36	2.60
tblVehicleEF	HHD	8.2750e-003	3.3440e-003
tblVehicleEF	HHD	0.06	0.06
tblVehicleEF	HHD	0.04	0.04
tblVehicleEF	HHD	0.01	0.03
tblVehicleEF	HHD	5.1000e-005	1.0000e-006
tblVehicleEF	HHD	7.9170e-003	3.2000e-003
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	8.8810e-003	8.9170e-003
tblVehicleEF	HHD	0.01	0.03
tblVehicleEF	HHD	4.7000e-005	1.0000e-006
tblVehicleEF	HHD	1.6800e-004	7.0000e-006
tblVehicleEF	HHD	3.5970e-003	1.2200e-004
tblVehicleEF	HHD	0.79	0.62
tblVehicleEF	HHD	1.1700e-004	5.0000e-006

tblVehicleEF	HHD	0.08	0.05
tblVehicleEF	HHD	2.2100e-004	5.3900e-004
tblVehicleEF	HHD	0.05	1.0000e-006
tblVehicleEF	HHD	0.07	0.01
tblVehicleEF	HHD	0.01	0.01
tblVehicleEF	HHD	8.4000e-005	0.00
tblVehicleEF	HHD	1.6800e-004	7.0000e-006
tblVehicleEF	HHD	3.5970e-003	1.2200e-004
tblVehicleEF	HHD	0.91	0.71
tblVehicleEF	HHD	1.1700e-004	5.0000e-006
tblVehicleEF	HHD	0.13	0.12
tblVehicleEF	HHD	2.2100e-004	5.3900e-004
tblVehicleEF	HHD	0.06	1.0000e-006
tblVehicleEF	HHD	1.31	0.03
tblVehicleEF	HHD	0.04	2.3610e-003
tblVehicleEF	HHD	0.10	0.00
tblVehicleEF	HHD	4.53	8.37
tblVehicleEF	HHD	0.57	0.25
tblVehicleEF	HHD	1.79	2.2320e-003
tblVehicleEF	HHD	6,364.76	1,476.72
tblVehicleEF	HHD	1,475.79	1,332.53
tblVehicleEF	HHD	5.54	0.02
tblVehicleEF	HHD	25.32	7.94
tblVehicleEF	HHD	2.46	2.69
tblVehicleEF	HHD	0.01	4.1670e-003
tblVehicleEF	HHD	0.06	0.06
tblVehicleEF	HHD	0.04	0.04

tblVehicleEF	HHD	0.01	0.03
tblVehicleEF	HHD	5.1000e-005	1.0000e-006
tblVehicleEF	HHD	0.01	3.9860e-003
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	8.8810e-003	8.8160e-003
tblVehicleEF	HHD	0.01	0.03
tblVehicleEF	HHD	4.7000e-005	1.0000e-006
tblVehicleEF	HHD	8.5000e-005	4.0000e-006
tblVehicleEF	HHD	3.4760e-003	1.2300e-004
tblVehicleEF	HHD	0.91	0.54
tblVehicleEF	HHD	5.2000e-005	2.0000e-006
tblVehicleEF	HHD	0.08	0.05
tblVehicleEF	HHD	2.3300e-004	5.4600e-004
tblVehicleEF	HHD	0.05	1.0000e-006
tblVehicleEF	HHD	0.06	0.01
tblVehicleEF	HHD	0.01	0.01
tblVehicleEF	HHD	8.5000e-005	0.00
tblVehicleEF	HHD	8.5000e-005	4.0000e-006
tblVehicleEF	HHD	3.4760e-003	1.2300e-004
tblVehicleEF	HHD	1.05	0.62
tblVehicleEF	HHD	5.2000e-005	2.0000e-006
tblVehicleEF	HHD	0.13	0.06
tblVehicleEF	HHD	2.3300e-004	5.4600e-004
tblVehicleEF	HHD	0.06	1.0000e-006
tblVehicleEF	LDA	4.2030e-003	2.4360e-003
tblVehicleEF	LDA	5.6230e-003	0.05
tblVehicleEF	LDA	0.57	0.65

tblVehicleEF	LDA	1.19	2.16
tblVehicleEF	LDA	251.29	261.47
tblVehicleEF	LDA	57.15	53.86
tblVehicleEF	LDA	0.05	0.04
tblVehicleEF	LDA	1.6780e-003	1.4470e-003
tblVehicleEF	LDA	2.2790e-003	1.8580e-003
tblVehicleEF	LDA	1.5460e-003	1.3330e-003
tblVehicleEF	LDA	2.0960e-003	1.7080e-003
tblVehicleEF	LDA	0.04	0.06
tblVehicleEF	LDA	0.10	0.10
tblVehicleEF	LDA	0.03	0.05
tblVehicleEF	LDA	0.01	9.3320e-003
tblVehicleEF	LDA	0.03	0.21
tblVehicleEF	LDA	0.08	0.23
tblVehicleEF	LDA	2.5170e-003	2.5870e-003
tblVehicleEF	LDA	5.9200e-004	5.3300e-004
tblVehicleEF	LDA	0.04	0.06
tblVehicleEF	LDA	0.10	0.10
tblVehicleEF	LDA	0.03	0.05
tblVehicleEF	LDA	0.02	0.01
tblVehicleEF	LDA	0.03	0.21
tblVehicleEF	LDA	0.08	0.25
tblVehicleEF	LDA	4.7900e-003	2.7940e-003
tblVehicleEF	LDA	4.6890e-003	0.04
tblVehicleEF	LDA	0.71	0.79
tblVehicleEF	LDA	0.99	1.79
tblVehicleEF	LDA	274.94	285.54

tblVehicleEF	LDA	57.15	53.16
tblVehicleEF	LDA	0.05	0.04
tblVehicleEF	LDA	1.6780e-003	1.4470e-003
tblVehicleEF	LDA	2.2790e-003	1.8580e-003
tblVehicleEF	LDA	1.5460e-003	1.3330e-003
tblVehicleEF	LDA	2.0960e-003	1.7080e-003
tblVehicleEF	LDA	0.09	0.12
tblVehicleEF	LDA	0.12	0.12
tblVehicleEF	LDA	0.07	0.10
tblVehicleEF	LDA	0.01	0.01
tblVehicleEF	LDA	0.03	0.21
tblVehicleEF	LDA	0.06	0.19
tblVehicleEF	LDA	2.7550e-003	2.8250e-003
tblVehicleEF	LDA	5.8800e-004	5.2600e-004
tblVehicleEF	LDA	0.09	0.12
tblVehicleEF	LDA	0.12	0.12
tblVehicleEF	LDA	0.07	0.10
tblVehicleEF	LDA	0.02	0.02
tblVehicleEF	LDA	0.03	0.21
tblVehicleEF	LDA	0.07	0.21
tblVehicleEF	LDA	4.0860e-003	2.3760e-003
tblVehicleEF	LDA	5.5870e-003	0.05
tblVehicleEF	LDA	0.54	0.61
tblVehicleEF	LDA	1.18	2.12
tblVehicleEF	LDA	245.70	255.84
tblVehicleEF	LDA	57.15	53.80
tblVehicleEF	LDA	0.05	0.04

tblVehicleEF	LDA	1.6780e-003	1.4470e-003
tblVehicleEF	LDA	2.2790e-003	1.8580e-003
tblVehicleEF	LDA	1.5460e-003	1.3330e-003
tblVehicleEF	LDA	2.0960e-003	1.7080e-003
tblVehicleEF	LDA	0.05	0.06
tblVehicleEF	LDA	0.11	0.11
tblVehicleEF	LDA	0.03	0.05
tblVehicleEF	LDA	0.01	9.0880e-003
tblVehicleEF	LDA	0.04	0.24
tblVehicleEF	LDA	0.08	0.23
tblVehicleEF	LDA	2.4600e-003	2.5310e-003
tblVehicleEF	LDA	5.9100e-004	5.3200e-004
tblVehicleEF	LDA	0.05	0.06
tblVehicleEF	LDA	0.11	0.11
tblVehicleEF	LDA	0.03	0.05
tblVehicleEF	LDA	0.01	0.01
tblVehicleEF	LDA	0.04	0.24
tblVehicleEF	LDA	0.08	0.25
tblVehicleEF	LDT1	0.01	7.0610e-003
tblVehicleEF	LDT1	0.02	0.08
tblVehicleEF	LDT1	1.54	1.44
tblVehicleEF	LDT1	3.61	2.44
tblVehicleEF	LDT1	313.68	310.02
tblVehicleEF	LDT1	70.93	65.50
tblVehicleEF	LDT1	0.16	0.13
tblVehicleEF	LDT1	2.7050e-003	2.1940e-003
tblVehicleEF	LDT1	3.6920e-003	2.8520e-003

tblVehicleEF	LDT1	2.4910e-003	2.0190e-003
tblVehicleEF	LDT1	3.3960e-003	2.6220e-003
tblVehicleEF	LDT1	0.18	0.19
tblVehicleEF	LDT1	0.33	0.26
tblVehicleEF	LDT1	0.13	0.13
tblVehicleEF	LDT1	0.03	0.03
tblVehicleEF	LDT1	0.20	0.88
tblVehicleEF	LDT1	0.26	0.43
tblVehicleEF	LDT1	3.1570e-003	3.0680e-003
tblVehicleEF	LDT1	7.7300e-004	6.4800e-004
tblVehicleEF	LDT1	0.18	0.19
tblVehicleEF	LDT1	0.33	0.26
tblVehicleEF	LDT1	0.13	0.13
tblVehicleEF	LDT1	0.05	0.05
tblVehicleEF	LDT1	0.20	0.88
tblVehicleEF	LDT1	0.28	0.48
tblVehicleEF	LDT1	0.02	8.0100e-003
tblVehicleEF	LDT1	0.02	0.07
tblVehicleEF	LDT1	1.85	1.74
tblVehicleEF	LDT1	2.97	2.02
tblVehicleEF	LDT1	341.75	335.16
tblVehicleEF	LDT1	70.93	64.59
tblVehicleEF	LDT1	0.14	0.12
tblVehicleEF	LDT1	2.7050e-003	2.1940e-003
tblVehicleEF	LDT1	3.6920e-003	2.8520e-003
tblVehicleEF	LDT1	2.4910e-003	2.0190e-003
tblVehicleEF	LDT1	3.3960e-003	2.6220e-003

tblVehicleEF	LDT1	0.37	0.40
tblVehicleEF	LDT1	0.41	0.33
tblVehicleEF	LDT1	0.27	0.29
tblVehicleEF	LDT1	0.04	0.04
tblVehicleEF	LDT1	0.20	0.88
tblVehicleEF	LDT1	0.21	0.36
tblVehicleEF	LDT1	3.4420e-003	3.3170e-003
tblVehicleEF	LDT1	7.6200e-004	6.3900e-004
tblVehicleEF	LDT1	0.37	0.40
tblVehicleEF	LDT1	0.41	0.33
tblVehicleEF	LDT1	0.27	0.29
tblVehicleEF	LDT1	0.06	0.05
tblVehicleEF	LDT1	0.20	0.88
tblVehicleEF	LDT1	0.23	0.40
tblVehicleEF	LDT1	0.01	6.8960e-003
tblVehicleEF	LDT1	0.02	0.08
tblVehicleEF	LDT1	1.47	1.37
tblVehicleEF	LDT1	3.55	2.40
tblVehicleEF	LDT1	307.06	304.06
tblVehicleEF	LDT1	70.93	65.42
tblVehicleEF	LDT1	0.15	0.12
tblVehicleEF	LDT1	2.7050e-003	2.1940e-003
tblVehicleEF	LDT1	3.6920e-003	2.8520e-003
tblVehicleEF	LDT1	2.4910e-003	2.0190e-003
tblVehicleEF	LDT1	3.3960e-003	2.6220e-003
tblVehicleEF	LDT1	0.19	0.20
tblVehicleEF	LDT1	0.39	0.30

tblVehicleEF	LDT1	0.12	0.12
tblVehicleEF	LDT1	0.03	0.03
tblVehicleEF	LDT1	0.23	1.03
tblVehicleEF	LDT1	0.25	0.43
tblVehicleEF	LDT1	3.0890e-003	3.0090e-003
tblVehicleEF	LDT1	7.7200e-004	6.4700e-004
tblVehicleEF	LDT1	0.19	0.20
tblVehicleEF	LDT1	0.39	0.30
tblVehicleEF	LDT1	0.12	0.12
tblVehicleEF	LDT1	0.05	0.04
tblVehicleEF	LDT1	0.23	1.03
tblVehicleEF	LDT1	0.28	0.47
tblVehicleEF	LDT2	6.3270e-003	4.2800e-003
tblVehicleEF	LDT2	8.1990e-003	0.07
tblVehicleEF	LDT2	0.80	0.97
tblVehicleEF	LDT2	1.67	2.78
tblVehicleEF	LDT2	351.15	331.49
tblVehicleEF	LDT2	79.39	70.30
tblVehicleEF	LDT2	0.09	0.09
tblVehicleEF	LDT2	1.7270e-003	1.5180e-003
tblVehicleEF	LDT2	2.4170e-003	1.9480e-003
tblVehicleEF	LDT2	1.5880e-003	1.3970e-003
tblVehicleEF	LDT2	2.2220e-003	1.7910e-003
tblVehicleEF	LDT2	0.06	0.10
tblVehicleEF	LDT2	0.13	0.15
tblVehicleEF	LDT2	0.05	0.08
tblVehicleEF	LDT2	0.02	0.02

tblVehicleEF	LDT2	0.07	0.48
tblVehicleEF	LDT2	0.11	0.35
tblVehicleEF	LDT2	3.5180e-003	3.2800e-003
tblVehicleEF	LDT2	8.2200e-004	6.9600e-004
tblVehicleEF	LDT2	0.06	0.10
tblVehicleEF	LDT2	0.13	0.15
tblVehicleEF	LDT2	0.05	0.08
tblVehicleEF	LDT2	0.02	0.03
tblVehicleEF	LDT2	0.07	0.48
tblVehicleEF	LDT2	0.12	0.38
tblVehicleEF	LDT2	7.1840e-003	4.8870e-003
tblVehicleEF	LDT2	6.8290e-003	0.06
tblVehicleEF	LDT2	0.97	1.18
tblVehicleEF	LDT2	1.38	2.30
tblVehicleEF	LDT2	383.36	355.94
tblVehicleEF	LDT2	79.39	69.35
tblVehicleEF	LDT2	0.08	0.08
tblVehicleEF	LDT2	1.7270e-003	1.5180e-003
tblVehicleEF	LDT2	2.4170e-003	1.9480e-003
tblVehicleEF	LDT2	1.5880e-003	1.3970e-003
tblVehicleEF	LDT2	2.2220e-003	1.7910e-003
tblVehicleEF	LDT2	0.13	0.21
tblVehicleEF	LDT2	0.15	0.18
tblVehicleEF	LDT2	0.11	0.18
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.07	0.48
tblVehicleEF	LDT2	0.09	0.29

tblVehicleEF	LDT2	3.8420e-003	3.5220e-003
tblVehicleEF	LDT2	8.1700e-004	6.8600e-004
tblVehicleEF	LDT2	0.13	0.21
tblVehicleEF	LDT2	0.15	0.18
tblVehicleEF	LDT2	0.11	0.18
tblVehicleEF	LDT2	0.03	0.03
tblVehicleEF	LDT2	0.07	0.48
tblVehicleEF	LDT2	0.10	0.32
tblVehicleEF	LDT2	6.1560e-003	4.1770e-003
tblVehicleEF	LDT2	8.1410e-003	0.07
tblVehicleEF	LDT2	0.75	0.92
tblVehicleEF	LDT2	1.64	2.74
tblVehicleEF	LDT2	343.55	325.69
tblVehicleEF	LDT2	79.39	70.22
tblVehicleEF	LDT2	0.08	0.09
tblVehicleEF	LDT2	1.7270e-003	1.5180e-003
tblVehicleEF	LDT2	2.4170e-003	1.9480e-003
tblVehicleEF	LDT2	1.5880e-003	1.3970e-003
tblVehicleEF	LDT2	2.2220e-003	1.7910e-003
tblVehicleEF	LDT2	0.06	0.10
tblVehicleEF	LDT2	0.14	0.16
tblVehicleEF	LDT2	0.05	0.08
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.08	0.56
tblVehicleEF	LDT2	0.11	0.35
tblVehicleEF	LDT2	3.4410e-003	3.2220e-003
tblVehicleEF	LDT2	8.2200e-004	6.9500e-004

tblVehicleEF	LDT2	0.06	0.10
tblVehicleEF	LDT2	0.14	0.16
tblVehicleEF	LDT2	0.05	0.08
tblVehicleEF	LDT2	0.02	0.03
tblVehicleEF	LDT2	0.08	0.56
tblVehicleEF	LDT2	0.12	0.38
tblVehicleEF	LHD1	5.2170e-003	4.8640e-003
tblVehicleEF	LHD1	0.01	6.5090e-003
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	0.14	0.17
tblVehicleEF	LHD1	1.07	0.88
tblVehicleEF	LHD1	2.60	1.03
tblVehicleEF	LHD1	9.23	9.35
tblVehicleEF	LHD1	609.20	648.62
tblVehicleEF	LHD1	30.40	10.79
tblVehicleEF	LHD1	0.09	0.08
tblVehicleEF	LHD1	2.12	1.54
tblVehicleEF	LHD1	9.6500e-004	9.5300e-004
tblVehicleEF	LHD1	0.01	9.9680e-003
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	9.5800e-004	2.6300e-004
tblVehicleEF	LHD1	9.2400e-004	9.1200e-004
tblVehicleEF	LHD1	2.5390e-003	2.4920e-003
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	8.8100e-004	2.4200e-004
tblVehicleEF	LHD1	3.7070e-003	3.1750e-003
tblVehicleEF	LHD1	0.11	0.09

tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	1.8240e-003	1.5420e-003
tblVehicleEF	LHD1	0.08	0.07
tblVehicleEF	LHD1	0.35	0.60
tblVehicleEF	LHD1	0.27	0.08
tblVehicleEF	LHD1	9.2000e-005	9.0000e-005
tblVehicleEF	LHD1	5.9760e-003	6.3130e-003
tblVehicleEF	LHD1	3.5300e-004	1.0700e-004
tblVehicleEF	LHD1	3.7070e-003	3.1750e-003
tblVehicleEF	LHD1	0.11	0.09
tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	1.8240e-003	1.5420e-003
tblVehicleEF	LHD1	0.10	0.08
tblVehicleEF	LHD1	0.35	0.60
tblVehicleEF	LHD1	0.29	0.09
tblVehicleEF	LHD1	5.2170e-003	4.8790e-003
tblVehicleEF	LHD1	0.01	6.6670e-003
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	0.14	0.17
tblVehicleEF	LHD1	1.09	0.90
tblVehicleEF	LHD1	2.43	0.97
tblVehicleEF	LHD1	9.23	9.35
tblVehicleEF	LHD1	609.20	648.66
tblVehicleEF	LHD1	30.40	10.67
tblVehicleEF	LHD1	0.09	0.08
tblVehicleEF	LHD1	1.98	1.44
tblVehicleEF	LHD1	9.6500e-004	9.5300e-004

tblVehicleEF	LHD1	0.01	9.9680e-003
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	9.5800e-004	2.6300e-004
tblVehicleEF	LHD1	9.2400e-004	9.1200e-004
tblVehicleEF	LHD1	2.5390e-003	2.4920e-003
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	8.8100e-004	2.4200e-004
tblVehicleEF	LHD1	7.3080e-003	6.2980e-003
tblVehicleEF	LHD1	0.13	0.11
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	4.1220e-003	3.5370e-003
tblVehicleEF	LHD1	0.09	0.07
tblVehicleEF	LHD1	0.36	0.60
tblVehicleEF	LHD1	0.25	0.08
tblVehicleEF	LHD1	9.2000e-005	9.0000e-005
tblVehicleEF	LHD1	5.9770e-003	6.3140e-003
tblVehicleEF	LHD1	3.5000e-004	1.0600e-004
tblVehicleEF	LHD1	7.3080e-003	6.2980e-003
tblVehicleEF	LHD1	0.13	0.11
tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	4.1220e-003	3.5370e-003
tblVehicleEF	LHD1	0.11	0.09
tblVehicleEF	LHD1	0.36	0.60
tblVehicleEF	LHD1	0.28	0.08
tblVehicleEF	LHD1	5.2170e-003	4.8670e-003
tblVehicleEF	LHD1	0.01	6.5250e-003
tblVehicleEF	LHD1	0.02	0.02

tblVehicleEF	LHD1	0.14	0.17
tblVehicleEF	LHD1	1.07	0.89
tblVehicleEF	LHD1	2.55	1.02
tblVehicleEF	LHD1	9.23	9.35
tblVehicleEF	LHD1	609.20	648.63
tblVehicleEF	LHD1	30.40	10.76
tblVehicleEF	LHD1	0.09	0.08
tblVehicleEF	LHD1	2.08	1.51
tblVehicleEF	LHD1	9.6500e-004	9.5300e-004
tblVehicleEF	LHD1	0.01	9.9680e-003
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	9.5800e-004	2.6300e-004
tblVehicleEF	LHD1	9.2400e-004	9.1200e-004
tblVehicleEF	LHD1	2.5390e-003	2.4920e-003
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	8.8100e-004	2.4200e-004
tblVehicleEF	LHD1	4.0430e-003	3.5090e-003
tblVehicleEF	LHD1	0.13	0.10
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	1.7940e-003	1.5200e-003
tblVehicleEF	LHD1	0.08	0.07
tblVehicleEF	LHD1	0.38	0.64
tblVehicleEF	LHD1	0.26	0.08
tblVehicleEF	LHD1	9.2000e-005	9.0000e-005
tblVehicleEF	LHD1	5.9760e-003	6.3130e-003
tblVehicleEF	LHD1	3.5200e-004	1.0600e-004
tblVehicleEF	LHD1	4.0430e-003	3.5090e-003

tblVehicleEF	LHD1	0.13	0.10
tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	1.7940e-003	1.5200e-003
tblVehicleEF	LHD1	0.10	0.08
tblVehicleEF	LHD1	0.38	0.64
tblVehicleEF	LHD1	0.29	0.09
tblVehicleEF	LHD2	3.5950e-003	3.3090e-003
tblVehicleEF	LHD2	4.6110e-003	4.1580e-003
tblVehicleEF	LHD2	8.1370e-003	9.5080e-003
tblVehicleEF	LHD2	0.12	0.14
tblVehicleEF	LHD2	0.50	0.56
tblVehicleEF	LHD2	1.20	0.61
tblVehicleEF	LHD2	14.27	14.55
tblVehicleEF	LHD2	608.52	648.96
tblVehicleEF	LHD2	24.46	7.78
tblVehicleEF	LHD2	0.11	0.11
tblVehicleEF	LHD2	1.49	1.65
tblVehicleEF	LHD2	1.2830e-003	1.4030e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	4.0000e-004	1.2600e-004
tblVehicleEF	LHD2	1.2280e-003	1.3430e-003
tblVehicleEF	LHD2	2.6860e-003	2.6930e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	3.6800e-004	1.1600e-004
tblVehicleEF	LHD2	1.3070e-003	1.5580e-003
tblVehicleEF	LHD2	0.04	0.05

tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	7.0300e-004	8.0000e-004
tblVehicleEF	LHD2	0.06	0.06
tblVehicleEF	LHD2	0.09	0.29
tblVehicleEF	LHD2	0.11	0.05
tblVehicleEF	LHD2	5.9200e-003	6.2610e-003
tblVehicleEF	LHD2	2.6700e-004	7.7000e-005
tblVehicleEF	LHD2	1.3070e-003	1.5580e-003
tblVehicleEF	LHD2	0.04	0.05
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	7.0300e-004	8.0000e-004
tblVehicleEF	LHD2	0.07	0.07
tblVehicleEF	LHD2	0.09	0.29
tblVehicleEF	LHD2	0.12	0.05
tblVehicleEF	LHD2	3.5950e-003	3.3190e-003
tblVehicleEF	LHD2	4.6760e-003	4.2030e-003
tblVehicleEF	LHD2	7.7630e-003	9.0810e-003
tblVehicleEF	LHD2	0.12	0.14
tblVehicleEF	LHD2	0.50	0.56
tblVehicleEF	LHD2	1.13	0.57
tblVehicleEF	LHD2	14.27	14.55
tblVehicleEF	LHD2	608.52	648.97
tblVehicleEF	LHD2	24.46	7.71
tblVehicleEF	LHD2	0.11	0.11
tblVehicleEF	LHD2	1.40	1.55
tblVehicleEF	LHD2	1.2830e-003	1.4030e-003
tblVehicleEF	LHD2	0.01	0.01

tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	4.0000e-004	1.2600e-004
tblVehicleEF	LHD2	1.2280e-003	1.3430e-003
tblVehicleEF	LHD2	2.6860e-003	2.6930e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	3.6800e-004	1.1600e-004
tblVehicleEF	LHD2	2.5220e-003	3.0280e-003
tblVehicleEF	LHD2	0.04	0.06
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	1.5220e-003	1.7650e-003
tblVehicleEF	LHD2	0.06	0.06
tblVehicleEF	LHD2	0.09	0.29
tblVehicleEF	LHD2	0.10	0.04
tblVehicleEF	LHD2	5.9200e-003	6.2610e-003
tblVehicleEF	LHD2	2.6500e-004	7.6000e-005
tblVehicleEF	LHD2	2.5220e-003	3.0280e-003
tblVehicleEF	LHD2	0.04	0.06
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	1.5220e-003	1.7650e-003
tblVehicleEF	LHD2	0.07	0.07
tblVehicleEF	LHD2	0.09	0.29
tblVehicleEF	LHD2	0.11	0.05
tblVehicleEF	LHD2	3.5950e-003	3.3110e-003
tblVehicleEF	LHD2	4.6180e-003	4.1630e-003
tblVehicleEF	LHD2	8.0640e-003	9.4270e-003
tblVehicleEF	LHD2	0.12	0.14
tblVehicleEF	LHD2	0.50	0.56

tblVehicleEF	LHD2	1.19	0.60
tblVehicleEF	LHD2	14.27	14.55
tblVehicleEF	LHD2	608.52	648.96
tblVehicleEF	LHD2	24.46	7.77
tblVehicleEF	LHD2	0.11	0.11
tblVehicleEF	LHD2	1.46	1.62
tblVehicleEF	LHD2	1.2830e-003	1.4030e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	4.0000e-004	1.2600e-004
tblVehicleEF	LHD2	1.2280e-003	1.3430e-003
tblVehicleEF	LHD2	2.6860e-003	2.6930e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	3.6800e-004	1.1600e-004
tblVehicleEF	LHD2	1.3460e-003	1.6400e-003
tblVehicleEF	LHD2	0.04	0.05
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	6.8700e-004	7.8100e-004
tblVehicleEF	LHD2	0.06	0.06
tblVehicleEF	LHD2	0.10	0.31
tblVehicleEF	LHD2	0.11	0.05
tblVehicleEF	LHD2	5.9200e-003	6.2610e-003
tblVehicleEF	LHD2	2.6600e-004	7.7000e-005
tblVehicleEF	LHD2	1.3460e-003	1.6400e-003
tblVehicleEF	LHD2	0.04	0.05
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	6.8700e-004	7.8100e-004

tblVehicleEF	LHD2	0.07	0.07
tblVehicleEF	LHD2	0.10	0.31
tblVehicleEF	LHD2	0.12	0.05
tblVehicleEF	MCY	0.43	0.33
tblVehicleEF	MCY	0.16	0.25
tblVehicleEF	MCY	20.55	20.74
tblVehicleEF	MCY	9.93	8.78
tblVehicleEF	MCY	167.73	210.98
tblVehicleEF	MCY	46.45	61.55
tblVehicleEF	MCY	1.16	1.17
tblVehicleEF	MCY	1.8610e-003	1.8280e-003
tblVehicleEF	MCY	3.6730e-003	3.0520e-003
tblVehicleEF	MCY	1.7420e-003	1.7110e-003
tblVehicleEF	MCY	3.4650e-003	2.8770e-003
tblVehicleEF	MCY	1.45	1.44
tblVehicleEF	MCY	0.84	0.84
tblVehicleEF	MCY	0.80	0.80
tblVehicleEF	MCY	2.23	2.23
tblVehicleEF	MCY	0.49	2.04
tblVehicleEF	MCY	2.16	1.90
tblVehicleEF	MCY	2.0770e-003	2.0880e-003
tblVehicleEF	MCY	6.9000e-004	6.0900e-004
tblVehicleEF	MCY	1.45	1.44
tblVehicleEF	MCY	0.84	0.84
tblVehicleEF	MCY	0.80	0.80
tblVehicleEF	MCY	2.74	2.74
tblVehicleEF	MCY	0.49	2.04

tblVehicleEF	MCY	2.35	2.07
tblVehicleEF	MCY	0.42	0.32
tblVehicleEF	MCY	0.14	0.22
tblVehicleEF	MCY	20.68	20.87
tblVehicleEF	MCY	9.05	7.97
tblVehicleEF	MCY	167.73	210.98
tblVehicleEF	MCY	46.45	59.35
tblVehicleEF	MCY	0.99	0.99
tblVehicleEF	MCY	1.8610e-003	1.8280e-003
tblVehicleEF	MCY	3.6730e-003	3.0520e-003
tblVehicleEF	MCY	1.7420e-003	1.7110e-003
tblVehicleEF	MCY	3.4650e-003	2.8770e-003
tblVehicleEF	MCY	3.14	3.14
tblVehicleEF	MCY	1.27	1.28
tblVehicleEF	MCY	2.13	2.12
tblVehicleEF	MCY	2.17	2.17
tblVehicleEF	MCY	0.49	2.03
tblVehicleEF	MCY	1.86	1.63
tblVehicleEF	MCY	2.0770e-003	2.0880e-003
tblVehicleEF	MCY	6.6700e-004	5.8700e-004
tblVehicleEF	MCY	3.14	3.14
tblVehicleEF	MCY	1.27	1.28
tblVehicleEF	MCY	2.13	2.12
tblVehicleEF	MCY	2.67	2.67
tblVehicleEF	MCY	0.49	2.03
tblVehicleEF	MCY	2.02	1.77
tblVehicleEF	MCY	0.42	0.32

tblVehicleEF	MCY	0.15	0.24
tblVehicleEF	MCY	19.63	19.79
tblVehicleEF	MCY	9.55	8.43
tblVehicleEF	MCY	167.73	209.35
tblVehicleEF	MCY	46.45	60.75
tblVehicleEF	MCY	1.12	1.12
tblVehicleEF	MCY	1.8610e-003	1.8280e-003
tblVehicleEF	MCY	3.6730e-003	3.0520e-003
tblVehicleEF	MCY	1.7420e-003	1.7110e-003
tblVehicleEF	MCY	3.4650e-003	2.8770e-003
tblVehicleEF	MCY	1.71	1.70
tblVehicleEF	MCY	1.13	1.12
tblVehicleEF	MCY	0.72	0.71
tblVehicleEF	MCY	2.19	2.20
tblVehicleEF	MCY	0.56	2.32
tblVehicleEF	MCY	2.08	1.83
tblVehicleEF	MCY	2.0610e-003	2.0720e-003
tblVehicleEF	MCY	6.8200e-004	6.0100e-004
tblVehicleEF	MCY	1.71	1.70
tblVehicleEF	MCY	1.13	1.12
tblVehicleEF	MCY	0.72	0.71
tblVehicleEF	MCY	2.69	2.69
tblVehicleEF	MCY	0.56	2.32
tblVehicleEF	MCY	2.27	1.99
tblVehicleEF	MDV	0.01	5.5560e-003
tblVehicleEF	MDV	0.02	0.09
tblVehicleEF	MDV	1.35	1.14

tblVehicleEF	MDV	3.25	3.33
tblVehicleEF	MDV	483.94	412.02
tblVehicleEF	MDV	107.92	87.05
tblVehicleEF	MDV	0.17	0.12
tblVehicleEF	MDV	1.8260e-003	1.6290e-003
tblVehicleEF	MDV	2.5170e-003	2.0560e-003
tblVehicleEF	MDV	1.6830e-003	1.5030e-003
tblVehicleEF	MDV	2.3150e-003	1.8910e-003
tblVehicleEF	MDV	0.10	0.12
tblVehicleEF	MDV	0.20	0.17
tblVehicleEF	MDV	0.08	0.10
tblVehicleEF	MDV	0.03	0.02
tblVehicleEF	MDV	0.11	0.52
tblVehicleEF	MDV	0.25	0.45
tblVehicleEF	MDV	4.8500e-003	4.0740e-003
tblVehicleEF	MDV	1.1370e-003	8.6100e-004
tblVehicleEF	MDV	0.10	0.12
tblVehicleEF	MDV	0.20	0.17
tblVehicleEF	MDV	0.08	0.10
tblVehicleEF	MDV	0.05	0.03
tblVehicleEF	MDV	0.11	0.52
tblVehicleEF	MDV	0.28	0.50
tblVehicleEF	MDV	0.01	6.3580e-003
tblVehicleEF	MDV	0.02	0.08
tblVehicleEF	MDV	1.64	1.38
tblVehicleEF	MDV	2.69	2.75
tblVehicleEF	MDV	526.85	437.99

tblVehicleEF	MDV	107.92	85.88
tblVehicleEF	MDV	0.16	0.11
tblVehicleEF	MDV	1.8260e-003	1.6290e-003
tblVehicleEF	MDV	2.5170e-003	2.0560e-003
tblVehicleEF	MDV	1.6830e-003	1.5030e-003
tblVehicleEF	MDV	2.3150e-003	1.8910e-003
tblVehicleEF	MDV	0.20	0.24
tblVehicleEF	MDV	0.23	0.20
tblVehicleEF	MDV	0.17	0.21
tblVehicleEF	MDV	0.04	0.03
tblVehicleEF	MDV	0.11	0.52
tblVehicleEF	MDV	0.21	0.38
tblVehicleEF	MDV	5.2830e-003	4.3310e-003
tblVehicleEF	MDV	1.1260e-003	8.5000e-004
tblVehicleEF	MDV	0.20	0.24
tblVehicleEF	MDV	0.23	0.20
tblVehicleEF	MDV	0.17	0.21
tblVehicleEF	MDV	0.05	0.04
tblVehicleEF	MDV	0.11	0.52
tblVehicleEF	MDV	0.23	0.42
tblVehicleEF	MDV	0.01	5.4100e-003
tblVehicleEF	MDV	0.02	0.09
tblVehicleEF	MDV	1.28	1.08
tblVehicleEF	MDV	3.20	3.28
tblVehicleEF	MDV	473.93	405.86
tblVehicleEF	MDV	107.92	86.95
tblVehicleEF	MDV	0.16	0.11

tblVehicleEF	MDV	1.8260e-003	1.6290e-003
tblVehicleEF	MDV	2.5170e-003	2.0560e-003
tblVehicleEF	MDV	1.6830e-003	1.5030e-003
tblVehicleEF	MDV	2.3150e-003	1.8910e-003
tblVehicleEF	MDV	0.10	0.11
tblVehicleEF	MDV	0.22	0.19
tblVehicleEF	MDV	0.08	0.10
tblVehicleEF	MDV	0.03	0.02
tblVehicleEF	MDV	0.13	0.60
tblVehicleEF	MDV	0.25	0.45
tblVehicleEF	MDV	4.7490e-003	4.0130e-003
tblVehicleEF	MDV	1.1360e-003	8.6000e-004
tblVehicleEF	MDV	0.10	0.11
tblVehicleEF	MDV	0.22	0.19
tblVehicleEF	MDV	0.08	0.10
tblVehicleEF	MDV	0.04	0.03
tblVehicleEF	MDV	0.13	0.60
tblVehicleEF	MDV	0.27	0.49
tblVehicleEF	MH	0.04	3.7970e-003
tblVehicleEF	MH	0.03	0.00
tblVehicleEF	MH	3.07	0.36
tblVehicleEF	MH	6.43	0.00
tblVehicleEF	MH	1,045.05	951.23
tblVehicleEF	MH	59.49	0.00
tblVehicleEF	MH	1.54	4.54
tblVehicleEF	MH	0.01	0.02
tblVehicleEF	MH	0.04	0.14

tblVehicleEF	MH	1.1740e-003	0.00
tblVehicleEF	MH	3.2230e-003	4.0000e-003
tblVehicleEF	MH	0.04	0.14
tblVehicleEF	MH	1.0790e-003	0.00
tblVehicleEF	MH	1.47	0.00
tblVehicleEF	MH	0.09	0.00
tblVehicleEF	MH	0.51	0.00
tblVehicleEF	MH	0.10	0.08
tblVehicleEF	MH	0.03	0.00
tblVehicleEF	MH	0.37	0.00
tblVehicleEF	MH	0.01	8.9930e-003
tblVehicleEF	MH	7.0700e-004	0.00
tblVehicleEF	MH	1.47	0.00
tblVehicleEF	MH	0.09	0.00
tblVehicleEF	MH	0.51	0.00
tblVehicleEF	MH	0.14	0.09
tblVehicleEF	MH	0.03	0.00
tblVehicleEF	MH	0.40	0.00
tblVehicleEF	MH	0.04	3.7970e-003
tblVehicleEF	MH	0.03	0.00
tblVehicleEF	MH	3.19	0.36
tblVehicleEF	MH	5.84	0.00
tblVehicleEF	MH	1,045.05	951.23
tblVehicleEF	MH	59.49	0.00
tblVehicleEF	MH	1.41	4.26
tblVehicleEF	MH	0.01	0.02
tblVehicleEF	MH	0.04	0.14

tblVehicleEF	MH	1.1740e-003	0.00
tblVehicleEF	MH	3.2230e-003	4.0000e-003
tblVehicleEF	MH	0.04	0.14
tblVehicleEF	MH	1.0790e-003	0.00
tblVehicleEF	MH	2.91	0.00
tblVehicleEF	MH	0.11	0.00
tblVehicleEF	MH	1.21	0.00
tblVehicleEF	MH	0.11	0.08
tblVehicleEF	MH	0.03	0.00
tblVehicleEF	MH	0.34	0.00
tblVehicleEF	MH	0.01	8.9930e-003
tblVehicleEF	MH	6.9700e-004	0.00
tblVehicleEF	MH	2.91	0.00
tblVehicleEF	MH	0.11	0.00
tblVehicleEF	MH	1.21	0.00
tblVehicleEF	MH	0.15	0.09
tblVehicleEF	MH	0.03	0.00
tblVehicleEF	MH	0.38	0.00
tblVehicleEF	MH	0.04	3.7970e-003
tblVehicleEF	MH	0.03	0.00
tblVehicleEF	MH	3.08	0.36
tblVehicleEF	MH	6.36	0.00
tblVehicleEF	MH	1,045.05	951.23
tblVehicleEF	MH	59.49	0.00
tblVehicleEF	MH	1.51	4.46
tblVehicleEF	MH	0.01	0.02
tblVehicleEF	MH	0.04	0.14

tblVehicleEF	MH	1.1740e-003	0.00
tblVehicleEF	MH	3.2230e-003	4.0000e-003
tblVehicleEF	MH	0.04	0.14
tblVehicleEF	MH	1.0790e-003	0.00
tblVehicleEF	MH	1.75	0.00
tblVehicleEF	MH	0.11	0.00
tblVehicleEF	MH	0.53	0.00
tblVehicleEF	MH	0.10	0.08
tblVehicleEF	MH	0.03	0.00
tblVehicleEF	MH	0.37	0.00
tblVehicleEF	MH	0.01	8.9930e-003
tblVehicleEF	MH	7.0600e-004	0.00
tblVehicleEF	MH	1.75	0.00
tblVehicleEF	MH	0.11	0.00
tblVehicleEF	MH	0.53	0.00
tblVehicleEF	MH	0.15	0.09
tblVehicleEF	MH	0.03	0.00
tblVehicleEF	MH	0.40	0.00
tblVehicleEF	MHD	0.02	3.1740e-003
tblVehicleEF	MHD	3.5160e-003	3.4880e-003
tblVehicleEF	MHD	0.05	8.5120e-003
tblVehicleEF	MHD	0.32	0.34
tblVehicleEF	MHD	0.27	0.35
tblVehicleEF	MHD	5.32	0.97
tblVehicleEF	MHD	156.91	69.07
tblVehicleEF	MHD	1,101.52	999.60
tblVehicleEF	MHD	52.43	8.24

tblVehicleEF	MHD	0.60	0.51
tblVehicleEF	MHD	0.99	1.54
tblVehicleEF	MHD	3.8600e-004	1.1810e-003
tblVehicleEF	MHD	5.0030e-003	0.03
tblVehicleEF	MHD	7.6400e-004	1.0000e-004
tblVehicleEF	MHD	3.6900e-004	1.1300e-003
tblVehicleEF	MHD	4.7830e-003	0.03
tblVehicleEF	MHD	7.0300e-004	9.2000e-005
tblVehicleEF	MHD	1.2800e-003	5.9300e-004
tblVehicleEF	MHD	0.04	0.02
tblVehicleEF	MHD	0.02	0.02
tblVehicleEF	MHD	6.5100e-004	3.0000e-004
tblVehicleEF	MHD	0.04	0.05
tblVehicleEF	MHD	0.02	0.11
tblVehicleEF	MHD	0.32	0.04
tblVehicleEF	MHD	1.5080e-003	6.5500e-004
tblVehicleEF	MHD	0.01	9.5250e-003
tblVehicleEF	MHD	6.1700e-004	8.2000e-005
tblVehicleEF	MHD	1.2800e-003	5.9300e-004
tblVehicleEF	MHD	0.04	0.02
tblVehicleEF	MHD	0.03	0.02
tblVehicleEF	MHD	6.5100e-004	3.0000e-004
tblVehicleEF	MHD	0.04	0.06
tblVehicleEF	MHD	0.02	0.11
tblVehicleEF	MHD	0.35	0.05
tblVehicleEF	MHD	0.02	3.0170e-003
tblVehicleEF	MHD	3.5800e-003	3.5290e-003

tblVehicleEF	MHD	0.05	8.1180e-003
tblVehicleEF	MHD	0.24	0.28
tblVehicleEF	MHD	0.28	0.36
tblVehicleEF	MHD	4.97	0.91
tblVehicleEF	MHD	166.20	69.79
tblVehicleEF	MHD	1,101.52	999.60
tblVehicleEF	MHD	52.43	8.13
tblVehicleEF	MHD	0.62	0.51
tblVehicleEF	MHD	0.92	1.44
tblVehicleEF	MHD	3.2500e-004	9.9900e-004
tblVehicleEF	MHD	5.0030e-003	0.03
tblVehicleEF	MHD	7.6400e-004	1.0000e-004
tblVehicleEF	MHD	3.1100e-004	9.5500e-004
tblVehicleEF	MHD	4.7830e-003	0.03
tblVehicleEF	MHD	7.0300e-004	9.2000e-005
tblVehicleEF	MHD	2.5300e-003	1.1740e-003
tblVehicleEF	MHD	0.05	0.02
tblVehicleEF	MHD	0.02	0.02
tblVehicleEF	MHD	1.5010e-003	6.9400e-004
tblVehicleEF	MHD	0.04	0.05
tblVehicleEF	MHD	0.02	0.11
tblVehicleEF	MHD	0.30	0.04
tblVehicleEF	MHD	1.5950e-003	6.6200e-004
tblVehicleEF	MHD	0.01	9.5250e-003
tblVehicleEF	MHD	6.1100e-004	8.1000e-005
tblVehicleEF	MHD	2.5300e-003	1.1740e-003
tblVehicleEF	MHD	0.05	0.02

tblVehicleEF	MHD	0.03	0.02
tblVehicleEF	MHD	1.5010e-003	6.9400e-004
tblVehicleEF	MHD	0.04	0.06
tblVehicleEF	MHD	0.02	0.11
tblVehicleEF	MHD	0.33	0.05
tblVehicleEF	MHD	0.02	3.4070e-003
tblVehicleEF	MHD	3.5220e-003	3.4910e-003
tblVehicleEF	MHD	0.05	8.4150e-003
tblVehicleEF	MHD	0.45	0.41
tblVehicleEF	MHD	0.27	0.35
tblVehicleEF	MHD	5.23	0.96
tblVehicleEF	MHD	144.06	68.08
tblVehicleEF	MHD	1,101.52	999.60
tblVehicleEF	MHD	52.43	8.22
tblVehicleEF	MHD	0.57	0.51
tblVehicleEF	MHD	0.97	1.51
tblVehicleEF	MHD	4.7000e-004	1.4340e-003
tblVehicleEF	MHD	5.0030e-003	0.03
tblVehicleEF	MHD	7.6400e-004	1.0000e-004
tblVehicleEF	MHD	4.4900e-004	1.3720e-003
tblVehicleEF	MHD	4.7830e-003	0.03
tblVehicleEF	MHD	7.0300e-004	9.2000e-005
tblVehicleEF	MHD	1.3890e-003	6.4600e-004
tblVehicleEF	MHD	0.05	0.02
tblVehicleEF	MHD	0.03	0.02
tblVehicleEF	MHD	6.4000e-004	2.9500e-004
tblVehicleEF	MHD	0.04	0.05

tblVehicleEF	MHD	0.02	0.12
tblVehicleEF	MHD	0.32	0.04
tblVehicleEF	MHD	1.3860e-003	6.4600e-004
tblVehicleEF	MHD	0.01	9.5250e-003
tblVehicleEF	MHD	6.1600e-004	8.1000e-005
tblVehicleEF	MHD	1.3890e-003	6.4600e-004
tblVehicleEF	MHD	0.05	0.02
tblVehicleEF	MHD	0.04	0.02
tblVehicleEF	MHD	6.4000e-004	2.9500e-004
tblVehicleEF	MHD	0.04	0.06
tblVehicleEF	MHD	0.02	0.12
tblVehicleEF	MHD	0.35	0.05
tblVehicleEF	OBUS	0.01	9.1480e-003
tblVehicleEF	OBUS	9.9110e-003	8.5440e-003
tblVehicleEF	OBUS	0.03	0.03
tblVehicleEF	OBUS	0.26	0.48
tblVehicleEF	OBUS	0.63	0.98
tblVehicleEF	OBUS	6.27	2.73
tblVehicleEF	OBUS	70.35	66.56
tblVehicleEF	OBUS	1,121.50	1,475.42
tblVehicleEF	OBUS	70.70	21.88
tblVehicleEF	OBUS	0.28	0.29
tblVehicleEF	OBUS	0.97	1.13
tblVehicleEF	OBUS	6.4000e-005	5.0000e-004
tblVehicleEF	OBUS	4.6440e-003	0.01
tblVehicleEF	OBUS	9.2900e-004	2.3000e-004
tblVehicleEF	OBUS	6.1000e-005	4.7800e-004

tblVehicleEF	OBUS	4.4220e-003	0.01
tblVehicleEF	OBUS	8.5400e-004	2.1200e-004
tblVehicleEF	OBUS	2.1800e-003	2.7870e-003
tblVehicleEF	OBUS	0.02	0.03
tblVehicleEF	OBUS	0.04	0.05
tblVehicleEF	OBUS	9.3100e-004	1.1430e-003
tblVehicleEF	OBUS	0.04	0.06
tblVehicleEF	OBUS	0.05	0.31
tblVehicleEF	OBUS	0.38	0.13
tblVehicleEF	OBUS	6.8400e-004	6.3600e-004
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	8.1700e-004	2.1700e-004
tblVehicleEF	OBUS	2.1800e-003	2.7870e-003
tblVehicleEF	OBUS	0.02	0.03
tblVehicleEF	OBUS	0.05	0.07
tblVehicleEF	OBUS	9.3100e-004	1.1430e-003
tblVehicleEF	OBUS	0.06	0.07
tblVehicleEF	OBUS	0.05	0.31
tblVehicleEF	OBUS	0.42	0.14
tblVehicleEF	OBUS	0.01	9.2020e-003
tblVehicleEF	OBUS	0.01	8.7760e-003
tblVehicleEF	OBUS	0.03	0.02
tblVehicleEF	OBUS	0.26	0.47
tblVehicleEF	OBUS	0.65	1.01
tblVehicleEF	OBUS	5.74	2.51
tblVehicleEF	OBUS	73.50	66.43
tblVehicleEF	OBUS	1,121.50	1,475.46

tblVehicleEF	OBUS	70.70	21.50
tblVehicleEF	OBUS	0.29	0.28
tblVehicleEF	OBUS	0.90	1.04
tblVehicleEF	OBUS	5.4000e-005	4.2500e-004
tblVehicleEF	OBUS	4.6440e-003	0.01
tblVehicleEF	OBUS	9.2900e-004	2.3000e-004
tblVehicleEF	OBUS	5.1000e-005	4.0700e-004
tblVehicleEF	OBUS	4.4220e-003	0.01
tblVehicleEF	OBUS	8.5400e-004	2.1200e-004
tblVehicleEF	OBUS	4.2350e-003	5.4310e-003
tblVehicleEF	OBUS	0.02	0.03
tblVehicleEF	OBUS	0.03	0.05
tblVehicleEF	OBUS	2.1330e-003	2.6360e-003
tblVehicleEF	OBUS	0.05	0.06
tblVehicleEF	OBUS	0.05	0.31
tblVehicleEF	OBUS	0.36	0.12
tblVehicleEF	OBUS	7.1400e-004	6.3500e-004
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	8.0800e-004	2.1300e-004
tblVehicleEF	OBUS	4.2350e-003	5.4310e-003
tblVehicleEF	OBUS	0.02	0.03
tblVehicleEF	OBUS	0.05	0.07
tblVehicleEF	OBUS	2.1330e-003	2.6360e-003
tblVehicleEF	OBUS	0.06	0.08
tblVehicleEF	OBUS	0.05	0.31
tblVehicleEF	OBUS	0.40	0.14
tblVehicleEF	OBUS	0.01	9.1130e-003

tblVehicleEF	OBUS	9.9380e-003	8.5700e-003
tblVehicleEF	OBUS	0.03	0.03
tblVehicleEF	OBUS	0.28	0.49
tblVehicleEF	OBUS	0.63	0.99
tblVehicleEF	OBUS	6.22	2.71
tblVehicleEF	OBUS	66.00	66.75
tblVehicleEF	OBUS	1,121.50	1,475.42
tblVehicleEF	OBUS	70.70	21.85
tblVehicleEF	OBUS	0.27	0.30
tblVehicleEF	OBUS	0.96	1.11
tblVehicleEF	OBUS	7.7000e-005	6.0400e-004
tblVehicleEF	OBUS	4.6440e-003	0.01
tblVehicleEF	OBUS	9.2900e-004	2.3000e-004
tblVehicleEF	OBUS	7.4000e-005	5.7800e-004
tblVehicleEF	OBUS	4.4220e-003	0.01
tblVehicleEF	OBUS	8.5400e-004	2.1200e-004
tblVehicleEF	OBUS	2.3200e-003	3.0070e-003
tblVehicleEF	OBUS	0.02	0.03
tblVehicleEF	OBUS	0.04	0.05
tblVehicleEF	OBUS	9.4100e-004	1.1540e-003
tblVehicleEF	OBUS	0.04	0.06
tblVehicleEF	OBUS	0.05	0.33
tblVehicleEF	OBUS	0.38	0.13
tblVehicleEF	OBUS	6.4200e-004	6.3800e-004
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	8.1600e-004	2.1600e-004
tblVehicleEF	OBUS	2.3200e-003	3.0070e-003

tblVehicleEF	OBUS	0.02	0.03
tblVehicleEF	OBUS	0.05	0.06
tblVehicleEF	OBUS	9.4100e-004	1.1540e-003
tblVehicleEF	OBUS	0.06	0.08
tblVehicleEF	OBUS	0.05	0.33
tblVehicleEF	OBUS	0.42	0.14
tblVehicleEF	SBUS	0.84	0.04
tblVehicleEF	SBUS	0.01	6.8550e-003
tblVehicleEF	SBUS	0.07	4.0770e-003
tblVehicleEF	SBUS	5.71	1.90
tblVehicleEF	SBUS	0.65	0.58
tblVehicleEF	SBUS	5.33	0.55
tblVehicleEF	SBUS	1,258.13	336.22
tblVehicleEF	SBUS	1,136.31	1,128.72
tblVehicleEF	SBUS	37.11	3.21
tblVehicleEF	SBUS	11.70	3.35
tblVehicleEF	SBUS	4.77	5.07
tblVehicleEF	SBUS	0.01	4.0350e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.03	0.03
tblVehicleEF	SBUS	5.1700e-004	3.0000e-005
tblVehicleEF	SBUS	0.01	3.8600e-003
tblVehicleEF	SBUS	2.7560e-003	2.7660e-003
tblVehicleEF	SBUS	0.03	0.03
tblVehicleEF	SBUS	4.7500e-004	2.8000e-005
tblVehicleEF	SBUS	2.9260e-003	7.3800e-004
tblVehicleEF	SBUS	0.02	5.5390e-003

tblVehicleEF	SBUS	0.68	0.20
tblVehicleEF	SBUS	1.3050e-003	3.4800e-004
tblVehicleEF	SBUS	0.11	0.10
tblVehicleEF	SBUS	9.3510e-003	0.04
tblVehicleEF	SBUS	0.27	0.02
tblVehicleEF	SBUS	0.01	3.1960e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	4.6300e-004	3.2000e-005
tblVehicleEF	SBUS	2.9260e-003	7.3800e-004
tblVehicleEF	SBUS	0.02	5.5390e-003
tblVehicleEF	SBUS	0.97	0.28
tblVehicleEF	SBUS	1.3050e-003	3.4800e-004
tblVehicleEF	SBUS	0.13	0.11
tblVehicleEF	SBUS	9.3510e-003	0.04
tblVehicleEF	SBUS	0.30	0.03
tblVehicleEF	SBUS	0.84	0.04
tblVehicleEF	SBUS	0.01	6.9390e-003
tblVehicleEF	SBUS	0.06	3.3780e-003
tblVehicleEF	SBUS	5.56	1.86
tblVehicleEF	SBUS	0.66	0.59
tblVehicleEF	SBUS	3.65	0.39
tblVehicleEF	SBUS	1,322.00	344.13
tblVehicleEF	SBUS	1,136.31	1,128.74
tblVehicleEF	SBUS	37.11	2.94
tblVehicleEF	SBUS	12.08	3.42
tblVehicleEF	SBUS	4.47	4.75
tblVehicleEF	SBUS	0.01	3.4090e-003

tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.03	0.03
tblVehicleEF	SBUS	5.1700e-004	3.0000e-005
tblVehicleEF	SBUS	9.6490e-003	3.2620e-003
tblVehicleEF	SBUS	2.7560e-003	2.7660e-003
tblVehicleEF	SBUS	0.03	0.03
tblVehicleEF	SBUS	4.7500e-004	2.8000e-005
tblVehicleEF	SBUS	5.6170e-003	1.3280e-003
tblVehicleEF	SBUS	0.02	5.8520e-003
tblVehicleEF	SBUS	0.67	0.20
tblVehicleEF	SBUS	2.8800e-003	6.7400e-004
tblVehicleEF	SBUS	0.11	0.10
tblVehicleEF	SBUS	8.5310e-003	0.03
tblVehicleEF	SBUS	0.22	0.02
tblVehicleEF	SBUS	0.01	3.2700e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	4.3500e-004	2.9000e-005
tblVehicleEF	SBUS	5.6170e-003	1.3280e-003
tblVehicleEF	SBUS	0.02	5.8520e-003
tblVehicleEF	SBUS	0.97	0.28
tblVehicleEF	SBUS	2.8800e-003	6.7400e-004
tblVehicleEF	SBUS	0.13	0.12
tblVehicleEF	SBUS	8.5310e-003	0.03
tblVehicleEF	SBUS	0.24	0.02
tblVehicleEF	SBUS	0.84	0.04
tblVehicleEF	SBUS	0.01	6.8510e-003
tblVehicleEF	SBUS	0.07	4.1760e-003

tblVehicleEF	SBUS	5.91	1.95
tblVehicleEF	SBUS	0.65	0.58
tblVehicleEF	SBUS	5.37	0.57
tblVehicleEF	SBUS	1,169.92	325.30
tblVehicleEF	SBUS	1,136.31	1,128.72
tblVehicleEF	SBUS	37.11	3.24
tblVehicleEF	SBUS	11.19	3.26
tblVehicleEF	SBUS	4.69	4.99
tblVehicleEF	SBUS	0.01	4.8980e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.03	0.03
tblVehicleEF	SBUS	5.1700e-004	3.0000e-005
tblVehicleEF	SBUS	0.01	4.6860e-003
tblVehicleEF	SBUS	2.7560e-003	2.7660e-003
tblVehicleEF	SBUS	0.03	0.03
tblVehicleEF	SBUS	4.7500e-004	2.8000e-005
tblVehicleEF	SBUS	2.9580e-003	7.2600e-004
tblVehicleEF	SBUS	0.02	5.8800e-003
tblVehicleEF	SBUS	0.68	0.20
tblVehicleEF	SBUS	1.2820e-003	3.5300e-004
tblVehicleEF	SBUS	0.11	0.10
tblVehicleEF	SBUS	0.01	0.05
tblVehicleEF	SBUS	0.28	0.02
tblVehicleEF	SBUS	0.01	3.0930e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	4.6400e-004	3.2000e-005
tblVehicleEF	SBUS	2.9580e-003	7.2600e-004

tblVehicleEF	SBUS	0.02	5.8800e-003
tblVehicleEF	SBUS	0.98	0.28
tblVehicleEF	SBUS	1.2820e-003	3.5300e-004
tblVehicleEF	SBUS	0.13	0.11
tblVehicleEF	SBUS	0.01	0.05
tblVehicleEF	SBUS	0.31	0.03
tblVehicleEF	UBUS	1.83	4.19
tblVehicleEF	UBUS	0.08	0.02
tblVehicleEF	UBUS	9.26	32.67
tblVehicleEF	UBUS	14.34	1.43
tblVehicleEF	UBUS	1,846.39	1,724.94
tblVehicleEF	UBUS	136.37	16.90
tblVehicleEF	UBUS	5.87	0.37
tblVehicleEF	UBUS	0.52	0.08
tblVehicleEF	UBUS	0.01	0.03
tblVehicleEF	UBUS	0.07	2.6830e-003
tblVehicleEF	UBUS	1.4030e-003	1.8900e-004
tblVehicleEF	UBUS	0.22	0.03
tblVehicleEF	UBUS	3.0000e-003	6.3130e-003
tblVehicleEF	UBUS	0.06	2.5510e-003
tblVehicleEF	UBUS	1.2900e-003	1.7400e-004
tblVehicleEF	UBUS	8.0860e-003	1.5320e-003
tblVehicleEF	UBUS	0.11	8.4710e-003
tblVehicleEF	UBUS	3.9450e-003	6.5200e-004
tblVehicleEF	UBUS	0.61	0.06
tblVehicleEF	UBUS	0.02	0.04
tblVehicleEF	UBUS	1.15	0.06

tblVehicleEF	UBUS	0.01	3.8820e-003
tblVehicleEF	UBUS	1.6240e-003	1.6700e-004
tblVehicleEF	UBUS	8.0860e-003	1.5320e-003
tblVehicleEF	UBUS	0.11	8.4710e-003
tblVehicleEF	UBUS	3.9450e-003	6.5200e-004
tblVehicleEF	UBUS	2.50	4.28
tblVehicleEF	UBUS	0.02	0.04
tblVehicleEF	UBUS	1.25	0.07
tblVehicleEF	UBUS	1.83	4.19
tblVehicleEF	UBUS	0.08	0.01
tblVehicleEF	UBUS	9.36	32.67
tblVehicleEF	UBUS	11.74	1.17
tblVehicleEF	UBUS	1,846.39	1,724.94
tblVehicleEF	UBUS	136.37	16.47
tblVehicleEF	UBUS	5.45	0.37
tblVehicleEF	UBUS	0.52	0.08
tblVehicleEF	UBUS	0.01	0.03
tblVehicleEF	UBUS	0.07	2.6830e-003
tblVehicleEF	UBUS	1.4030e-003	1.8900e-004
tblVehicleEF	UBUS	0.22	0.03
tblVehicleEF	UBUS	3.0000e-003	6.3130e-003
tblVehicleEF	UBUS	0.06	2.5510e-003
tblVehicleEF	UBUS	1.2900e-003	1.7400e-004
tblVehicleEF	UBUS	0.02	2.9020e-003
tblVehicleEF	UBUS	0.14	0.01
tblVehicleEF	UBUS	9.3320e-003	1.4770e-003
tblVehicleEF	UBUS	0.62	0.06

tblVehicleEF	UBUS	0.02	0.04
tblVehicleEF	UBUS	1.02	0.06
tblVehicleEF	UBUS	0.01	3.8820e-003
tblVehicleEF	UBUS	1.5790e-003	1.6300e-004
tblVehicleEF	UBUS	0.02	2.9020e-003
tblVehicleEF	UBUS	0.14	0.01
tblVehicleEF	UBUS	9.3320e-003	1.4770e-003
tblVehicleEF	UBUS	2.52	4.28
tblVehicleEF	UBUS	0.02	0.04
tblVehicleEF	UBUS	1.12	0.06
tblVehicleEF	UBUS	1.83	4.19
tblVehicleEF	UBUS	0.08	0.02
tblVehicleEF	UBUS	9.27	32.67
tblVehicleEF	UBUS	13.86	1.39
tblVehicleEF	UBUS	1,846.39	1,724.94
tblVehicleEF	UBUS	136.37	16.85
tblVehicleEF	UBUS	5.76	0.37
tblVehicleEF	UBUS	0.52	0.08
tblVehicleEF	UBUS	0.01	0.03
tblVehicleEF	UBUS	0.07	2.6830e-003
tblVehicleEF	UBUS	1.4030e-003	1.8900e-004
tblVehicleEF	UBUS	0.22	0.03
tblVehicleEF	UBUS	3.0000e-003	6.3130e-003
tblVehicleEF	UBUS	0.06	2.5510e-003
tblVehicleEF	UBUS	1.2900e-003	1.7400e-004
tblVehicleEF	UBUS	9.2250e-003	1.6220e-003
tblVehicleEF	UBUS	0.14	9.7130e-003

tblVehicleEF	UBUS	4.1190e-003	6.4800e-004
tblVehicleEF	UBUS	0.61	0.06
tblVehicleEF	UBUS	0.03	0.04
tblVehicleEF	UBUS	1.13	0.06
tblVehicleEF	UBUS	0.01	3.8820e-003
tblVehicleEF	UBUS	1.6160e-003	1.6700e-004
tblVehicleEF	UBUS	9.2250e-003	1.6220e-003
tblVehicleEF	UBUS	0.14	9.7130e-003
tblVehicleEF	UBUS	4.1190e-003	6.4800e-004
tblVehicleEF	UBUS	2.50	4.28
tblVehicleEF	UBUS	0.03	0.04
tblVehicleEF	UBUS	1.24	0.07
tblVehicleTrips	CC_TL	8.40	0.00
tblVehicleTrips	CC_TL	8.40	0.00
tblVehicleTrips	CC_TL	8.40	0.00
tblVehicleTrips	CC_TL	8.40	0.00
tblVehicleTrips	CNW_TL	6.90	0.00
tblVehicleTrips	CNW_TL	6.90	0.00
tblVehicleTrips	CNW_TL	6.90	0.00
tblVehicleTrips	CNW_TL	6.90	0.00
tblVehicleTrips	CNW_TTP	41.00	0.00
tblVehicleTrips	CW_TL	16.60	0.00
tblVehicleTrips	CW_TL	16.60	0.00
tblVehicleTrips	CW_TL	16.60	0.00
tblVehicleTrips	CW_TL	16.60	0.00
tblVehicleTrips	CW_TTP	59.00	0.00
tblVehicleTrips	DV_TP	5.00	0.00

tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PR_TP	92.00	0.00
tblVehicleTrips	ST_TR	1.68	0.00
tblVehicleTrips	SU_TR	1.68	0.00
tblVehicleTrips	WD_TR	1.68	0.00
tblWater	IndoorWaterUseRate	174,457,312.50	0.00

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2021	6.8596	60.8426	48.0103	0.1753	21.9792	2.6473	24.6265	10.3848	2.4355	12.8203	0.0000	17,673.1682	17,673.1682	2.2462	0.0000	17,716.7690
2022	62.0898	66.8437	67.3319	0.2137	9.9539	2.0368	11.9906	2.6748	1.9006	4.5754	0.0000	21,409.9948	21,409.9948	2.4807	0.0000	21,472.0122
Maximum	**62.0898**	**66.8437**	**67.3319**	**0.2137**	**21.9792**	**2.6473**	**24.6265**	**10.3848**	**2.4355**	**12.8203**	**0.0000**	**21,409.9948**	**21,409.9948**	**2.4807**	**0.0000**	**21,472.0122**

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2021	6.3870	54.7683	50.3139	0.1753	8.6946	1.9918	10.5608	4.0826	1.8485	5.8379	0.0000	17,673.1682	17,673.1682	2.2462	0.0000	17,716.7690
2022	61.6951	63.8370	69.7943	0.2137	9.9539	1.9243	11.8781	2.6748	1.8121	4.4868	0.0000	21,409.9948	21,409.9948	2.4807	0.0000	21,472.0122
Maximum	**61.6951**	**63.8370**	**69.7943**	**0.2137**	**9.9539**	**1.9918**	**11.8781**	**4.0826**	**1.8485**	**5.8379**	**0.0000**	**21,409.9948**	**21,409.9948**	**2.4807**	**0.0000**	**21,472.0122**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**1.26**	**7.11**	**-4.13**	**0.00**	**41.60**	**16.40**	**38.72**	**48.26**	**15.58**	**40.65**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	17.1751	1.5900e-003	0.1746	1.0000e-005		6.2000e-004	6.2000e-004		6.2000e-004	6.2000e-004		0.3736	0.3736	9.9000e-004		0.3982
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	**17.1751**	**1.5900e-003**	**0.1746**	**1.0000e-005**	**0.0000**	**6.2000e-004**	**6.2000e-004**	**0.0000**	**6.2000e-004**	**6.2000e-004**		**0.3736**	**0.3736**	**9.9000e-004**	**0.0000**	**0.3982**

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	17.1751	1.5900e-003	0.1746	1.0000e-005		6.2000e-004	6.2000e-004		6.2000e-004	6.2000e-004		0.3736	0.3736	9.9000e-004		0.3982
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	**17.1751**	**1.5900e-003**	**0.1746**	**1.0000e-005**	**0.0000**	**6.2000e-004**	**6.2000e-004**	**0.0000**	**6.2000e-004**	**6.2000e-004**		**0.3736**	**0.3736**	**9.9000e-004**	**0.0000**	**0.3982**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	6/1/2021	7/12/2021	5	30	
2	Site Preparation	Site Preparation	7/13/2021	8/9/2021	5	20	
3	Grading	Grading	8/10/2021	10/11/2021	5	45	
4	Building Construction	Building Construction	10/12/2021	6/20/2022	5	180	
5	Architectural Coating	Architectural Coating	3/15/2022	6/20/2022	5	70	
6	Paving	Paving	5/3/2022	6/20/2022	5	35	

Acres of Grading (Site Preparation Phase): 70

Acres of Grading (Grading Phase): 180

Acres of Paving: 16.3

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 1,131,612; Non-Residential Outdoor: 377,204; Striped Parking Area: 42,608 (Architectural Coating – sqft)

OffRoad Equipment

Fontana Foothills Commerce Center (Construction - Mitigated) - San Bernardino-South Coast County, Summer

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Excavators	3	8.00	158	0.38
Demolition	Rubber Tired Dozers	2	8.00	247	0.40
Site Preparation	Crawler Tractors	4	8.00	212	0.43
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Grading	Crawler Tractors	2	8.00	212	0.43
Grading	Excavators	2	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
Grading	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Building Construction	Cranes	1	8.00	231	0.29
Building Construction	Crawler Tractors	3	8.00	212	0.43
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Architectural Coating	Air Compressors	1	8.00	78	0.48
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	6	15.00	0.00	73.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	615.00	240.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	123.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Water Exposed Area

3.2 Demolition - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.5295	0.0000	0.5295	0.0802	0.0000	0.0802			0.0000			0.0000
Off-Road	3.1651	31.4407	21.5650	0.0388		1.5513	1.5513		1.4411	1.4411		3,747.9449	3,747.9449	1.0549		3,774.3174
Total	**3.1651**	**31.4407**	**21.5650**	**0.0388**	**0.5295**	**1.5513**	**2.0808**	**0.0802**	**1.4411**	**1.5213**		**3,747.9449**	**3,747.9449**	**1.0549**		**3,774.3174**

3.2 Demolition - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0145	0.5550	0.0860	1.8900e-003	0.0426	1.5700e-003	0.0442	0.0117	1.5000e-003	0.0132		200.7962	200.7962	0.0108		201.0653
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0762	0.0471	0.6210	1.6500e-003	0.1677	1.0700e-003	0.1687	0.0445	9.9000e-004	0.0455		164.1121	164.1121	4.6700e-003		164.2289
Total	**0.0907**	**0.6021**	**0.7069**	**3.5400e-003**	**0.2102**	**2.6400e-003**	**0.2129**	**0.0561**	**2.4900e-003**	**0.0586**		**364.9082**	**364.9082**	**0.0154**		**365.2941**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.2065	0.0000	0.2065	0.0313	0.0000	0.0313			0.0000			0.0000
Off-Road	2.3279	24.5121	22.0578	0.0388		1.1722	1.1722		1.1046	1.1046	0.0000	3,747.9449	3,747.9449	1.0549		3,774.3174
Total	**2.3279**	**24.5121**	**22.0578**	**0.0388**	**0.2065**	**1.1722**	**1.3787**	**0.0313**	**1.1046**	**1.1358**	**0.0000**	**3,747.9449**	**3,747.9449**	**1.0549**		**3,774.3174**

3.2 Demolition - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0145	0.5550	0.0860	1.8900e-003	0.0426	1.5700e-003	0.0442	0.0117	1.5000e-003	0.0132		200.7962	200.7962	0.0108		201.0653
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0762	0.0471	0.6210	1.6500e-003	0.1677	1.0700e-003	0.1687	0.0445	9.9000e-004	0.0455		164.1121	164.1121	4.6700e-003		164.2289
Total	**0.0907**	**0.6021**	**0.7069**	**3.5400e-003**	**0.2102**	**2.6400e-003**	**0.2129**	**0.0561**	**2.4900e-003**	**0.0586**		**364.9082**	**364.9082**	**0.0154**		**365.2941**

3.3 Site Preparation - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					21.7780	0.0000	21.7780	10.3315	0.0000	10.3315			0.0000			0.0000
Off-Road	5.3428	60.7861	21.8537	0.0570		2.6460	2.6460		2.4343	2.4343		5,523.5047	5,523.5047	1.7864		5,568.1651
Total	**5.3428**	**60.7861**	**21.8537**	**0.0570**	**21.7780**	**2.6460**	**24.4240**	**10.3315**	**2.4343**	**12.7658**		**5,523.5047**	**5,523.5047**	**1.7864**		**5,568.1651**

3.3 Site Preparation - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0915	0.0565	0.7452	1.9800e-003	0.2012	1.2900e-003	0.2025	0.0534	1.1900e-003	0.0545		196.9345	196.9345	5.6000e-003		197.0746
Total	**0.0915**	**0.0565**	**0.7452**	**1.9800e-003**	**0.2012**	**1.2900e-003**	**0.2025**	**0.0534**	**1.1900e-003**	**0.0545**		**196.9345**	**196.9345**	**5.6000e-003**		**197.0746**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					8.4934	0.0000	8.4934	4.0293	0.0000	4.0293			0.0000			0.0000
Off-Road	3.4568	44.6943	25.6644	0.0570		1.8649	1.8649		1.7541	1.7541	0.0000	5,523.5047	5,523.5047	1.7864		5,568.1651
Total	**3.4568**	**44.6943**	**25.6644**	**0.0570**	**8.4934**	**1.8649**	**10.3584**	**4.0293**	**1.7541**	**5.7833**	**0.0000**	**5,523.5047**	**5,523.5047**	**1.7864**		**5,568.1651**

3.3 Site Preparation - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0915	0.0565	0.7452	1.9800e-003	0.2012	1.2900e-003	0.2025	0.0534	1.1900e-003	0.0545		196.9345	196.9345	5.6000e-003		197.0746
Total	**0.0915**	**0.0565**	**0.7452**	**1.9800e-003**	**0.2012**	**1.2900e-003**	**0.2025**	**0.0534**	**1.1900e-003**	**0.0545**		**196.9345**	**196.9345**	**5.6000e-003**		**197.0746**

3.4 Grading - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					10.2641	0.0000	10.2641	3.7683	0.0000	3.7683			0.0000			0.0000
Off-Road	4.9185	56.5443	31.2281	0.0715		2.2861	2.2861		2.1032	2.1032		6,925.9674	6,925.9674	2.2400		6,981.9673
Total	**4.9185**	**56.5443**	**31.2281**	**0.0715**	**10.2641**	**2.2861**	**12.5502**	**3.7683**	**2.1032**	**5.8715**		**6,925.9674**	**6,925.9674**	**2.2400**		**6,981.9673**

3.4 Grading - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1016	0.0628	0.8280	2.2000e-003	0.2236	1.4300e-003	0.2250	0.0593	1.3200e-003	0.0606		218.8161	218.8161	6.2300e-003		218.9718
Total	**0.1016**	**0.0628**	**0.8280**	**2.2000e-003**	**0.2236**	**1.4300e-003**	**0.2250**	**0.0593**	**1.3200e-003**	**0.0606**		**218.8161**	**218.8161**	**6.2300e-003**		**218.9718**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					4.0030	0.0000	4.0030	1.4696	0.0000	1.4696			0.0000			0.0000
Off-Road	4.1848	50.2306	33.0103	0.0715		1.9904	1.9904		1.8472	1.8472	0.0000	6,925.9674	6,925.9674	2.2400		6,981.9673
Total	**4.1848**	**50.2306**	**33.0103**	**0.0715**	**4.0030**	**1.9904**	**5.9934**	**1.4696**	**1.8472**	**3.3168**	**0.0000**	**6,925.9674**	**6,925.9674**	**2.2400**		**6,981.9673**

3.4 Grading - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1016	0.0628	0.8280	2.2000e-003	0.2236	1.4300e-003	0.2250	0.0593	1.3200e-003	0.0606		218.8161	218.8161	6.2300e-003		218.9718
Total	**0.1016**	**0.0628**	**0.8280**	**2.2000e-003**	**0.2236**	**1.4300e-003**	**0.2250**	**0.0593**	**1.3200e-003**	**0.0606**		**218.8161**	**218.8161**	**6.2300e-003**		**218.9718**

3.5 Building Construction - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	3.1137	33.9659	18.1952	0.0430		1.4763	1.4763		1.3775	1.3775		4,114.4297	4,114.4297	1.1209		4,142.4520
Total	**3.1137**	**33.9659**	**18.1952**	**0.0430**		**1.4763**	**1.4763**		**1.3775**	**1.3775**		**4,114.4297**	**4,114.4297**	**1.1209**		**4,142.4520**

3.5 Building Construction - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.6211	23.1450	4.3551	0.0647	1.5371	0.0397	1.5768	0.4426	0.0380	0.4805		6,830.1434	6,830.1434	0.4316		6,840.9342
Worker	3.1248	1.9315	25.4600	0.0676	6.8743	0.0440	6.9182	1.8231	0.0405	1.8636		6,728.5952	6,728.5952	0.1915		6,733.3828
Total	**3.7459**	**25.0765**	**29.8151**	**0.1323**	**8.4114**	**0.0837**	**8.4950**	**2.2657**	**0.0784**	**2.3441**		**13,558.7386**	**13,558.7386**	**0.6231**		**13,574.3170**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.6412	29.6918	20.4988	0.0430		1.3170	1.3170		1.2459	1.2459	0.0000	4,114.4297	4,114.4297	1.1209		4,142.4520
Total	**2.6412**	**29.6918**	**20.4988**	**0.0430**		**1.3170**	**1.3170**		**1.2459**	**1.2459**	**0.0000**	**4,114.4297**	**4,114.4297**	**1.1209**		**4,142.4520**

3.5 Building Construction - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.6211	23.1450	4.3551	0.0647	1.5371	0.0397	1.5768	0.4426	0.0380	0.4805		6,830.1434	6,830.1434	0.4316		6,840.9342
Worker	3.1248	1.9315	25.4600	0.0676	6.8743	0.0440	6.9182	1.8231	0.0405	1.8636		6,728.5952	6,728.5952	0.1915		6,733.3828
Total	**3.7459**	**25.0765**	**29.8151**	**0.1323**	**8.4114**	**0.0837**	**8.4950**	**2.2657**	**0.0784**	**2.3441**		**13,558.7386**	**13,558.7386**	**0.6231**		**13,574.3170**

3.5 Building Construction - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.7963	29.7637	17.6698	0.0430		1.2743	1.2743		1.1892	1.1892		4,110.5322	4,110.5322	1.1153		4,138.4135
Total	**2.7963**	**29.7637**	**17.6698**	**0.0430**		**1.2743**	**1.2743**		**1.1892**	**1.1892**		**4,110.5322**	**4,110.5322**	**1.1153**		**4,138.4135**

3.5 Building Construction - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.5786	21.9509	4.0266	0.0642	1.5371	0.0333	1.5704	0.4426	0.0319	0.4745		6,775.3820	6,775.3820	0.4167		6,785.7993
Worker	2.9181	1.7366	23.3888	0.0651	6.8743	0.0427	6.9169	1.8231	0.0393	1.8624		6,485.8049	6,485.8049	0.1718		6,490.0992
Total	**3.4967**	**23.6875**	**27.4154**	**0.1293**	**8.4114**	**0.0760**	**8.4874**	**2.2657**	**0.0712**	**2.3368**		**13,261.1869**	**13,261.1869**	**0.5885**		**13,275.8985**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.4016	26.7570	20.1322	0.0430		1.1618	1.1618		1.1007	1.1007	0.0000	4,110.5322	4,110.5322	1.1153		4,138.4135
Total	**2.4016**	**26.7570**	**20.1322**	**0.0430**		**1.1618**	**1.1618**		**1.1007**	**1.1007**	**0.0000**	**4,110.5322**	**4,110.5322**	**1.1153**		**4,138.4135**

3.5 Building Construction - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.5786	21.9509	4.0266	0.0642	1.5371	0.0333	1.5704	0.4426	0.0319	0.4745		6,775.3820	6,775.3820	0.4167		6,785.7993
Worker	2.9181	1.7366	23.3888	0.0651	6.8743	0.0427	6.9169	1.8231	0.0393	1.8624		6,485.8049	6,485.8049	0.1718		6,490.0992
Total	**3.4967**	**23.6875**	**27.4154**	**0.1293**	**8.4114**	**0.0760**	**8.4874**	**2.2657**	**0.0712**	**2.3368**		**13,261.1869**	**13,261.1869**	**0.5885**		**13,275.8985**

3.6 Architectural Coating - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	52.7739					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2727	1.8780	2.4181	3.9600e-003		0.1090	0.1090		0.1090	0.1090		375.2641	375.2641	0.0244		375.8749
Total	**53.0466**	**1.8780**	**2.4181**	**3.9600e-003**		**0.1090**	**0.1090**		**0.1090**	**0.1090**		**375.2641**	**375.2641**	**0.0244**		**375.8749**

3.6 Architectural Coating - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.5836	0.3473	4.6778	0.0130	1.3749	8.5400e-003	1.3834	0.3646	7.8600e-003	0.3725		1,297.1610	1,297.1610	0.0344		1,298.0198
Total	**0.5836**	**0.3473**	**4.6778**	**0.0130**	**1.3749**	**8.5400e-003**	**1.3834**	**0.3646**	**7.8600e-003**	**0.3725**		**1,297.1610**	**1,297.1610**	**0.0344**		**1,298.0198**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	52.7739					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2727	1.8780	2.4181	3.9600e-003		0.1090	0.1090		0.1090	0.1090	0.0000	375.2641	375.2641	0.0244		375.8749
Total	**53.0466**	**1.8780**	**2.4181**	**3.9600e-003**		**0.1090**	**0.1090**		**0.1090**	**0.1090**	**0.0000**	**375.2641**	**375.2641**	**0.0244**		**375.8749**

3.6 Architectural Coating - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.5836	0.3473	4.6778	0.0130	1.3749	8.5400e-003	1.3834	0.3646	7.8600e-003	0.3725		1,297.1610	1,297.1610	0.0344		1,298.0198
Total	**0.5836**	**0.3473**	**4.6778**	**0.0130**	**1.3749**	**8.5400e-003**	**1.3834**	**0.3646**	**7.8600e-003**	**0.3725**		**1,297.1610**	**1,297.1610**	**0.0344**		**1,298.0198**

3.7 Paving - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.1028	11.1249	14.5805	0.0228		0.5679	0.5679		0.5225	0.5225		2,207.6603	2,207.6603	0.7140		2,225.5104
Paving	0.9926					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**2.0954**	**11.1249**	**14.5805**	**0.0228**		**0.5679**	**0.5679**		**0.5225**	**0.5225**		**2,207.6603**	**2,207.6603**	**0.7140**		**2,225.5104**

3.7 Paving - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0712	0.0424	0.5705	1.5900e-003	0.1677	1.0400e-003	0.1687	0.0445	9.6000e-004	0.0454		158.1904	158.1904	4.1900e-003		158.2951
Total	**0.0712**	**0.0424**	**0.5705**	**1.5900e-003**	**0.1677**	**1.0400e-003**	**0.1687**	**0.0445**	**9.6000e-004**	**0.0454**		**158.1904**	**158.1904**	**4.1900e-003**		**158.2951**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.1028	11.1249	14.5805	0.0228		0.5679	0.5679		0.5225	0.5225	0.0000	2,207.6603	2,207.6603	0.7140		2,225.5104
Paving	0.9926					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**2.0954**	**11.1249**	**14.5805**	**0.0228**		**0.5679**	**0.5679**		**0.5225**	**0.5225**	**0.0000**	**2,207.6603**	**2,207.6603**	**0.7140**		**2,225.5104**

3.7 Paving - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0712	0.0424	0.5705	1.5900e-003	0.1677	1.0400e-003	0.1687	0.0445	9.6000e-004	0.0454		158.1904	158.1904	4.1900e-003		158.2951
Total	**0.0712**	**0.0424**	**0.5705**	**1.5900e-003**	**0.1677**	**1.0400e-003**	**0.1687**	**0.0445**	**9.6000e-004**	**0.0454**		**158.1904**	**158.1904**	**4.1900e-003**		**158.2951**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Other Asphalt Surfaces	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Unrefrigerated Warehouse-No Rail	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0
Other Non-Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0
Unrefrigerated Warehouse-No	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Other Asphalt Surfaces	0.553113	0.036408	0.180286	0.116335	0.016165	0.005101	0.018218	0.063797	0.001357	0.001565	0.005903	0.000808	0.000944
Other Non-Asphalt Surfaces	0.553113	0.036408	0.180286	0.116335	0.016165	0.005101	0.018218	0.063797	0.001357	0.001565	0.005903	0.000808	0.000944
Parking Lot	0.553113	0.036408	0.180286	0.116335	0.016165	0.005101	0.018218	0.063797	0.001357	0.001565	0.005903	0.000808	0.000944
Unrefrigerated Warehouse-No Rail	0.553113	0.036408	0.180286	0.116335	0.016165	0.005101	0.018218	0.063797	0.001357	0.001565	0.005903	0.000808	0.000944

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
NaturalGas Unmitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	17.1751	1.5900e-003	0.1746	1.0000e-005		6.2000e-004	6.2000e-004		6.2000e-004	6.2000e-004		0.3736	0.3736	9.9000e-004		0.3982
Unmitigated	17.1751	1.5900e-003	0.1746	1.0000e-005		6.2000e-004	6.2000e-004		6.2000e-004	6.2000e-004		0.3736	0.3736	9.9000e-004		0.3982

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	1.9701					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	15.1888					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0162	1.5900e-003	0.1746	1.0000e-005		6.2000e-004	6.2000e-004		6.2000e-004	6.2000e-004		0.3736	0.3736	9.9000e-004		0.3982
Total	**17.1751**	**1.5900e-003**	**0.1746**	**1.0000e-005**		**6.2000e-004**	**6.2000e-004**		**6.2000e-004**	**6.2000e-004**		**0.3736**	**0.3736**	**9.9000e-004**		**0.3982**

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	1.9701					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	15.1888					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0162	1.5900e-003	0.1746	1.0000e-005		6.2000e-004	6.2000e-004		6.2000e-004	6.2000e-004		0.3736	0.3736	9.9000e-004		0.3982
Total	**17.1751**	**1.5900e-003**	**0.1746**	**1.0000e-005**		**6.2000e-004**	**6.2000e-004**		**6.2000e-004**	**6.2000e-004**		**0.3736**	**0.3736**	**9.9000e-004**		**0.3982**

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

Fontana Foothills Commerce Center (Construction - Mitigated)

San Bernardino-South Coast County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Unrefrigerated Warehouse-No Rail	754.41	1000sqft	17.32	754,408.00	0
Other Asphalt Surfaces	415.94	1000sqft	9.55	415,944.00	0
Other Non-Asphalt Surfaces	132.59	1000sqft	3.04	132,592.00	0
Parking Lot	404.00	Space	3.71	161,600.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	32
Climate Zone	10			**Operational Year**	2022
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	702.44	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Fontana Foothills Commerce Center (Construction - Mitigated) - San Bernardino-South Coast County, Winter

Project Characteristics -

Land Use - Unrefrigerated Warehouse - No Rail = High-Cube Short-Term Warehouse; Parking Lot = 404 Standard Spaces; Other Non-Asphalt Surfaces = Landscape area; Other Asphalt Surfaces = Balance

Construction Phase - Construction Schedule adjusted per information provided by the Project Applicant.

Off-road Equipment - Hours are based on an 8-hour workday.

Off-road Equipment - Crawler Tractors used in lieu of Tractors/Loaders/Backhoes.

Off-road Equipment - Crawler Tractors used in lieu of Tractors/Loaders/Backhoes.

Off-road Equipment -

Off-road Equipment - Crawler Tractors used in lieu of Tractors/Loaders/Backhoes.

Demolition -

Grading - For purposes of analysis, total acres graded per day is based on the equipment specific grading rates (CalEEMod Appendix A) and the equipment list.

Architectural Coating - Rule 1113

Vehicle Trips - Construction Run Only.

Energy Use - Construction Run Only.

Water And Wastewater - Construction Run Only.

Solid Waste - Construction Run Only.

Construction Off-road Equipment Mitigation - All equipment operating at >150 HP during site preparation activities will be equipped with Tier 3 or better engines.

Vehicle Emission Factors - EMFAC2017

Vehicle Emission Factors - EMFAC2017

Vehicle Emission Factors - EMFAC2017

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	100.00	50.00
tblArchitecturalCoating	EF_Nonresidential_Interior	100.00	50.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3

tblConstructionPhase	NumDays	500.00	180.00
tblConstructionPhase	NumDays	35.00	70.00
tblEnergyUse	LightingElect	0.35	0.00
tblEnergyUse	LightingElect	1.17	0.00
tblEnergyUse	NT24E	0.82	0.00
tblEnergyUse	NT24NG	0.03	0.00
tblEnergyUse	T24E	0.37	0.00
tblEnergyUse	T24NG	2.00	0.00
tblGrading	AcresOfGrading	157.50	180.00
tblGrading	AcresOfGrading	40.00	70.00
tblLandUse	LotAcreage	3.64	3.71
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblSolidWaste	SolidWasteGenerationRate	709.15	0.00
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tblVehicleEF	HHD	0.04	0.06
tblVehicleEF	HHD	0.10	0.00
tblVehicleEF	HHD	3.29	8.22
tblVehicleEF	HHD	0.57	0.40
tblVehicleEF	HHD	1.82	2.2600e-003
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tblVehicleEF	HHD	1,475.79	1,372.23
tblVehicleEF	HHD	5.54	0.02

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tblVehicleEF	HHD	2.50	2.77
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tblVehicleEF	HHD	0.01	0.03
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tblVehicleEF	HHD	0.01	0.03
tblVehicleEF	HHD	4.7000e-005	1.0000e-006
tblVehicleEF	HHD	8.5000e-005	3.0000e-006
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tblVehicleEF	HHD	5.2000e-005	2.0000e-006
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tblVehicleEF	HHD	0.05	1.0000e-006
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tblVehicleEF	HHD	0.01	0.01
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tblVehicleEF	HHD	8.5000e-005	3.0000e-006
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tblVehicleEF	HHD	1.1700e-004	5.0000e-006

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tblVehicleEF	HHD	0.04	0.04

tblVehicleEF	HHD	0.01	0.03
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tblVehicleEF	HHD	8.5000e-005	4.0000e-006
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tblVehicleEF	HHD	2.3300e-004	5.4600e-004
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tblVehicleEF	HHD	0.01	0.01
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tblVehicleEF	LDA	0.10	0.10
tblVehicleEF	LDA	0.03	0.05
tblVehicleEF	LDA	0.02	0.01
tblVehicleEF	LDA	0.03	0.21
tblVehicleEF	LDA	0.08	0.25
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tblVehicleEF	LDA	0.12	0.12
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tblVehicleEF	LDA	0.03	0.21
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tblVehicleEF	LDA	0.12	0.12
tblVehicleEF	LDA	0.07	0.10
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tblVehicleEF	LDA	0.03	0.05
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tblVehicleEF	LDA	0.03	0.05
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tblVehicleEF	LDT1	2.4910e-003	2.0190e-003
tblVehicleEF	LDT1	3.3960e-003	2.6220e-003
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tblVehicleEF	LDT1	0.13	0.13
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tblVehicleEF	LDT1	0.20	0.88
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tblVehicleEF	LDT1	0.33	0.26
tblVehicleEF	LDT1	0.13	0.13
tblVehicleEF	LDT1	0.05	0.05
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tblVehicleEF	LDT1	3.3960e-003	2.6220e-003

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tblVehicleEF	LDT1	0.06	0.05
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tblVehicleEF	LDT1	0.15	0.12
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tblVehicleEF	LDT1	3.3960e-003	2.6220e-003
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tblVehicleEF	LDT1	0.23	1.03
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tblVehicleEF	LDT1	0.39	0.30
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tblVehicleEF	LDT2	0.13	0.15
tblVehicleEF	LDT2	0.05	0.08
tblVehicleEF	LDT2	0.02	0.02

tblVehicleEF	LDT2	0.07	0.48
tblVehicleEF	LDT2	0.11	0.35
tblVehicleEF	LDT2	3.5180e-003	3.2800e-003
tblVehicleEF	LDT2	8.2200e-004	6.9600e-004
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tblVehicleEF	LDT2	0.13	0.15
tblVehicleEF	LDT2	0.05	0.08
tblVehicleEF	LDT2	0.02	0.03
tblVehicleEF	LDT2	0.07	0.48
tblVehicleEF	LDT2	0.12	0.38
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tblVehicleEF	LDT2	6.8290e-003	0.06
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tblVehicleEF	LDT2	0.11	0.18
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.07	0.48
tblVehicleEF	LDT2	0.09	0.29

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tblVehicleEF	LDT2	0.11	0.18
tblVehicleEF	LDT2	0.03	0.03
tblVehicleEF	LDT2	0.07	0.48
tblVehicleEF	LDT2	0.10	0.32
tblVehicleEF	LDT2	6.1560e-003	4.1770e-003
tblVehicleEF	LDT2	8.1410e-003	0.07
tblVehicleEF	LDT2	0.75	0.92
tblVehicleEF	LDT2	1.64	2.74
tblVehicleEF	LDT2	343.55	325.69
tblVehicleEF	LDT2	79.39	70.22
tblVehicleEF	LDT2	0.08	0.09
tblVehicleEF	LDT2	1.7270e-003	1.5180e-003
tblVehicleEF	LDT2	2.4170e-003	1.9480e-003
tblVehicleEF	LDT2	1.5880e-003	1.3970e-003
tblVehicleEF	LDT2	2.2220e-003	1.7910e-003
tblVehicleEF	LDT2	0.06	0.10
tblVehicleEF	LDT2	0.14	0.16
tblVehicleEF	LDT2	0.05	0.08
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.08	0.56
tblVehicleEF	LDT2	0.11	0.35
tblVehicleEF	LDT2	3.4410e-003	3.2220e-003
tblVehicleEF	LDT2	8.2200e-004	6.9500e-004

tblVehicleEF	LDT2	0.06	0.10
tblVehicleEF	LDT2	0.14	0.16
tblVehicleEF	LDT2	0.05	0.08
tblVehicleEF	LDT2	0.02	0.03
tblVehicleEF	LDT2	0.08	0.56
tblVehicleEF	LDT2	0.12	0.38
tblVehicleEF	LHD1	5.2170e-003	4.8640e-003
tblVehicleEF	LHD1	0.01	6.5090e-003
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	0.14	0.17
tblVehicleEF	LHD1	1.07	0.88
tblVehicleEF	LHD1	2.60	1.03
tblVehicleEF	LHD1	9.23	9.35
tblVehicleEF	LHD1	609.20	648.62
tblVehicleEF	LHD1	30.40	10.79
tblVehicleEF	LHD1	0.09	0.08
tblVehicleEF	LHD1	2.12	1.54
tblVehicleEF	LHD1	9.6500e-004	9.5300e-004
tblVehicleEF	LHD1	0.01	9.9680e-003
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	9.5800e-004	2.6300e-004
tblVehicleEF	LHD1	9.2400e-004	9.1200e-004
tblVehicleEF	LHD1	2.5390e-003	2.4920e-003
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	8.8100e-004	2.4200e-004
tblVehicleEF	LHD1	3.7070e-003	3.1750e-003
tblVehicleEF	LHD1	0.11	0.09

tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	1.8240e-003	1.5420e-003
tblVehicleEF	LHD1	0.08	0.07
tblVehicleEF	LHD1	0.35	0.60
tblVehicleEF	LHD1	0.27	0.08
tblVehicleEF	LHD1	9.2000e-005	9.0000e-005
tblVehicleEF	LHD1	5.9760e-003	6.3130e-003
tblVehicleEF	LHD1	3.5300e-004	1.0700e-004
tblVehicleEF	LHD1	3.7070e-003	3.1750e-003
tblVehicleEF	LHD1	0.11	0.09
tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	1.8240e-003	1.5420e-003
tblVehicleEF	LHD1	0.10	0.08
tblVehicleEF	LHD1	0.35	0.60
tblVehicleEF	LHD1	0.29	0.09
tblVehicleEF	LHD1	5.2170e-003	4.8790e-003
tblVehicleEF	LHD1	0.01	6.6670e-003
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	0.14	0.17
tblVehicleEF	LHD1	1.09	0.90
tblVehicleEF	LHD1	2.43	0.97
tblVehicleEF	LHD1	9.23	9.35
tblVehicleEF	LHD1	609.20	648.66
tblVehicleEF	LHD1	30.40	10.67
tblVehicleEF	LHD1	0.09	0.08
tblVehicleEF	LHD1	1.98	1.44
tblVehicleEF	LHD1	9.6500e-004	9.5300e-004

tblVehicleEF	LHD1	0.01	9.9680e-003
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	9.5800e-004	2.6300e-004
tblVehicleEF	LHD1	9.2400e-004	9.1200e-004
tblVehicleEF	LHD1	2.5390e-003	2.4920e-003
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	8.8100e-004	2.4200e-004
tblVehicleEF	LHD1	7.3080e-003	6.2980e-003
tblVehicleEF	LHD1	0.13	0.11
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	4.1220e-003	3.5370e-003
tblVehicleEF	LHD1	0.09	0.07
tblVehicleEF	LHD1	0.36	0.60
tblVehicleEF	LHD1	0.25	0.08
tblVehicleEF	LHD1	9.2000e-005	9.0000e-005
tblVehicleEF	LHD1	5.9770e-003	6.3140e-003
tblVehicleEF	LHD1	3.5000e-004	1.0600e-004
tblVehicleEF	LHD1	7.3080e-003	6.2980e-003
tblVehicleEF	LHD1	0.13	0.11
tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	4.1220e-003	3.5370e-003
tblVehicleEF	LHD1	0.11	0.09
tblVehicleEF	LHD1	0.36	0.60
tblVehicleEF	LHD1	0.28	0.08
tblVehicleEF	LHD1	5.2170e-003	4.8670e-003
tblVehicleEF	LHD1	0.01	6.5250e-003
tblVehicleEF	LHD1	0.02	0.02

tblVehicleEF	LHD1	0.14	0.17
tblVehicleEF	LHD1	1.07	0.89
tblVehicleEF	LHD1	2.55	1.02
tblVehicleEF	LHD1	9.23	9.35
tblVehicleEF	LHD1	609.20	648.63
tblVehicleEF	LHD1	30.40	10.76
tblVehicleEF	LHD1	0.09	0.08
tblVehicleEF	LHD1	2.08	1.51
tblVehicleEF	LHD1	9.6500e-004	9.5300e-004
tblVehicleEF	LHD1	0.01	9.9680e-003
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	9.5800e-004	2.6300e-004
tblVehicleEF	LHD1	9.2400e-004	9.1200e-004
tblVehicleEF	LHD1	2.5390e-003	2.4920e-003
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	8.8100e-004	2.4200e-004
tblVehicleEF	LHD1	4.0430e-003	3.5090e-003
tblVehicleEF	LHD1	0.13	0.10
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	1.7940e-003	1.5200e-003
tblVehicleEF	LHD1	0.08	0.07
tblVehicleEF	LHD1	0.38	0.64
tblVehicleEF	LHD1	0.26	0.08
tblVehicleEF	LHD1	9.2000e-005	9.0000e-005
tblVehicleEF	LHD1	5.9760e-003	6.3130e-003
tblVehicleEF	LHD1	3.5200e-004	1.0600e-004
tblVehicleEF	LHD1	4.0430e-003	3.5090e-003

tblVehicleEF	LHD1	0.13	0.10
tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	1.7940e-003	1.5200e-003
tblVehicleEF	LHD1	0.10	0.08
tblVehicleEF	LHD1	0.38	0.64
tblVehicleEF	LHD1	0.29	0.09
tblVehicleEF	LHD2	3.5950e-003	3.3090e-003
tblVehicleEF	LHD2	4.6110e-003	4.1580e-003
tblVehicleEF	LHD2	8.1370e-003	9.5080e-003
tblVehicleEF	LHD2	0.12	0.14
tblVehicleEF	LHD2	0.50	0.56
tblVehicleEF	LHD2	1.20	0.61
tblVehicleEF	LHD2	14.27	14.55
tblVehicleEF	LHD2	608.52	648.96
tblVehicleEF	LHD2	24.46	7.78
tblVehicleEF	LHD2	0.11	0.11
tblVehicleEF	LHD2	1.49	1.65
tblVehicleEF	LHD2	1.2830e-003	1.4030e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	4.0000e-004	1.2600e-004
tblVehicleEF	LHD2	1.2280e-003	1.3430e-003
tblVehicleEF	LHD2	2.6860e-003	2.6930e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	3.6800e-004	1.1600e-004
tblVehicleEF	LHD2	1.3070e-003	1.5580e-003
tblVehicleEF	LHD2	0.04	0.05

tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	7.0300e-004	8.0000e-004
tblVehicleEF	LHD2	0.06	0.06
tblVehicleEF	LHD2	0.09	0.29
tblVehicleEF	LHD2	0.11	0.05
tblVehicleEF	LHD2	5.9200e-003	6.2610e-003
tblVehicleEF	LHD2	2.6700e-004	7.7000e-005
tblVehicleEF	LHD2	1.3070e-003	1.5580e-003
tblVehicleEF	LHD2	0.04	0.05
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	7.0300e-004	8.0000e-004
tblVehicleEF	LHD2	0.07	0.07
tblVehicleEF	LHD2	0.09	0.29
tblVehicleEF	LHD2	0.12	0.05
tblVehicleEF	LHD2	3.5950e-003	3.3190e-003
tblVehicleEF	LHD2	4.6760e-003	4.2030e-003
tblVehicleEF	LHD2	7.7630e-003	9.0810e-003
tblVehicleEF	LHD2	0.12	0.14
tblVehicleEF	LHD2	0.50	0.56
tblVehicleEF	LHD2	1.13	0.57
tblVehicleEF	LHD2	14.27	14.55
tblVehicleEF	LHD2	608.52	648.97
tblVehicleEF	LHD2	24.46	7.71
tblVehicleEF	LHD2	0.11	0.11
tblVehicleEF	LHD2	1.40	1.55
tblVehicleEF	LHD2	1.2830e-003	1.4030e-003
tblVehicleEF	LHD2	0.01	0.01

tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	4.0000e-004	1.2600e-004
tblVehicleEF	LHD2	1.2280e-003	1.3430e-003
tblVehicleEF	LHD2	2.6860e-003	2.6930e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	3.6800e-004	1.1600e-004
tblVehicleEF	LHD2	2.5220e-003	3.0280e-003
tblVehicleEF	LHD2	0.04	0.06
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	1.5220e-003	1.7650e-003
tblVehicleEF	LHD2	0.06	0.06
tblVehicleEF	LHD2	0.09	0.29
tblVehicleEF	LHD2	0.10	0.04
tblVehicleEF	LHD2	5.9200e-003	6.2610e-003
tblVehicleEF	LHD2	2.6500e-004	7.6000e-005
tblVehicleEF	LHD2	2.5220e-003	3.0280e-003
tblVehicleEF	LHD2	0.04	0.06
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	1.5220e-003	1.7650e-003
tblVehicleEF	LHD2	0.07	0.07
tblVehicleEF	LHD2	0.09	0.29
tblVehicleEF	LHD2	0.11	0.05
tblVehicleEF	LHD2	3.5950e-003	3.3110e-003
tblVehicleEF	LHD2	4.6180e-003	4.1630e-003
tblVehicleEF	LHD2	8.0640e-003	9.4270e-003
tblVehicleEF	LHD2	0.12	0.14
tblVehicleEF	LHD2	0.50	0.56

tblVehicleEF	LHD2	1.19	0.60
tblVehicleEF	LHD2	14.27	14.55
tblVehicleEF	LHD2	608.52	648.96
tblVehicleEF	LHD2	24.46	7.77
tblVehicleEF	LHD2	0.11	0.11
tblVehicleEF	LHD2	1.46	1.62
tblVehicleEF	LHD2	1.2830e-003	1.4030e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	4.0000e-004	1.2600e-004
tblVehicleEF	LHD2	1.2280e-003	1.3430e-003
tblVehicleEF	LHD2	2.6860e-003	2.6930e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	3.6800e-004	1.1600e-004
tblVehicleEF	LHD2	1.3460e-003	1.6400e-003
tblVehicleEF	LHD2	0.04	0.05
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	6.8700e-004	7.8100e-004
tblVehicleEF	LHD2	0.06	0.06
tblVehicleEF	LHD2	0.10	0.31
tblVehicleEF	LHD2	0.11	0.05
tblVehicleEF	LHD2	5.9200e-003	6.2610e-003
tblVehicleEF	LHD2	2.6600e-004	7.7000e-005
tblVehicleEF	LHD2	1.3460e-003	1.6400e-003
tblVehicleEF	LHD2	0.04	0.05
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	6.8700e-004	7.8100e-004

tblVehicleEF	LHD2	0.07	0.07
tblVehicleEF	LHD2	0.10	0.31
tblVehicleEF	LHD2	0.12	0.05
tblVehicleEF	MCY	0.43	0.33
tblVehicleEF	MCY	0.16	0.25
tblVehicleEF	MCY	20.55	20.74
tblVehicleEF	MCY	9.93	8.78
tblVehicleEF	MCY	167.73	210.98
tblVehicleEF	MCY	46.45	61.55
tblVehicleEF	MCY	1.16	1.17
tblVehicleEF	MCY	1.8610e-003	1.8280e-003
tblVehicleEF	MCY	3.6730e-003	3.0520e-003
tblVehicleEF	MCY	1.7420e-003	1.7110e-003
tblVehicleEF	MCY	3.4650e-003	2.8770e-003
tblVehicleEF	MCY	1.45	1.44
tblVehicleEF	MCY	0.84	0.84
tblVehicleEF	MCY	0.80	0.80
tblVehicleEF	MCY	2.23	2.23
tblVehicleEF	MCY	0.49	2.04
tblVehicleEF	MCY	2.16	1.90
tblVehicleEF	MCY	2.0770e-003	2.0880e-003
tblVehicleEF	MCY	6.9000e-004	6.0900e-004
tblVehicleEF	MCY	1.45	1.44
tblVehicleEF	MCY	0.84	0.84
tblVehicleEF	MCY	0.80	0.80
tblVehicleEF	MCY	2.74	2.74
tblVehicleEF	MCY	0.49	2.04

tblVehicleEF	MCY	2.35	2.07
tblVehicleEF	MCY	0.42	0.32
tblVehicleEF	MCY	0.14	0.22
tblVehicleEF	MCY	20.68	20.87
tblVehicleEF	MCY	9.05	7.97
tblVehicleEF	MCY	167.73	210.98
tblVehicleEF	MCY	46.45	59.35
tblVehicleEF	MCY	0.99	0.99
tblVehicleEF	MCY	1.8610e-003	1.8280e-003
tblVehicleEF	MCY	3.6730e-003	3.0520e-003
tblVehicleEF	MCY	1.7420e-003	1.7110e-003
tblVehicleEF	MCY	3.4650e-003	2.8770e-003
tblVehicleEF	MCY	3.14	3.14
tblVehicleEF	MCY	1.27	1.28
tblVehicleEF	MCY	2.13	2.12
tblVehicleEF	MCY	2.17	2.17
tblVehicleEF	MCY	0.49	2.03
tblVehicleEF	MCY	1.86	1.63
tblVehicleEF	MCY	2.0770e-003	2.0880e-003
tblVehicleEF	MCY	6.6700e-004	5.8700e-004
tblVehicleEF	MCY	3.14	3.14
tblVehicleEF	MCY	1.27	1.28
tblVehicleEF	MCY	2.13	2.12
tblVehicleEF	MCY	2.67	2.67
tblVehicleEF	MCY	0.49	2.03
tblVehicleEF	MCY	2.02	1.77
tblVehicleEF	MCY	0.42	0.32

tblVehicleEF	MCY	0.15	0.24
tblVehicleEF	MCY	19.63	19.79
tblVehicleEF	MCY	9.55	8.43
tblVehicleEF	MCY	167.73	209.35
tblVehicleEF	MCY	46.45	60.75
tblVehicleEF	MCY	1.12	1.12
tblVehicleEF	MCY	1.8610e-003	1.8280e-003
tblVehicleEF	MCY	3.6730e-003	3.0520e-003
tblVehicleEF	MCY	1.7420e-003	1.7110e-003
tblVehicleEF	MCY	3.4650e-003	2.8770e-003
tblVehicleEF	MCY	1.71	1.70
tblVehicleEF	MCY	1.13	1.12
tblVehicleEF	MCY	0.72	0.71
tblVehicleEF	MCY	2.19	2.20
tblVehicleEF	MCY	0.56	2.32
tblVehicleEF	MCY	2.08	1.83
tblVehicleEF	MCY	2.0610e-003	2.0720e-003
tblVehicleEF	MCY	6.8200e-004	6.0100e-004
tblVehicleEF	MCY	1.71	1.70
tblVehicleEF	MCY	1.13	1.12
tblVehicleEF	MCY	0.72	0.71
tblVehicleEF	MCY	2.69	2.69
tblVehicleEF	MCY	0.56	2.32
tblVehicleEF	MCY	2.27	1.99
tblVehicleEF	MDV	0.01	5.5560e-003
tblVehicleEF	MDV	0.02	0.09
tblVehicleEF	MDV	1.35	1.14

tblVehicleEF	MDV	3.25	3.33
tblVehicleEF	MDV	483.94	412.02
tblVehicleEF	MDV	107.92	87.05
tblVehicleEF	MDV	0.17	0.12
tblVehicleEF	MDV	1.8260e-003	1.6290e-003
tblVehicleEF	MDV	2.5170e-003	2.0560e-003
tblVehicleEF	MDV	1.6830e-003	1.5030e-003
tblVehicleEF	MDV	2.3150e-003	1.8910e-003
tblVehicleEF	MDV	0.10	0.12
tblVehicleEF	MDV	0.20	0.17
tblVehicleEF	MDV	0.08	0.10
tblVehicleEF	MDV	0.03	0.02
tblVehicleEF	MDV	0.11	0.52
tblVehicleEF	MDV	0.25	0.45
tblVehicleEF	MDV	4.8500e-003	4.0740e-003
tblVehicleEF	MDV	1.1370e-003	8.6100e-004
tblVehicleEF	MDV	0.10	0.12
tblVehicleEF	MDV	0.20	0.17
tblVehicleEF	MDV	0.08	0.10
tblVehicleEF	MDV	0.05	0.03
tblVehicleEF	MDV	0.11	0.52
tblVehicleEF	MDV	0.28	0.50
tblVehicleEF	MDV	0.01	6.3580e-003
tblVehicleEF	MDV	0.02	0.08
tblVehicleEF	MDV	1.64	1.38
tblVehicleEF	MDV	2.69	2.75
tblVehicleEF	MDV	526.85	437.99

tblVehicleEF	MDV	107.92	85.88
tblVehicleEF	MDV	0.16	0.11
tblVehicleEF	MDV	1.8260e-003	1.6290e-003
tblVehicleEF	MDV	2.5170e-003	2.0560e-003
tblVehicleEF	MDV	1.6830e-003	1.5030e-003
tblVehicleEF	MDV	2.3150e-003	1.8910e-003
tblVehicleEF	MDV	0.20	0.24
tblVehicleEF	MDV	0.23	0.20
tblVehicleEF	MDV	0.17	0.21
tblVehicleEF	MDV	0.04	0.03
tblVehicleEF	MDV	0.11	0.52
tblVehicleEF	MDV	0.21	0.38
tblVehicleEF	MDV	5.2830e-003	4.3310e-003
tblVehicleEF	MDV	1.1260e-003	8.5000e-004
tblVehicleEF	MDV	0.20	0.24
tblVehicleEF	MDV	0.23	0.20
tblVehicleEF	MDV	0.17	0.21
tblVehicleEF	MDV	0.05	0.04
tblVehicleEF	MDV	0.11	0.52
tblVehicleEF	MDV	0.23	0.42
tblVehicleEF	MDV	0.01	5.4100e-003
tblVehicleEF	MDV	0.02	0.09
tblVehicleEF	MDV	1.28	1.08
tblVehicleEF	MDV	3.20	3.28
tblVehicleEF	MDV	473.93	405.86
tblVehicleEF	MDV	107.92	86.95
tblVehicleEF	MDV	0.16	0.11

tblVehicleEF	MDV	1.8260e-003	1.6290e-003
tblVehicleEF	MDV	2.5170e-003	2.0560e-003
tblVehicleEF	MDV	1.6830e-003	1.5030e-003
tblVehicleEF	MDV	2.3150e-003	1.8910e-003
tblVehicleEF	MDV	0.10	0.11
tblVehicleEF	MDV	0.22	0.19
tblVehicleEF	MDV	0.08	0.10
tblVehicleEF	MDV	0.03	0.02
tblVehicleEF	MDV	0.13	0.60
tblVehicleEF	MDV	0.25	0.45
tblVehicleEF	MDV	4.7490e-003	4.0130e-003
tblVehicleEF	MDV	1.1360e-003	8.6000e-004
tblVehicleEF	MDV	0.10	0.11
tblVehicleEF	MDV	0.22	0.19
tblVehicleEF	MDV	0.08	0.10
tblVehicleEF	MDV	0.04	0.03
tblVehicleEF	MDV	0.13	0.60
tblVehicleEF	MDV	0.27	0.49
tblVehicleEF	MH	0.04	3.7970e-003
tblVehicleEF	MH	0.03	0.00
tblVehicleEF	MH	3.07	0.36
tblVehicleEF	MH	6.43	0.00
tblVehicleEF	MH	1,045.05	951.23
tblVehicleEF	MH	59.49	0.00
tblVehicleEF	MH	1.54	4.54
tblVehicleEF	MH	0.01	0.02
tblVehicleEF	MH	0.04	0.14

tblVehicleEF	MH	1.1740e-003	0.00
tblVehicleEF	MH	3.2230e-003	4.0000e-003
tblVehicleEF	MH	0.04	0.14
tblVehicleEF	MH	1.0790e-003	0.00
tblVehicleEF	MH	1.47	0.00
tblVehicleEF	MH	0.09	0.00
tblVehicleEF	MH	0.51	0.00
tblVehicleEF	MH	0.10	0.08
tblVehicleEF	MH	0.03	0.00
tblVehicleEF	MH	0.37	0.00
tblVehicleEF	MH	0.01	8.9930e-003
tblVehicleEF	MH	7.0700e-004	0.00
tblVehicleEF	MH	1.47	0.00
tblVehicleEF	MH	0.09	0.00
tblVehicleEF	MH	0.51	0.00
tblVehicleEF	MH	0.14	0.09
tblVehicleEF	MH	0.03	0.00
tblVehicleEF	MH	0.40	0.00
tblVehicleEF	MH	0.04	3.7970e-003
tblVehicleEF	MH	0.03	0.00
tblVehicleEF	MH	3.19	0.36
tblVehicleEF	MH	5.84	0.00
tblVehicleEF	MH	1,045.05	951.23
tblVehicleEF	MH	59.49	0.00
tblVehicleEF	MH	1.41	4.26
tblVehicleEF	MH	0.01	0.02
tblVehicleEF	MH	0.04	0.14

tblVehicleEF	MH	1.1740e-003	0.00
tblVehicleEF	MH	3.2230e-003	4.0000e-003
tblVehicleEF	MH	0.04	0.14
tblVehicleEF	MH	1.0790e-003	0.00
tblVehicleEF	MH	2.91	0.00
tblVehicleEF	MH	0.11	0.00
tblVehicleEF	MH	1.21	0.00
tblVehicleEF	MH	0.11	0.08
tblVehicleEF	MH	0.03	0.00
tblVehicleEF	MH	0.34	0.00
tblVehicleEF	MH	0.01	8.9930e-003
tblVehicleEF	MH	6.9700e-004	0.00
tblVehicleEF	MH	2.91	0.00
tblVehicleEF	MH	0.11	0.00
tblVehicleEF	MH	1.21	0.00
tblVehicleEF	MH	0.15	0.09
tblVehicleEF	MH	0.03	0.00
tblVehicleEF	MH	0.38	0.00
tblVehicleEF	MH	0.04	3.7970e-003
tblVehicleEF	MH	0.03	0.00
tblVehicleEF	MH	3.08	0.36
tblVehicleEF	MH	6.36	0.00
tblVehicleEF	MH	1,045.05	951.23
tblVehicleEF	MH	59.49	0.00
tblVehicleEF	MH	1.51	4.46
tblVehicleEF	MH	0.01	0.02
tblVehicleEF	MH	0.04	0.14

tblVehicleEF	MH	1.1740e-003	0.00
tblVehicleEF	MH	3.2230e-003	4.0000e-003
tblVehicleEF	MH	0.04	0.14
tblVehicleEF	MH	1.0790e-003	0.00
tblVehicleEF	MH	1.75	0.00
tblVehicleEF	MH	0.11	0.00
tblVehicleEF	MH	0.53	0.00
tblVehicleEF	MH	0.10	0.08
tblVehicleEF	MH	0.03	0.00
tblVehicleEF	MH	0.37	0.00
tblVehicleEF	MH	0.01	8.9930e-003
tblVehicleEF	MH	7.0600e-004	0.00
tblVehicleEF	MH	1.75	0.00
tblVehicleEF	MH	0.11	0.00
tblVehicleEF	MH	0.53	0.00
tblVehicleEF	MH	0.15	0.09
tblVehicleEF	MH	0.03	0.00
tblVehicleEF	MH	0.40	0.00
tblVehicleEF	MHD	0.02	3.1740e-003
tblVehicleEF	MHD	3.5160e-003	3.4880e-003
tblVehicleEF	MHD	0.05	8.5120e-003
tblVehicleEF	MHD	0.32	0.34
tblVehicleEF	MHD	0.27	0.35
tblVehicleEF	MHD	5.32	0.97
tblVehicleEF	MHD	156.91	69.07
tblVehicleEF	MHD	1,101.52	999.60
tblVehicleEF	MHD	52.43	8.24

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tblVehicleEF	MHD	0.99	1.54
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tblVehicleEF	MHD	5.0030e-003	0.03
tblVehicleEF	MHD	7.6400e-004	1.0000e-004
tblVehicleEF	MHD	3.6900e-004	1.1300e-003
tblVehicleEF	MHD	4.7830e-003	0.03
tblVehicleEF	MHD	7.0300e-004	9.2000e-005
tblVehicleEF	MHD	1.2800e-003	5.9300e-004
tblVehicleEF	MHD	0.04	0.02
tblVehicleEF	MHD	0.02	0.02
tblVehicleEF	MHD	6.5100e-004	3.0000e-004
tblVehicleEF	MHD	0.04	0.05
tblVehicleEF	MHD	0.02	0.11
tblVehicleEF	MHD	0.32	0.04
tblVehicleEF	MHD	1.5080e-003	6.5500e-004
tblVehicleEF	MHD	0.01	9.5250e-003
tblVehicleEF	MHD	6.1700e-004	8.2000e-005
tblVehicleEF	MHD	1.2800e-003	5.9300e-004
tblVehicleEF	MHD	0.04	0.02
tblVehicleEF	MHD	0.03	0.02
tblVehicleEF	MHD	6.5100e-004	3.0000e-004
tblVehicleEF	MHD	0.04	0.06
tblVehicleEF	MHD	0.02	0.11
tblVehicleEF	MHD	0.35	0.05
tblVehicleEF	MHD	0.02	3.0170e-003
tblVehicleEF	MHD	3.5800e-003	3.5290e-003

tblVehicleEF	MHD	0.05	8.1180e-003
tblVehicleEF	MHD	0.24	0.28
tblVehicleEF	MHD	0.28	0.36
tblVehicleEF	MHD	4.97	0.91
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tblVehicleEF	MHD	1,101.52	999.60
tblVehicleEF	MHD	52.43	8.13
tblVehicleEF	MHD	0.62	0.51
tblVehicleEF	MHD	0.92	1.44
tblVehicleEF	MHD	3.2500e-004	9.9900e-004
tblVehicleEF	MHD	5.0030e-003	0.03
tblVehicleEF	MHD	7.6400e-004	1.0000e-004
tblVehicleEF	MHD	3.1100e-004	9.5500e-004
tblVehicleEF	MHD	4.7830e-003	0.03
tblVehicleEF	MHD	7.0300e-004	9.2000e-005
tblVehicleEF	MHD	2.5300e-003	1.1740e-003
tblVehicleEF	MHD	0.05	0.02
tblVehicleEF	MHD	0.02	0.02
tblVehicleEF	MHD	1.5010e-003	6.9400e-004
tblVehicleEF	MHD	0.04	0.05
tblVehicleEF	MHD	0.02	0.11
tblVehicleEF	MHD	0.30	0.04
tblVehicleEF	MHD	1.5950e-003	6.6200e-004
tblVehicleEF	MHD	0.01	9.5250e-003
tblVehicleEF	MHD	6.1100e-004	8.1000e-005
tblVehicleEF	MHD	2.5300e-003	1.1740e-003
tblVehicleEF	MHD	0.05	0.02

tblVehicleEF	MHD	0.03	0.02
tblVehicleEF	MHD	1.5010e-003	6.9400e-004
tblVehicleEF	MHD	0.04	0.06
tblVehicleEF	MHD	0.02	0.11
tblVehicleEF	MHD	0.33	0.05
tblVehicleEF	MHD	0.02	3.4070e-003
tblVehicleEF	MHD	3.5220e-003	3.4910e-003
tblVehicleEF	MHD	0.05	8.4150e-003
tblVehicleEF	MHD	0.45	0.41
tblVehicleEF	MHD	0.27	0.35
tblVehicleEF	MHD	5.23	0.96
tblVehicleEF	MHD	144.06	68.08
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tblVehicleEF	MHD	52.43	8.22
tblVehicleEF	MHD	0.57	0.51
tblVehicleEF	MHD	0.97	1.51
tblVehicleEF	MHD	4.7000e-004	1.4340e-003
tblVehicleEF	MHD	5.0030e-003	0.03
tblVehicleEF	MHD	7.6400e-004	1.0000e-004
tblVehicleEF	MHD	4.4900e-004	1.3720e-003
tblVehicleEF	MHD	4.7830e-003	0.03
tblVehicleEF	MHD	7.0300e-004	9.2000e-005
tblVehicleEF	MHD	1.3890e-003	6.4600e-004
tblVehicleEF	MHD	0.05	0.02
tblVehicleEF	MHD	0.03	0.02
tblVehicleEF	MHD	6.4000e-004	2.9500e-004
tblVehicleEF	MHD	0.04	0.05

tblVehicleEF	MHD	0.02	0.12
tblVehicleEF	MHD	0.32	0.04
tblVehicleEF	MHD	1.3860e-003	6.4600e-004
tblVehicleEF	MHD	0.01	9.5250e-003
tblVehicleEF	MHD	6.1600e-004	8.1000e-005
tblVehicleEF	MHD	1.3890e-003	6.4600e-004
tblVehicleEF	MHD	0.05	0.02
tblVehicleEF	MHD	0.04	0.02
tblVehicleEF	MHD	6.4000e-004	2.9500e-004
tblVehicleEF	MHD	0.04	0.06
tblVehicleEF	MHD	0.02	0.12
tblVehicleEF	MHD	0.35	0.05
tblVehicleEF	OBUS	0.01	9.1480e-003
tblVehicleEF	OBUS	9.9110e-003	8.5440e-003
tblVehicleEF	OBUS	0.03	0.03
tblVehicleEF	OBUS	0.26	0.48
tblVehicleEF	OBUS	0.63	0.98
tblVehicleEF	OBUS	6.27	2.73
tblVehicleEF	OBUS	70.35	66.56
tblVehicleEF	OBUS	1,121.50	1,475.42
tblVehicleEF	OBUS	70.70	21.88
tblVehicleEF	OBUS	0.28	0.29
tblVehicleEF	OBUS	0.97	1.13
tblVehicleEF	OBUS	6.4000e-005	5.0000e-004
tblVehicleEF	OBUS	4.6440e-003	0.01
tblVehicleEF	OBUS	9.2900e-004	2.3000e-004
tblVehicleEF	OBUS	6.1000e-005	4.7800e-004

tblVehicleEF	OBUS	4.4220e-003	0.01
tblVehicleEF	OBUS	8.5400e-004	2.1200e-004
tblVehicleEF	OBUS	2.1800e-003	2.7870e-003
tblVehicleEF	OBUS	0.02	0.03
tblVehicleEF	OBUS	0.04	0.05
tblVehicleEF	OBUS	9.3100e-004	1.1430e-003
tblVehicleEF	OBUS	0.04	0.06
tblVehicleEF	OBUS	0.05	0.31
tblVehicleEF	OBUS	0.38	0.13
tblVehicleEF	OBUS	6.8400e-004	6.3600e-004
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	8.1700e-004	2.1700e-004
tblVehicleEF	OBUS	2.1800e-003	2.7870e-003
tblVehicleEF	OBUS	0.02	0.03
tblVehicleEF	OBUS	0.05	0.07
tblVehicleEF	OBUS	9.3100e-004	1.1430e-003
tblVehicleEF	OBUS	0.06	0.07
tblVehicleEF	OBUS	0.05	0.31
tblVehicleEF	OBUS	0.42	0.14
tblVehicleEF	OBUS	0.01	9.2020e-003
tblVehicleEF	OBUS	0.01	8.7760e-003
tblVehicleEF	OBUS	0.03	0.02
tblVehicleEF	OBUS	0.26	0.47
tblVehicleEF	OBUS	0.65	1.01
tblVehicleEF	OBUS	5.74	2.51
tblVehicleEF	OBUS	73.50	66.43
tblVehicleEF	OBUS	1,121.50	1,475.46

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tblVehicleEF	OBUS	0.90	1.04
tblVehicleEF	OBUS	5.4000e-005	4.2500e-004
tblVehicleEF	OBUS	4.6440e-003	0.01
tblVehicleEF	OBUS	9.2900e-004	2.3000e-004
tblVehicleEF	OBUS	5.1000e-005	4.0700e-004
tblVehicleEF	OBUS	4.4220e-003	0.01
tblVehicleEF	OBUS	8.5400e-004	2.1200e-004
tblVehicleEF	OBUS	4.2350e-003	5.4310e-003
tblVehicleEF	OBUS	0.02	0.03
tblVehicleEF	OBUS	0.03	0.05
tblVehicleEF	OBUS	2.1330e-003	2.6360e-003
tblVehicleEF	OBUS	0.05	0.06
tblVehicleEF	OBUS	0.05	0.31
tblVehicleEF	OBUS	0.36	0.12
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tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	8.0800e-004	2.1300e-004
tblVehicleEF	OBUS	4.2350e-003	5.4310e-003
tblVehicleEF	OBUS	0.02	0.03
tblVehicleEF	OBUS	0.05	0.07
tblVehicleEF	OBUS	2.1330e-003	2.6360e-003
tblVehicleEF	OBUS	0.06	0.08
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tblVehicleEF	OBUS	0.40	0.14
tblVehicleEF	OBUS	0.01	9.1130e-003

tblVehicleEF	OBUS	9.9380e-003	8.5700e-003
tblVehicleEF	OBUS	0.03	0.03
tblVehicleEF	OBUS	0.28	0.49
tblVehicleEF	OBUS	0.63	0.99
tblVehicleEF	OBUS	6.22	2.71
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tblVehicleEF	OBUS	7.7000e-005	6.0400e-004
tblVehicleEF	OBUS	4.6440e-003	0.01
tblVehicleEF	OBUS	9.2900e-004	2.3000e-004
tblVehicleEF	OBUS	7.4000e-005	5.7800e-004
tblVehicleEF	OBUS	4.4220e-003	0.01
tblVehicleEF	OBUS	8.5400e-004	2.1200e-004
tblVehicleEF	OBUS	2.3200e-003	3.0070e-003
tblVehicleEF	OBUS	0.02	0.03
tblVehicleEF	OBUS	0.04	0.05
tblVehicleEF	OBUS	9.4100e-004	1.1540e-003
tblVehicleEF	OBUS	0.04	0.06
tblVehicleEF	OBUS	0.05	0.33
tblVehicleEF	OBUS	0.38	0.13
tblVehicleEF	OBUS	6.4200e-004	6.3800e-004
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	8.1600e-004	2.1600e-004
tblVehicleEF	OBUS	2.3200e-003	3.0070e-003

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tblVehicleEF	OBUS	0.05	0.06
tblVehicleEF	OBUS	9.4100e-004	1.1540e-003
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tblVehicleEF	OBUS	0.05	0.33
tblVehicleEF	OBUS	0.42	0.14
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tblVehicleEF	SBUS	0.01	6.8550e-003
tblVehicleEF	SBUS	0.07	4.0770e-003
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tblVehicleEF	SBUS	1,258.13	336.22
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tblVehicleEF	SBUS	0.01	4.0350e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.03	0.03
tblVehicleEF	SBUS	5.1700e-004	3.0000e-005
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tblVehicleEF	SBUS	2.7560e-003	2.7660e-003
tblVehicleEF	SBUS	0.03	0.03
tblVehicleEF	SBUS	4.7500e-004	2.8000e-005
tblVehicleEF	SBUS	2.9260e-003	7.3800e-004
tblVehicleEF	SBUS	0.02	5.5390e-003

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tblVehicleEF	SBUS	1.3050e-003	3.4800e-004
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tblVehicleEF	SBUS	9.3510e-003	0.04
tblVehicleEF	SBUS	0.27	0.02
tblVehicleEF	SBUS	0.01	3.1960e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	4.6300e-004	3.2000e-005
tblVehicleEF	SBUS	2.9260e-003	7.3800e-004
tblVehicleEF	SBUS	0.02	5.5390e-003
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tblVehicleEF	SBUS	0.01	3.4090e-003

tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.03	0.03
tblVehicleEF	SBUS	5.1700e-004	3.0000e-005
tblVehicleEF	SBUS	9.6490e-003	3.2620e-003
tblVehicleEF	SBUS	2.7560e-003	2.7660e-003
tblVehicleEF	SBUS	0.03	0.03
tblVehicleEF	SBUS	4.7500e-004	2.8000e-005
tblVehicleEF	SBUS	5.6170e-003	1.3280e-003
tblVehicleEF	SBUS	0.02	5.8520e-003
tblVehicleEF	SBUS	0.67	0.20
tblVehicleEF	SBUS	2.8800e-003	6.7400e-004
tblVehicleEF	SBUS	0.11	0.10
tblVehicleEF	SBUS	8.5310e-003	0.03
tblVehicleEF	SBUS	0.22	0.02
tblVehicleEF	SBUS	0.01	3.2700e-003
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tblVehicleEF	SBUS	4.3500e-004	2.9000e-005
tblVehicleEF	SBUS	5.6170e-003	1.3280e-003
tblVehicleEF	SBUS	0.02	5.8520e-003
tblVehicleEF	SBUS	0.97	0.28
tblVehicleEF	SBUS	2.8800e-003	6.7400e-004
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tblVehicleEF	SBUS	8.5310e-003	0.03
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tblVehicleEF	SBUS	0.84	0.04
tblVehicleEF	SBUS	0.01	6.8510e-003
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tblVehicleEF	SBUS	1,169.92	325.30
tblVehicleEF	SBUS	1,136.31	1,128.72
tblVehicleEF	SBUS	37.11	3.24
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tblVehicleEF	SBUS	4.69	4.99
tblVehicleEF	SBUS	0.01	4.8980e-003
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tblVehicleEF	SBUS	0.03	0.03
tblVehicleEF	SBUS	5.1700e-004	3.0000e-005
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tblVehicleEF	SBUS	2.7560e-003	2.7660e-003
tblVehicleEF	SBUS	0.03	0.03
tblVehicleEF	SBUS	4.7500e-004	2.8000e-005
tblVehicleEF	SBUS	2.9580e-003	7.2600e-004
tblVehicleEF	SBUS	0.02	5.8800e-003
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tblVehicleEF	SBUS	1.2820e-003	3.5300e-004
tblVehicleEF	SBUS	0.11	0.10
tblVehicleEF	SBUS	0.01	0.05
tblVehicleEF	SBUS	0.28	0.02
tblVehicleEF	SBUS	0.01	3.0930e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	4.6400e-004	3.2000e-005
tblVehicleEF	SBUS	2.9580e-003	7.2600e-004

tblVehicleEF	SBUS	0.02	5.8800e-003
tblVehicleEF	SBUS	0.98	0.28
tblVehicleEF	SBUS	1.2820e-003	3.5300e-004
tblVehicleEF	SBUS	0.13	0.11
tblVehicleEF	SBUS	0.01	0.05
tblVehicleEF	SBUS	0.31	0.03
tblVehicleEF	UBUS	1.83	4.19
tblVehicleEF	UBUS	0.08	0.02
tblVehicleEF	UBUS	9.26	32.67
tblVehicleEF	UBUS	14.34	1.43
tblVehicleEF	UBUS	1,846.39	1,724.94
tblVehicleEF	UBUS	136.37	16.90
tblVehicleEF	UBUS	5.87	0.37
tblVehicleEF	UBUS	0.52	0.08
tblVehicleEF	UBUS	0.01	0.03
tblVehicleEF	UBUS	0.07	2.6830e-003
tblVehicleEF	UBUS	1.4030e-003	1.8900e-004
tblVehicleEF	UBUS	0.22	0.03
tblVehicleEF	UBUS	3.0000e-003	6.3130e-003
tblVehicleEF	UBUS	0.06	2.5510e-003
tblVehicleEF	UBUS	1.2900e-003	1.7400e-004
tblVehicleEF	UBUS	8.0860e-003	1.5320e-003
tblVehicleEF	UBUS	0.11	8.4710e-003
tblVehicleEF	UBUS	3.9450e-003	6.5200e-004
tblVehicleEF	UBUS	0.61	0.06
tblVehicleEF	UBUS	0.02	0.04
tblVehicleEF	UBUS	1.15	0.06

tblVehicleEF	UBUS	0.01	3.8820e-003
tblVehicleEF	UBUS	1.6240e-003	1.6700e-004
tblVehicleEF	UBUS	8.0860e-003	1.5320e-003
tblVehicleEF	UBUS	0.11	8.4710e-003
tblVehicleEF	UBUS	3.9450e-003	6.5200e-004
tblVehicleEF	UBUS	2.50	4.28
tblVehicleEF	UBUS	0.02	0.04
tblVehicleEF	UBUS	1.25	0.07
tblVehicleEF	UBUS	1.83	4.19
tblVehicleEF	UBUS	0.08	0.01
tblVehicleEF	UBUS	9.36	32.67
tblVehicleEF	UBUS	11.74	1.17
tblVehicleEF	UBUS	1,846.39	1,724.94
tblVehicleEF	UBUS	136.37	16.47
tblVehicleEF	UBUS	5.45	0.37
tblVehicleEF	UBUS	0.52	0.08
tblVehicleEF	UBUS	0.01	0.03
tblVehicleEF	UBUS	0.07	2.6830e-003
tblVehicleEF	UBUS	1.4030e-003	1.8900e-004
tblVehicleEF	UBUS	0.22	0.03
tblVehicleEF	UBUS	3.0000e-003	6.3130e-003
tblVehicleEF	UBUS	0.06	2.5510e-003
tblVehicleEF	UBUS	1.2900e-003	1.7400e-004
tblVehicleEF	UBUS	0.02	2.9020e-003
tblVehicleEF	UBUS	0.14	0.01
tblVehicleEF	UBUS	9.3320e-003	1.4770e-003
tblVehicleEF	UBUS	0.62	0.06

tblVehicleEF	UBUS	0.02	0.04
tblVehicleEF	UBUS	1.02	0.06
tblVehicleEF	UBUS	0.01	3.8820e-003
tblVehicleEF	UBUS	1.5790e-003	1.6300e-004
tblVehicleEF	UBUS	0.02	2.9020e-003
tblVehicleEF	UBUS	0.14	0.01
tblVehicleEF	UBUS	9.3320e-003	1.4770e-003
tblVehicleEF	UBUS	2.52	4.28
tblVehicleEF	UBUS	0.02	0.04
tblVehicleEF	UBUS	1.12	0.06
tblVehicleEF	UBUS	1.83	4.19
tblVehicleEF	UBUS	0.08	0.02
tblVehicleEF	UBUS	9.27	32.67
tblVehicleEF	UBUS	13.86	1.39
tblVehicleEF	UBUS	1,846.39	1,724.94
tblVehicleEF	UBUS	136.37	16.85
tblVehicleEF	UBUS	5.76	0.37
tblVehicleEF	UBUS	0.52	0.08
tblVehicleEF	UBUS	0.01	0.03
tblVehicleEF	UBUS	0.07	2.6830e-003
tblVehicleEF	UBUS	1.4030e-003	1.8900e-004
tblVehicleEF	UBUS	0.22	0.03
tblVehicleEF	UBUS	3.0000e-003	6.3130e-003
tblVehicleEF	UBUS	0.06	2.5510e-003
tblVehicleEF	UBUS	1.2900e-003	1.7400e-004
tblVehicleEF	UBUS	9.2250e-003	1.6220e-003
tblVehicleEF	UBUS	0.14	9.7130e-003

tblVehicleEF	UBUS	4.1190e-003	6.4800e-004
tblVehicleEF	UBUS	0.61	0.06
tblVehicleEF	UBUS	0.03	0.04
tblVehicleEF	UBUS	1.13	0.06
tblVehicleEF	UBUS	0.01	3.8820e-003
tblVehicleEF	UBUS	1.6160e-003	1.6700e-004
tblVehicleEF	UBUS	9.2250e-003	1.6220e-003
tblVehicleEF	UBUS	0.14	9.7130e-003
tblVehicleEF	UBUS	4.1190e-003	6.4800e-004
tblVehicleEF	UBUS	2.50	4.28
tblVehicleEF	UBUS	0.03	0.04
tblVehicleEF	UBUS	1.24	0.07
tblVehicleTrips	CC_TL	8.40	0.00
tblVehicleTrips	CC_TL	8.40	0.00
tblVehicleTrips	CC_TL	8.40	0.00
tblVehicleTrips	CC_TL	8.40	0.00
tblVehicleTrips	CNW_TL	6.90	0.00
tblVehicleTrips	CNW_TL	6.90	0.00
tblVehicleTrips	CNW_TL	6.90	0.00
tblVehicleTrips	CNW_TL	6.90	0.00
tblVehicleTrips	CNW_TTP	41.00	0.00
tblVehicleTrips	CW_TL	16.60	0.00
tblVehicleTrips	CW_TL	16.60	0.00
tblVehicleTrips	CW_TL	16.60	0.00
tblVehicleTrips	CW_TL	16.60	0.00
tblVehicleTrips	CW_TTP	59.00	0.00
tblVehicleTrips	DV_TP	5.00	0.00

tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PR_TP	92.00	0.00
tblVehicleTrips	ST_TR	1.68	0.00
tblVehicleTrips	SU_TR	1.68	0.00
tblVehicleTrips	WD_TR	1.68	0.00
tblWater	IndoorWaterUseRate	174,457,312.50	0.00

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2021	6.9042	60.8456	44.1723	0.1659	21.9792	2.6473	24.6265	10.3848	2.4355	12.8203	0.0000	16,715.4835	16,715.4835	2.2455	0.0000	16,759.6668
2022	62.1427	66.6947	62.8475	0.2030	9.9539	2.0377	11.9916	2.6748	1.9016	4.5763	0.0000	20,328.0859	20,328.0859	2.5009	0.0000	20,390.6081
Maximum	**62.1427**	**66.6947**	**62.8475**	**0.2030**	**21.9792**	**2.6473**	**24.6265**	**10.3848**	**2.4355**	**12.8203**	**0.0000**	**20,328.0859**	**20,328.0859**	**2.5009**	**0.0000**	**20,390.6081**

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2021	6.4317	54.6219	46.4759	0.1659	8.6946	1.9918	10.5608	4.0826	1.8485	5.8379	0.0000	16,715.4835	16,715.4835	2.2455	0.0000	16,759.6668
2022	61.7481	63.6880	65.3099	0.2030	9.9539	1.9252	11.8791	2.6748	1.8130	4.4878	0.0000	20,328.0859	20,328.0859	2.5009	0.0000	20,390.6081
Maximum	**61.7481**	**63.6880**	**65.3099**	**0.2030**	**9.9539**	**1.9918**	**11.8791**	**4.0826**	**1.8485**	**5.8379**	**0.0000**	**20,328.0859**	**20,328.0859**	**2.5009**	**0.0000**	**20,390.6081**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**1.26**	**7.24**	**-4.45**	**0.00**	**41.60**	**16.39**	**38.72**	**48.26**	**15.58**	**40.65**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	17.1751	1.5900e-003	0.1746	1.0000e-005		6.2000e-004	6.2000e-004		6.2000e-004	6.2000e-004		0.3736	0.3736	9.9000e-004		0.3982
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	**17.1751**	**1.5900e-003**	**0.1746**	**1.0000e-005**	**0.0000**	**6.2000e-004**	**6.2000e-004**	**0.0000**	**6.2000e-004**	**6.2000e-004**		**0.3736**	**0.3736**	**9.9000e-004**	**0.0000**	**0.3982**

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	17.1751	1.5900e-003	0.1746	1.0000e-005		6.2000e-004	6.2000e-004		6.2000e-004	6.2000e-004		0.3736	0.3736	9.9000e-004		0.3982
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	**17.1751**	**1.5900e-003**	**0.1746**	**1.0000e-005**	**0.0000**	**6.2000e-004**	**6.2000e-004**	**0.0000**	**6.2000e-004**	**6.2000e-004**		**0.3736**	**0.3736**	**9.9000e-004**	**0.0000**	**0.3982**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	6/1/2021	7/12/2021	5	30	
2	Site Preparation	Site Preparation	7/13/2021	8/9/2021	5	20	
3	Grading	Grading	8/10/2021	10/11/2021	5	45	
4	Building Construction	Building Construction	10/12/2021	6/20/2022	5	180	
5	Architectural Coating	Architectural Coating	3/15/2022	6/20/2022	5	70	
6	Paving	Paving	5/3/2022	6/20/2022	5	35	

Acres of Grading (Site Preparation Phase): 70

Acres of Grading (Grading Phase): 180

Acres of Paving: 16.3

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 1,131,612; Non-Residential Outdoor: 377,204; Striped Parking Area: 42,608 (Architectural Coating – sqft)

OffRoad Equipment

Fontana Foothills Commerce Center (Construction - Mitigated) - San Bernardino-South Coast County, Winter

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Excavators	3	8.00	158	0.38
Demolition	Rubber Tired Dozers	2	8.00	247	0.40
Site Preparation	Crawler Tractors	4	8.00	212	0.43
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Grading	Crawler Tractors	2	8.00	212	0.43
Grading	Excavators	2	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
Grading	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Building Construction	Cranes	1	8.00	231	0.29
Building Construction	Crawler Tractors	3	8.00	212	0.43
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Architectural Coating	Air Compressors	1	8.00	78	0.48
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	6	15.00	0.00	73.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	615.00	240.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	123.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Water Exposed Area

3.2 Demolition - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.5295	0.0000	0.5295	0.0802	0.0000	0.0802			0.0000			0.0000
Off-Road	3.1651	31.4407	21.5650	0.0388		1.5513	1.5513		1.4411	1.4411		3,747.9449	3,747.9449	1.0549		3,774.3174
Total	**3.1651**	**31.4407**	**21.5650**	**0.0388**	**0.5295**	**1.5513**	**2.0808**	**0.0802**	**1.4411**	**1.5213**		**3,747.9449**	**3,747.9449**	**1.0549**		**3,774.3174**

3.2 Demolition - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0151	0.5571	0.0982	1.8400e-003	0.0426	1.5900e-003	0.0442	0.0117	1.5200e-003	0.0132		195.5338	195.5338	0.0117		195.8261
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0764	0.0496	0.5093	1.4800e-003	0.1677	1.0700e-003	0.1687	0.0445	9.9000e-004	0.0455		147.2247	147.2247	4.1000e-003		147.3271
Total	**0.0915**	**0.6067**	**0.6075**	**3.3200e-003**	**0.2102**	**2.6600e-003**	**0.2129**	**0.0561**	**2.5100e-003**	**0.0587**		**342.7585**	**342.7585**	**0.0158**		**343.1532**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.2065	0.0000	0.2065	0.0313	0.0000	0.0313			0.0000			0.0000
Off-Road	2.3279	24.5121	22.0578	0.0388		1.1722	1.1722		1.1046	1.1046	0.0000	3,747.9449	3,747.9449	1.0549		3,774.3174
Total	**2.3279**	**24.5121**	**22.0578**	**0.0388**	**0.2065**	**1.1722**	**1.3787**	**0.0313**	**1.1046**	**1.1358**	**0.0000**	**3,747.9449**	**3,747.9449**	**1.0549**		**3,774.3174**

3.2 Demolition - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0151	0.5571	0.0982	1.8400e-003	0.0426	1.5900e-003	0.0442	0.0117	1.5200e-003	0.0132		195.5338	195.5338	0.0117		195.8261
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0764	0.0496	0.5093	1.4800e-003	0.1677	1.0700e-003	0.1687	0.0445	9.9000e-004	0.0455		147.2247	147.2247	4.1000e-003		147.3271
Total	**0.0915**	**0.6067**	**0.6075**	**3.3200e-003**	**0.2102**	**2.6600e-003**	**0.2129**	**0.0561**	**2.5100e-003**	**0.0587**		**342.7585**	**342.7585**	**0.0158**		**343.1532**

3.3 Site Preparation - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					21.7780	0.0000	21.7780	10.3315	0.0000	10.3315			0.0000			0.0000
Off-Road	5.3428	60.7861	21.8537	0.0570		2.6460	2.6460		2.4343	2.4343		5,523.5047	5,523.5047	1.7864		5,568.1651
Total	**5.3428**	**60.7861**	**21.8537**	**0.0570**	**21.7780**	**2.6460**	**24.4240**	**10.3315**	**2.4343**	**12.7658**		**5,523.5047**	**5,523.5047**	**1.7864**		**5,568.1651**

3.3 Site Preparation - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0917	0.0595	0.6112	1.7700e-003	0.2012	1.2900e-003	0.2025	0.0534	1.1900e-003	0.0545		176.6696	176.6696	4.9200e-003		176.7925
Total	**0.0917**	**0.0595**	**0.6112**	**1.7700e-003**	**0.2012**	**1.2900e-003**	**0.2025**	**0.0534**	**1.1900e-003**	**0.0545**		**176.6696**	**176.6696**	**4.9200e-003**		**176.7925**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					8.4934	0.0000	8.4934	4.0293	0.0000	4.0293			0.0000			0.0000
Off-Road	3.4568	44.6943	25.6644	0.0570		1.8649	1.8649		1.7541	1.7541	0.0000	5,523.5047	5,523.5047	1.7864		5,568.1651
Total	**3.4568**	**44.6943**	**25.6644**	**0.0570**	**8.4934**	**1.8649**	**10.3584**	**4.0293**	**1.7541**	**5.7833**	**0.0000**	**5,523.5047**	**5,523.5047**	**1.7864**		**5,568.1651**

3.3 Site Preparation - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0917	0.0595	0.6112	1.7700e-003	0.2012	1.2900e-003	0.2025	0.0534	1.1900e-003	0.0545		176.6696	176.6696	4.9200e-003		176.7925
Total	**0.0917**	**0.0595**	**0.6112**	**1.7700e-003**	**0.2012**	**1.2900e-003**	**0.2025**	**0.0534**	**1.1900e-003**	**0.0545**		**176.6696**	**176.6696**	**4.9200e-003**		**176.7925**

3.4 Grading - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					10.2641	0.0000	10.2641	3.7683	0.0000	3.7683			0.0000			0.0000
Off-Road	4.9185	56.5443	31.2281	0.0715		2.2861	2.2861		2.1032	2.1032		6,925.9674	6,925.9674	2.2400		6,981.9673
Total	**4.9185**	**56.5443**	**31.2281**	**0.0715**	**10.2641**	**2.2861**	**12.5502**	**3.7683**	**2.1032**	**5.8715**		**6,925.9674**	**6,925.9674**	**2.2400**		**6,981.9673**

3.4 Grading - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1018	0.0661	0.6791	1.9700e-003	0.2236	1.4300e-003	0.2250	0.0593	1.3200e-003	0.0606		196.2995	196.2995	5.4600e-003		196.4361
Total	**0.1018**	**0.0661**	**0.6791**	**1.9700e-003**	**0.2236**	**1.4300e-003**	**0.2250**	**0.0593**	**1.3200e-003**	**0.0606**		**196.2995**	**196.2995**	**5.4600e-003**		**196.4361**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					4.0030	0.0000	4.0030	1.4696	0.0000	1.4696			0.0000			0.0000
Off-Road	4.1848	50.2306	33.0103	0.0715		1.9904	1.9904		1.8472	1.8472	0.0000	6,925.9674	6,925.9674	2.2400		6,981.9673
Total	**4.1848**	**50.2306**	**33.0103**	**0.0715**	**4.0030**	**1.9904**	**5.9934**	**1.4696**	**1.8472**	**3.3168**	**0.0000**	**6,925.9674**	**6,925.9674**	**2.2400**		**6,981.9673**

3.4 Grading - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1018	0.0661	0.6791	1.9700e-003	0.2236	1.4300e-003	0.2250	0.0593	1.3200e-003	0.0606		196.2995	196.2995	5.4600e-003		196.4361
Total	**0.1018**	**0.0661**	**0.6791**	**1.9700e-003**	**0.2236**	**1.4300e-003**	**0.2250**	**0.0593**	**1.3200e-003**	**0.0606**		**196.2995**	**196.2995**	**5.4600e-003**		**196.4361**

3.5 Building Construction - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	3.1137	33.9659	18.1952	0.0430		1.4763	1.4763		1.3775	1.3775		4,114.4297	4,114.4297	1.1209		4,142.4520
Total	**3.1137**	**33.9659**	**18.1952**	**0.0430**		**1.4763**	**1.4763**		**1.3775**	**1.3775**		**4,114.4297**	**4,114.4297**	**1.1209**		**4,142.4520**

3.5 Building Construction - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.6588	22.8986	5.0943	0.0622	1.5371	0.0408	1.5779	0.4426	0.0390	0.4816		6,564.8431	6,564.8431	0.4784		6,576.8036
Worker	3.1317	2.0315	20.8828	0.0606	6.8743	0.0440	6.9182	1.8231	0.0405	1.8636		6,036.2107	6,036.2107	0.1680		6,040.4112
Total	**3.7905**	**24.9301**	**25.9771**	**0.1228**	**8.4114**	**0.0848**	**8.4961**	**2.2657**	**0.0795**	**2.3452**		**12,601.0538**	**12,601.0538**	**0.6464**		**12,617.2148**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.6412	29.6918	20.4988	0.0430		1.3170	1.3170		1.2459	1.2459	0.0000	4,114.4297	4,114.4297	1.1209		4,142.4520
Total	**2.6412**	**29.6918**	**20.4988**	**0.0430**		**1.3170**	**1.3170**		**1.2459**	**1.2459**	**0.0000**	**4,114.4297**	**4,114.4297**	**1.1209**		**4,142.4520**

3.5 Building Construction - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.6588	22.8986	5.0943	0.0622	1.5371	0.0408	1.5779	0.4426	0.0390	0.4816		6,564.8431	6,564.8431	0.4784		6,576.8036
Worker	3.1317	2.0315	20.8828	0.0606	6.8743	0.0440	6.9182	1.8231	0.0405	1.8636		6,036.2107	6,036.2107	0.1680		6,040.4112
Total	**3.7905**	**24.9301**	**25.9771**	**0.1228**	**8.4114**	**0.0848**	**8.4961**	**2.2657**	**0.0795**	**2.3452**		**12,601.0538**	**12,601.0538**	**0.6464**		**12,617.2148**

3.5 Building Construction - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.7963	29.7637	17.6698	0.0430		1.2743	1.2743		1.1892	1.1892		4,110.5322	4,110.5322	1.1153		4,138.4135
Total	**2.7963**	**29.7637**	**17.6698**	**0.0430**		**1.2743**	**1.2743**		**1.1892**	**1.1892**		**4,110.5322**	**4,110.5322**	**1.1153**		**4,138.4135**

3.5 Building Construction - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.6145	21.6928	4.7293	0.0617	1.5371	0.0343	1.5714	0.4426	0.0328	0.4754		6,510.1501	6,510.1501	0.4626		6,521.7142
Worker	2.9320	1.8258	19.1523	0.0584	6.8743	0.0427	6.9169	1.8231	0.0393	1.8624		5,818.7978	5,818.7978	0.1508		5,822.5678
Total	**3.5465**	**23.5185**	**23.8816**	**0.1201**	**8.4114**	**0.0770**	**8.4884**	**2.2657**	**0.0721**	**2.3378**		**12,328.9479**	**12,328.9479**	**0.6134**		**12,344.2820**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.4016	26.7570	20.1322	0.0430		1.1618	1.1618		1.1007	1.1007	0.0000	4,110.5322	4,110.5322	1.1153		4,138.4135
Total	**2.4016**	**26.7570**	**20.1322**	**0.0430**		**1.1618**	**1.1618**		**1.1007**	**1.1007**	**0.0000**	**4,110.5322**	**4,110.5322**	**1.1153**		**4,138.4135**

3.5 Building Construction - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.6145	21.6928	4.7293	0.0617	1.5371	0.0343	1.5714	0.4426	0.0328	0.4754		6,510.1501	6,510.1501	0.4626		6,521.7142
Worker	2.9320	1.8258	19.1523	0.0584	6.8743	0.0427	6.9169	1.8231	0.0393	1.8624		5,818.7978	5,818.7978	0.1508		5,822.5678
Total	**3.5465**	**23.5185**	**23.8816**	**0.1201**	**8.4114**	**0.0770**	**8.4884**	**2.2657**	**0.0721**	**2.3378**		**12,328.9479**	**12,328.9479**	**0.6134**		**12,344.2820**

3.6 Architectural Coating - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	52.7739					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2727	1.8780	2.4181	3.9600e-003		0.1090	0.1090		0.1090	0.1090		375.2641	375.2641	0.0244		375.8749
Total	**53.0466**	**1.8780**	**2.4181**	**3.9600e-003**		**0.1090**	**0.1090**		**0.1090**	**0.1090**		**375.2641**	**375.2641**	**0.0244**		**375.8749**

3.6 Architectural Coating - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.5864	0.3652	3.8305	0.0117	1.3749	8.5400e-003	1.3834	0.3646	7.8600e-003	0.3725		1,163.7596	1,163.7596	0.0302		1,164.5136
Total	**0.5864**	**0.3652**	**3.8305**	**0.0117**	**1.3749**	**8.5400e-003**	**1.3834**	**0.3646**	**7.8600e-003**	**0.3725**		**1,163.7596**	**1,163.7596**	**0.0302**		**1,164.5136**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	52.7739					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2727	1.8780	2.4181	3.9600e-003		0.1090	0.1090		0.1090	0.1090	0.0000	375.2641	375.2641	0.0244		375.8749
Total	**53.0466**	**1.8780**	**2.4181**	**3.9600e-003**		**0.1090**	**0.1090**		**0.1090**	**0.1090**	**0.0000**	**375.2641**	**375.2641**	**0.0244**		**375.8749**

3.6 Architectural Coating - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.5864	0.3652	3.8305	0.0117	1.3749	8.5400e-003	1.3834	0.3646	7.8600e-003	0.3725		1,163.7596	1,163.7596	0.0302		1,164.5136
Total	**0.5864**	**0.3652**	**3.8305**	**0.0117**	**1.3749**	**8.5400e-003**	**1.3834**	**0.3646**	**7.8600e-003**	**0.3725**		**1,163.7596**	**1,163.7596**	**0.0302**		**1,164.5136**

3.7 Paving - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.1028	11.1249	14.5805	0.0228		0.5679	0.5679		0.5225	0.5225		2,207.6603	2,207.6603	0.7140		2,225.5104
Paving	0.9926					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**2.0954**	**11.1249**	**14.5805**	**0.0228**		**0.5679**	**0.5679**		**0.5225**	**0.5225**		**2,207.6603**	**2,207.6603**	**0.7140**		**2,225.5104**

3.7 Paving - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0715	0.0445	0.4671	1.4200e-003	0.1677	1.0400e-003	0.1687	0.0445	9.6000e-004	0.0454		141.9219	141.9219	3.6800e-003		142.0139
Total	**0.0715**	**0.0445**	**0.4671**	**1.4200e-003**	**0.1677**	**1.0400e-003**	**0.1687**	**0.0445**	**9.6000e-004**	**0.0454**		**141.9219**	**141.9219**	**3.6800e-003**		**142.0139**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.1028	11.1249	14.5805	0.0228		0.5679	0.5679		0.5225	0.5225	0.0000	2,207.6603	2,207.6603	0.7140		2,225.5104
Paving	0.9926					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**2.0954**	**11.1249**	**14.5805**	**0.0228**		**0.5679**	**0.5679**		**0.5225**	**0.5225**	**0.0000**	**2,207.6603**	**2,207.6603**	**0.7140**		**2,225.5104**

3.7 Paving - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0715	0.0445	0.4671	1.4200e-003	0.1677	1.0400e-003	0.1687	0.0445	9.6000e-004	0.0454		141.9219	141.9219	3.6800e-003		142.0139
Total	**0.0715**	**0.0445**	**0.4671**	**1.4200e-003**	**0.1677**	**1.0400e-003**	**0.1687**	**0.0445**	**9.6000e-004**	**0.0454**		**141.9219**	**141.9219**	**3.6800e-003**		**142.0139**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Other Asphalt Surfaces	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Unrefrigerated Warehouse-No Rail	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0
Other Non-Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0
Unrefrigerated Warehouse-No	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Other Asphalt Surfaces	0.553113	0.036408	0.180286	0.116335	0.016165	0.005101	0.018218	0.063797	0.001357	0.001565	0.005903	0.000808	0.000944
Other Non-Asphalt Surfaces	0.553113	0.036408	0.180286	0.116335	0.016165	0.005101	0.018218	0.063797	0.001357	0.001565	0.005903	0.000808	0.000944
Parking Lot	0.553113	0.036408	0.180286	0.116335	0.016165	0.005101	0.018218	0.063797	0.001357	0.001565	0.005903	0.000808	0.000944
Unrefrigerated Warehouse-No Rail	0.553113	0.036408	0.180286	0.116335	0.016165	0.005101	0.018218	0.063797	0.001357	0.001565	0.005903	0.000808	0.000944

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
NaturalGas Unmitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	17.1751	1.5900e-003	0.1746	1.0000e-005		6.2000e-004	6.2000e-004		6.2000e-004	6.2000e-004		0.3736	0.3736	9.9000e-004		0.3982
Unmitigated	17.1751	1.5900e-003	0.1746	1.0000e-005		6.2000e-004	6.2000e-004		6.2000e-004	6.2000e-004		0.3736	0.3736	9.9000e-004		0.3982

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	1.9701					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	15.1888					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0162	1.5900e-003	0.1746	1.0000e-005		6.2000e-004	6.2000e-004		6.2000e-004	6.2000e-004		0.3736	0.3736	9.9000e-004		0.3982
Total	**17.1751**	**1.5900e-003**	**0.1746**	**1.0000e-005**		**6.2000e-004**	**6.2000e-004**		**6.2000e-004**	**6.2000e-004**		**0.3736**	**0.3736**	**9.9000e-004**		**0.3982**

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	1.9701					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	15.1888					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0162	1.5900e-003	0.1746	1.0000e-005		6.2000e-004	6.2000e-004		6.2000e-004	6.2000e-004		0.3736	0.3736	9.9000e-004		0.3982
Total	**17.1751**	**1.5900e-003**	**0.1746**	**1.0000e-005**		**6.2000e-004**	**6.2000e-004**		**6.2000e-004**	**6.2000e-004**		**0.3736**	**0.3736**	**9.9000e-004**		**0.3982**

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

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APPENDIX 3.3:

CALEEMOD OPERATIONAL (PASSENGER CARS) EMISSIONS MODEL OUTPUTS

Fontana Foothill Commerce Center (Operations - Passenger Cars)

San Bernardino-South Coast County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Unrefrigerated Warehouse-No Rail	754.41	1000sqft	17.32	754,408.00	0
Other Asphalt Surfaces	415.94	1000sqft	9.55	415,944.00	0
Other Non-Asphalt Surfaces	132.59	1000sqft	3.04	132,592.00	0
Parking Lot	404.00	Space	3.71	161,600.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	32
Climate Zone	10			**Operational Year**	2022
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	702.44	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Fontana Foothill Commerce Center (Operations - Passenger Cars) - San Bernardino-South Coast County, Summer

Project Characteristics -

Land Use - Unrefrigerated Warehouse - No Rail = High-Cube Short-Term Warehouse; Parking Lot = 404 Standard Spaces; Other Non-Asphalt Surfaces = Landscape area; Other Asphalt Surfaces = Balance

Construction Phase - Operations Run Only.

Off-road Equipment - Operations Run Only.

Trips and VMT - Operations Run Only.

Vehicle Trips - Trip Characteristics based on information provided in the Fontana Foothills Commcerce Center Traffic Impact Analysis report by Urban Crossroads, Inc.

Energy Use - The Project will design building shells and building components to meet 2019 Title 24 Standards which expects 30% less energy for nonresidential uses.

Operational Off-Road Equipment - Based on SCAQMD High Cube Warehouse Truck Trip Study White Paper Summary of Busniess Survey Results (2014)

Fleet Mix - Passenger Car Fleet Mix estimated based on the ratio of the vehicle classes in CalEEMod default fleet mix.

Vehicle Emission Factors - EMFAC2017

Vehicle Emission Factors - EMFAC2017

Vehicle Emission Factors - EMFAC2017

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	30.00	0.00
tblEnergyUse	LightingElect	1.17	0.82
tblEnergyUse	T24E	0.37	0.26
tblEnergyUse	T24NG	2.00	1.40
tblFleetMix	HHD	0.06	0.00
tblFleetMix	LDA	0.55	0.62
tblFleetMix	LDT1	0.04	0.04
tblFleetMix	LDT2	0.18	0.20
tblFleetMix	LHD1	0.02	0.00
tblFleetMix	LHD2	5.1010e-003	0.00
tblFleetMix	MCY	5.9030e-003	0.00
tblFleetMix	MDV	0.12	0.13

tblFleetMix	MH	9.4400e-004	0.00
tblFleetMix	MHD	0.02	0.00
tblFleetMix	OBUS	1.3570e-003	0.00
tblFleetMix	SBUS	8.0800e-004	0.00
tblFleetMix	UBUS	1.5650e-003	0.00
tblLandUse	LotAcreage	3.64	3.71
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOperationalOffRoadEquipment	OperDaysPerYear	260.00	365.00
tblOperationalOffRoadEquipment	OperFuelType	Diesel	CNG
tblOperationalOffRoadEquipment	OperHorsePower	97.00	200.00
tblOperationalOffRoadEquipment	OperHoursPerDay	8.00	4.00
tblOperationalOffRoadEquipment	OperOffRoadEquipmentNumber	0.00	3.00
tblVehicleEF	HHD	1.21	0.03
tblVehicleEF	HHD	0.04	0.06
tblVehicleEF	HHD	0.10	0.00
tblVehicleEF	HHD	3.29	8.22
tblVehicleEF	HHD	0.57	0.40
tblVehicleEF	HHD	1.82	2.2600e-003
tblVehicleEF	HHD	6,933.41	1,478.27
tblVehicleEF	HHD	1,475.79	1,372.23
tblVehicleEF	HHD	5.54	0.02
tblVehicleEF	HHD	26.50	7.64
tblVehicleEF	HHD	2.50	2.77
tblVehicleEF	HHD	9.7780e-003	3.7640e-003
tblVehicleEF	HHD	0.06	0.06

tblVehicleEF	HHD	0.04	0.04
tblVehicleEF	HHD	0.01	0.03
tblVehicleEF	HHD	5.1000e-005	1.0000e-006
tblVehicleEF	HHD	9.3550e-003	3.6010e-003
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	8.8810e-003	8.9170e-003
tblVehicleEF	HHD	0.01	0.03
tblVehicleEF	HHD	4.7000e-005	1.0000e-006
tblVehicleEF	HHD	8.5000e-005	3.0000e-006
tblVehicleEF	HHD	3.1910e-003	1.0400e-004
tblVehicleEF	HHD	0.84	0.59
tblVehicleEF	HHD	5.2000e-005	2.0000e-006
tblVehicleEF	HHD	0.08	0.05
tblVehicleEF	HHD	2.1700e-004	5.2200e-004
tblVehicleEF	HHD	0.05	1.0000e-006
tblVehicleEF	HHD	0.07	0.01
tblVehicleEF	HHD	0.01	0.01
tblVehicleEF	HHD	8.6000e-005	0.00
tblVehicleEF	HHD	8.5000e-005	3.0000e-006
tblVehicleEF	HHD	3.1910e-003	1.0400e-004
tblVehicleEF	HHD	0.97	0.67
tblVehicleEF	HHD	5.2000e-005	2.0000e-006
tblVehicleEF	HHD	0.13	0.12
tblVehicleEF	HHD	2.1700e-004	5.2200e-004
tblVehicleEF	HHD	0.06	1.0000e-006
tblVehicleEF	HHD	1.14	0.03
tblVehicleEF	HHD	0.04	0.06

tblVehicleEF	HHD	0.09	0.00
tblVehicleEF	HHD	2.39	8.07
tblVehicleEF	HHD	0.57	0.40
tblVehicleEF	HHD	1.70	2.1220e-003
tblVehicleEF	HHD	7,345.18	1,469.16
tblVehicleEF	HHD	1,475.79	1,372.23
tblVehicleEF	HHD	5.54	0.02
tblVehicleEF	HHD	27.35	7.37
tblVehicleEF	HHD	2.36	2.60
tblVehicleEF	HHD	8.2750e-003	3.3440e-003
tblVehicleEF	HHD	0.06	0.06
tblVehicleEF	HHD	0.04	0.04
tblVehicleEF	HHD	0.01	0.03
tblVehicleEF	HHD	5.1000e-005	1.0000e-006
tblVehicleEF	HHD	7.9170e-003	3.2000e-003
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	8.8810e-003	8.9170e-003
tblVehicleEF	HHD	0.01	0.03
tblVehicleEF	HHD	4.7000e-005	1.0000e-006
tblVehicleEF	HHD	1.6800e-004	7.0000e-006
tblVehicleEF	HHD	3.5970e-003	1.2200e-004
tblVehicleEF	HHD	0.79	0.62
tblVehicleEF	HHD	1.1700e-004	5.0000e-006
tblVehicleEF	HHD	0.08	0.05
tblVehicleEF	HHD	2.2100e-004	5.3900e-004
tblVehicleEF	HHD	0.05	1.0000e-006
tblVehicleEF	HHD	0.07	0.01

tblVehicleEF	HHD	0.01	0.01
tblVehicleEF	HHD	8.4000e-005	0.00
tblVehicleEF	HHD	1.6800e-004	7.0000e-006
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tblVehicleEF	HHD	0.13	0.12
tblVehicleEF	HHD	2.2100e-004	5.3900e-004
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tblVehicleEF	HHD	6,364.76	1,476.72
tblVehicleEF	HHD	1,475.79	1,332.53
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tblVehicleEF	HHD	0.01	0.03
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tblVehicleEF	HHD	0.03	0.03

tblVehicleEF	HHD	8.8810e-003	8.8160e-003
tblVehicleEF	HHD	0.01	0.03
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tblVehicleEF	HHD	8.5000e-005	4.0000e-006
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tblVehicleEF	HHD	2.3300e-004	5.4600e-004
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tblVehicleEF	HHD	0.06	0.01
tblVehicleEF	HHD	0.01	0.01
tblVehicleEF	HHD	8.5000e-005	0.00
tblVehicleEF	HHD	8.5000e-005	4.0000e-006
tblVehicleEF	HHD	3.4760e-003	1.2300e-004
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tblVehicleEF	HHD	5.2000e-005	2.0000e-006
tblVehicleEF	HHD	0.13	0.06
tblVehicleEF	HHD	2.3300e-004	5.4600e-004
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tblVehicleEF	LDA	1.5460e-003	1.3330e-003
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tblVehicleEF	LDA	0.10	0.10
tblVehicleEF	LDA	0.03	0.05
tblVehicleEF	LDA	0.01	9.3320e-003
tblVehicleEF	LDA	0.03	0.21
tblVehicleEF	LDA	0.08	0.23
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tblVehicleEF	LDA	0.04	0.06
tblVehicleEF	LDA	0.10	0.10
tblVehicleEF	LDA	0.03	0.05
tblVehicleEF	LDA	0.02	0.01
tblVehicleEF	LDA	0.03	0.21
tblVehicleEF	LDA	0.08	0.25
tblVehicleEF	LDA	4.7900e-003	2.7940e-003
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tblVehicleEF	LDA	0.71	0.79
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tblVehicleEF	LDA	2.2790e-003	1.8580e-003

tblVehicleEF	LDA	1.5460e-003	1.3330e-003
tblVehicleEF	LDA	2.0960e-003	1.7080e-003
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tblVehicleEF	LDA	0.12	0.12
tblVehicleEF	LDA	0.07	0.10
tblVehicleEF	LDA	0.01	0.01
tblVehicleEF	LDA	0.03	0.21
tblVehicleEF	LDA	0.06	0.19
tblVehicleEF	LDA	2.7550e-003	2.8250e-003
tblVehicleEF	LDA	5.8800e-004	5.2600e-004
tblVehicleEF	LDA	0.09	0.12
tblVehicleEF	LDA	0.12	0.12
tblVehicleEF	LDA	0.07	0.10
tblVehicleEF	LDA	0.02	0.02
tblVehicleEF	LDA	0.03	0.21
tblVehicleEF	LDA	0.07	0.21
tblVehicleEF	LDA	4.0860e-003	2.3760e-003
tblVehicleEF	LDA	5.5870e-003	0.05
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tblVehicleEF	LDA	1.18	2.12
tblVehicleEF	LDA	245.70	255.84
tblVehicleEF	LDA	57.15	53.80
tblVehicleEF	LDA	0.05	0.04
tblVehicleEF	LDA	1.6780e-003	1.4470e-003
tblVehicleEF	LDA	2.2790e-003	1.8580e-003
tblVehicleEF	LDA	1.5460e-003	1.3330e-003
tblVehicleEF	LDA	2.0960e-003	1.7080e-003

tblVehicleEF	LDA	0.05	0.06
tblVehicleEF	LDA	0.11	0.11
tblVehicleEF	LDA	0.03	0.05
tblVehicleEF	LDA	0.01	9.0880e-003
tblVehicleEF	LDA	0.04	0.24
tblVehicleEF	LDA	0.08	0.23
tblVehicleEF	LDA	2.4600e-003	2.5310e-003
tblVehicleEF	LDA	5.9100e-004	5.3200e-004
tblVehicleEF	LDA	0.05	0.06
tblVehicleEF	LDA	0.11	0.11
tblVehicleEF	LDA	0.03	0.05
tblVehicleEF	LDA	0.01	0.01
tblVehicleEF	LDA	0.04	0.24
tblVehicleEF	LDA	0.08	0.25
tblVehicleEF	LDT1	0.01	7.0610e-003
tblVehicleEF	LDT1	0.02	0.08
tblVehicleEF	LDT1	1.54	1.44
tblVehicleEF	LDT1	3.61	2.44
tblVehicleEF	LDT1	313.68	310.02
tblVehicleEF	LDT1	70.93	65.50
tblVehicleEF	LDT1	0.16	0.13
tblVehicleEF	LDT1	2.7050e-003	2.1940e-003
tblVehicleEF	LDT1	3.6920e-003	2.8520e-003
tblVehicleEF	LDT1	2.4910e-003	2.0190e-003
tblVehicleEF	LDT1	3.3960e-003	2.6220e-003
tblVehicleEF	LDT1	0.18	0.19
tblVehicleEF	LDT1	0.33	0.26

tblVehicleEF	LDT1	0.13	0.13
tblVehicleEF	LDT1	0.03	0.03
tblVehicleEF	LDT1	0.20	0.88
tblVehicleEF	LDT1	0.26	0.43
tblVehicleEF	LDT1	3.1570e-003	3.0680e-003
tblVehicleEF	LDT1	7.7300e-004	6.4800e-004
tblVehicleEF	LDT1	0.18	0.19
tblVehicleEF	LDT1	0.33	0.26
tblVehicleEF	LDT1	0.13	0.13
tblVehicleEF	LDT1	0.05	0.05
tblVehicleEF	LDT1	0.20	0.88
tblVehicleEF	LDT1	0.28	0.48
tblVehicleEF	LDT1	0.02	8.0100e-003
tblVehicleEF	LDT1	0.02	0.07
tblVehicleEF	LDT1	1.85	1.74
tblVehicleEF	LDT1	2.97	2.02
tblVehicleEF	LDT1	341.75	335.16
tblVehicleEF	LDT1	70.93	64.59
tblVehicleEF	LDT1	0.14	0.12
tblVehicleEF	LDT1	2.7050e-003	2.1940e-003
tblVehicleEF	LDT1	3.6920e-003	2.8520e-003
tblVehicleEF	LDT1	2.4910e-003	2.0190e-003
tblVehicleEF	LDT1	3.3960e-003	2.6220e-003
tblVehicleEF	LDT1	0.37	0.40
tblVehicleEF	LDT1	0.41	0.33
tblVehicleEF	LDT1	0.27	0.29
tblVehicleEF	LDT1	0.04	0.04

tblVehicleEF	LDT1	0.20	0.88
tblVehicleEF	LDT1	0.21	0.36
tblVehicleEF	LDT1	3.4420e-003	3.3170e-003
tblVehicleEF	LDT1	7.6200e-004	6.3900e-004
tblVehicleEF	LDT1	0.37	0.40
tblVehicleEF	LDT1	0.41	0.33
tblVehicleEF	LDT1	0.27	0.29
tblVehicleEF	LDT1	0.06	0.05
tblVehicleEF	LDT1	0.20	0.88
tblVehicleEF	LDT1	0.23	0.40
tblVehicleEF	LDT1	0.01	6.8960e-003
tblVehicleEF	LDT1	0.02	0.08
tblVehicleEF	LDT1	1.47	1.37
tblVehicleEF	LDT1	3.55	2.40
tblVehicleEF	LDT1	307.06	304.06
tblVehicleEF	LDT1	70.93	65.42
tblVehicleEF	LDT1	0.15	0.12
tblVehicleEF	LDT1	2.7050e-003	2.1940e-003
tblVehicleEF	LDT1	3.6920e-003	2.8520e-003
tblVehicleEF	LDT1	2.4910e-003	2.0190e-003
tblVehicleEF	LDT1	3.3960e-003	2.6220e-003
tblVehicleEF	LDT1	0.19	0.20
tblVehicleEF	LDT1	0.39	0.30
tblVehicleEF	LDT1	0.12	0.12
tblVehicleEF	LDT1	0.03	0.03
tblVehicleEF	LDT1	0.23	1.03
tblVehicleEF	LDT1	0.25	0.43

tblVehicleEF	LDT1	3.0890e-003	3.0090e-003
tblVehicleEF	LDT1	7.7200e-004	6.4700e-004
tblVehicleEF	LDT1	0.19	0.20
tblVehicleEF	LDT1	0.39	0.30
tblVehicleEF	LDT1	0.12	0.12
tblVehicleEF	LDT1	0.05	0.04
tblVehicleEF	LDT1	0.23	1.03
tblVehicleEF	LDT1	0.28	0.47
tblVehicleEF	LDT2	6.3270e-003	4.2800e-003
tblVehicleEF	LDT2	8.1990e-003	0.07
tblVehicleEF	LDT2	0.80	0.97
tblVehicleEF	LDT2	1.67	2.78
tblVehicleEF	LDT2	351.15	331.49
tblVehicleEF	LDT2	79.39	70.30
tblVehicleEF	LDT2	0.09	0.09
tblVehicleEF	LDT2	1.7270e-003	1.5180e-003
tblVehicleEF	LDT2	2.4170e-003	1.9480e-003
tblVehicleEF	LDT2	1.5880e-003	1.3970e-003
tblVehicleEF	LDT2	2.2220e-003	1.7910e-003
tblVehicleEF	LDT2	0.06	0.10
tblVehicleEF	LDT2	0.13	0.15
tblVehicleEF	LDT2	0.05	0.08
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.07	0.48
tblVehicleEF	LDT2	0.11	0.35
tblVehicleEF	LDT2	3.5180e-003	3.2800e-003
tblVehicleEF	LDT2	8.2200e-004	6.9600e-004

tblVehicleEF	LDT2	0.06	0.10
tblVehicleEF	LDT2	0.13	0.15
tblVehicleEF	LDT2	0.05	0.08
tblVehicleEF	LDT2	0.02	0.03
tblVehicleEF	LDT2	0.07	0.48
tblVehicleEF	LDT2	0.12	0.38
tblVehicleEF	LDT2	7.1840e-003	4.8870e-003
tblVehicleEF	LDT2	6.8290e-003	0.06
tblVehicleEF	LDT2	0.97	1.18
tblVehicleEF	LDT2	1.38	2.30
tblVehicleEF	LDT2	383.36	355.94
tblVehicleEF	LDT2	79.39	69.35
tblVehicleEF	LDT2	0.08	0.08
tblVehicleEF	LDT2	1.7270e-003	1.5180e-003
tblVehicleEF	LDT2	2.4170e-003	1.9480e-003
tblVehicleEF	LDT2	1.5880e-003	1.3970e-003
tblVehicleEF	LDT2	2.2220e-003	1.7910e-003
tblVehicleEF	LDT2	0.13	0.21
tblVehicleEF	LDT2	0.15	0.18
tblVehicleEF	LDT2	0.11	0.18
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.07	0.48
tblVehicleEF	LDT2	0.09	0.29
tblVehicleEF	LDT2	3.8420e-003	3.5220e-003
tblVehicleEF	LDT2	8.1700e-004	6.8600e-004
tblVehicleEF	LDT2	0.13	0.21
tblVehicleEF	LDT2	0.15	0.18

tblVehicleEF	LDT2	0.11	0.18
tblVehicleEF	LDT2	0.03	0.03
tblVehicleEF	LDT2	0.07	0.48
tblVehicleEF	LDT2	0.10	0.32
tblVehicleEF	LDT2	6.1560e-003	4.1770e-003
tblVehicleEF	LDT2	8.1410e-003	0.07
tblVehicleEF	LDT2	0.75	0.92
tblVehicleEF	LDT2	1.64	2.74
tblVehicleEF	LDT2	343.55	325.69
tblVehicleEF	LDT2	79.39	70.22
tblVehicleEF	LDT2	0.08	0.09
tblVehicleEF	LDT2	1.7270e-003	1.5180e-003
tblVehicleEF	LDT2	2.4170e-003	1.9480e-003
tblVehicleEF	LDT2	1.5880e-003	1.3970e-003
tblVehicleEF	LDT2	2.2220e-003	1.7910e-003
tblVehicleEF	LDT2	0.06	0.10
tblVehicleEF	LDT2	0.14	0.16
tblVehicleEF	LDT2	0.05	0.08
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.08	0.56
tblVehicleEF	LDT2	0.11	0.35
tblVehicleEF	LDT2	3.4410e-003	3.2220e-003
tblVehicleEF	LDT2	8.2200e-004	6.9500e-004
tblVehicleEF	LDT2	0.06	0.10
tblVehicleEF	LDT2	0.14	0.16
tblVehicleEF	LDT2	0.05	0.08
tblVehicleEF	LDT2	0.02	0.03

tblVehicleEF	LDT2	0.08	0.56
tblVehicleEF	LDT2	0.12	0.38
tblVehicleEF	LHD1	5.2170e-003	4.8640e-003
tblVehicleEF	LHD1	0.01	6.5090e-003
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	0.14	0.17
tblVehicleEF	LHD1	1.07	0.88
tblVehicleEF	LHD1	2.60	1.03
tblVehicleEF	LHD1	9.23	9.35
tblVehicleEF	LHD1	609.20	648.62
tblVehicleEF	LHD1	30.40	10.79
tblVehicleEF	LHD1	0.09	0.08
tblVehicleEF	LHD1	2.12	1.54
tblVehicleEF	LHD1	9.6500e-004	9.5300e-004
tblVehicleEF	LHD1	0.01	9.9680e-003
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	9.5800e-004	2.6300e-004
tblVehicleEF	LHD1	9.2400e-004	9.1200e-004
tblVehicleEF	LHD1	2.5390e-003	2.4920e-003
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	8.8100e-004	2.4200e-004
tblVehicleEF	LHD1	3.7070e-003	3.1750e-003
tblVehicleEF	LHD1	0.11	0.09
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	1.8240e-003	1.5420e-003
tblVehicleEF	LHD1	0.08	0.07
tblVehicleEF	LHD1	0.35	0.60

tblVehicleEF	LHD1	0.27	0.08
tblVehicleEF	LHD1	9.2000e-005	9.0000e-005
tblVehicleEF	LHD1	5.9760e-003	6.3130e-003
tblVehicleEF	LHD1	3.5300e-004	1.0700e-004
tblVehicleEF	LHD1	3.7070e-003	3.1750e-003
tblVehicleEF	LHD1	0.11	0.09
tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	1.8240e-003	1.5420e-003
tblVehicleEF	LHD1	0.10	0.08
tblVehicleEF	LHD1	0.35	0.60
tblVehicleEF	LHD1	0.29	0.09
tblVehicleEF	LHD1	5.2170e-003	4.8790e-003
tblVehicleEF	LHD1	0.01	6.6670e-003
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	0.14	0.17
tblVehicleEF	LHD1	1.09	0.90
tblVehicleEF	LHD1	2.43	0.97
tblVehicleEF	LHD1	9.23	9.35
tblVehicleEF	LHD1	609.20	648.66
tblVehicleEF	LHD1	30.40	10.67
tblVehicleEF	LHD1	0.09	0.08
tblVehicleEF	LHD1	1.98	1.44
tblVehicleEF	LHD1	9.6500e-004	9.5300e-004
tblVehicleEF	LHD1	0.01	9.9680e-003
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	9.5800e-004	2.6300e-004
tblVehicleEF	LHD1	9.2400e-004	9.1200e-004

tblVehicleEF	LHD1	2.5390e-003	2.4920e-003
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	8.8100e-004	2.4200e-004
tblVehicleEF	LHD1	7.3080e-003	6.2980e-003
tblVehicleEF	LHD1	0.13	0.11
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	4.1220e-003	3.5370e-003
tblVehicleEF	LHD1	0.09	0.07
tblVehicleEF	LHD1	0.36	0.60
tblVehicleEF	LHD1	0.25	0.08
tblVehicleEF	LHD1	9.2000e-005	9.0000e-005
tblVehicleEF	LHD1	5.9770e-003	6.3140e-003
tblVehicleEF	LHD1	3.5000e-004	1.0600e-004
tblVehicleEF	LHD1	7.3080e-003	6.2980e-003
tblVehicleEF	LHD1	0.13	0.11
tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	4.1220e-003	3.5370e-003
tblVehicleEF	LHD1	0.11	0.09
tblVehicleEF	LHD1	0.36	0.60
tblVehicleEF	LHD1	0.28	0.08
tblVehicleEF	LHD1	5.2170e-003	4.8670e-003
tblVehicleEF	LHD1	0.01	6.5250e-003
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	0.14	0.17
tblVehicleEF	LHD1	1.07	0.89
tblVehicleEF	LHD1	2.55	1.02
tblVehicleEF	LHD1	9.23	9.35

tblVehicleEF	LHD1	609.20	648.63
tblVehicleEF	LHD1	30.40	10.76
tblVehicleEF	LHD1	0.09	0.08
tblVehicleEF	LHD1	2.08	1.51
tblVehicleEF	LHD1	9.6500e-004	9.5300e-004
tblVehicleEF	LHD1	0.01	9.9680e-003
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	9.5800e-004	2.6300e-004
tblVehicleEF	LHD1	9.2400e-004	9.1200e-004
tblVehicleEF	LHD1	2.5390e-003	2.4920e-003
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	8.8100e-004	2.4200e-004
tblVehicleEF	LHD1	4.0430e-003	3.5090e-003
tblVehicleEF	LHD1	0.13	0.10
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	1.7940e-003	1.5200e-003
tblVehicleEF	LHD1	0.08	0.07
tblVehicleEF	LHD1	0.38	0.64
tblVehicleEF	LHD1	0.26	0.08
tblVehicleEF	LHD1	9.2000e-005	9.0000e-005
tblVehicleEF	LHD1	5.9760e-003	6.3130e-003
tblVehicleEF	LHD1	3.5200e-004	1.0600e-004
tblVehicleEF	LHD1	4.0430e-003	3.5090e-003
tblVehicleEF	LHD1	0.13	0.10
tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	1.7940e-003	1.5200e-003
tblVehicleEF	LHD1	0.10	0.08

tblVehicleEF	LHD1	0.38	0.64
tblVehicleEF	LHD1	0.29	0.09
tblVehicleEF	LHD2	3.5950e-003	3.3090e-003
tblVehicleEF	LHD2	4.6110e-003	4.1580e-003
tblVehicleEF	LHD2	8.1370e-003	9.5080e-003
tblVehicleEF	LHD2	0.12	0.14
tblVehicleEF	LHD2	0.50	0.56
tblVehicleEF	LHD2	1.20	0.61
tblVehicleEF	LHD2	14.27	14.55
tblVehicleEF	LHD2	608.52	648.96
tblVehicleEF	LHD2	24.46	7.78
tblVehicleEF	LHD2	0.11	0.11
tblVehicleEF	LHD2	1.49	1.65
tblVehicleEF	LHD2	1.2830e-003	1.4030e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	4.0000e-004	1.2600e-004
tblVehicleEF	LHD2	1.2280e-003	1.3430e-003
tblVehicleEF	LHD2	2.6860e-003	2.6930e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	3.6800e-004	1.1600e-004
tblVehicleEF	LHD2	1.3070e-003	1.5580e-003
tblVehicleEF	LHD2	0.04	0.05
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	7.0300e-004	8.0000e-004
tblVehicleEF	LHD2	0.06	0.06
tblVehicleEF	LHD2	0.09	0.29

tblVehicleEF	LHD2	0.11	0.05
tblVehicleEF	LHD2	5.9200e-003	6.2610e-003
tblVehicleEF	LHD2	2.6700e-004	7.7000e-005
tblVehicleEF	LHD2	1.3070e-003	1.5580e-003
tblVehicleEF	LHD2	0.04	0.05
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	7.0300e-004	8.0000e-004
tblVehicleEF	LHD2	0.07	0.07
tblVehicleEF	LHD2	0.09	0.29
tblVehicleEF	LHD2	0.12	0.05
tblVehicleEF	LHD2	3.5950e-003	3.3190e-003
tblVehicleEF	LHD2	4.6760e-003	4.2030e-003
tblVehicleEF	LHD2	7.7630e-003	9.0810e-003
tblVehicleEF	LHD2	0.12	0.14
tblVehicleEF	LHD2	0.50	0.56
tblVehicleEF	LHD2	1.13	0.57
tblVehicleEF	LHD2	14.27	14.55
tblVehicleEF	LHD2	608.52	648.97
tblVehicleEF	LHD2	24.46	7.71
tblVehicleEF	LHD2	0.11	0.11
tblVehicleEF	LHD2	1.40	1.55
tblVehicleEF	LHD2	1.2830e-003	1.4030e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	4.0000e-004	1.2600e-004
tblVehicleEF	LHD2	1.2280e-003	1.3430e-003
tblVehicleEF	LHD2	2.6860e-003	2.6930e-003

tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	3.6800e-004	1.1600e-004
tblVehicleEF	LHD2	2.5220e-003	3.0280e-003
tblVehicleEF	LHD2	0.04	0.06
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	1.5220e-003	1.7650e-003
tblVehicleEF	LHD2	0.06	0.06
tblVehicleEF	LHD2	0.09	0.29
tblVehicleEF	LHD2	0.10	0.04
tblVehicleEF	LHD2	5.9200e-003	6.2610e-003
tblVehicleEF	LHD2	2.6500e-004	7.6000e-005
tblVehicleEF	LHD2	2.5220e-003	3.0280e-003
tblVehicleEF	LHD2	0.04	0.06
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	1.5220e-003	1.7650e-003
tblVehicleEF	LHD2	0.07	0.07
tblVehicleEF	LHD2	0.09	0.29
tblVehicleEF	LHD2	0.11	0.05
tblVehicleEF	LHD2	3.5950e-003	3.3110e-003
tblVehicleEF	LHD2	4.6180e-003	4.1630e-003
tblVehicleEF	LHD2	8.0640e-003	9.4270e-003
tblVehicleEF	LHD2	0.12	0.14
tblVehicleEF	LHD2	0.50	0.56
tblVehicleEF	LHD2	1.19	0.60
tblVehicleEF	LHD2	14.27	14.55
tblVehicleEF	LHD2	608.52	648.96
tblVehicleEF	LHD2	24.46	7.77

tblVehicleEF	LHD2	0.11	0.11
tblVehicleEF	LHD2	1.46	1.62
tblVehicleEF	LHD2	1.2830e-003	1.4030e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	4.0000e-004	1.2600e-004
tblVehicleEF	LHD2	1.2280e-003	1.3430e-003
tblVehicleEF	LHD2	2.6860e-003	2.6930e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	3.6800e-004	1.1600e-004
tblVehicleEF	LHD2	1.3460e-003	1.6400e-003
tblVehicleEF	LHD2	0.04	0.05
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	6.8700e-004	7.8100e-004
tblVehicleEF	LHD2	0.06	0.06
tblVehicleEF	LHD2	0.10	0.31
tblVehicleEF	LHD2	0.11	0.05
tblVehicleEF	LHD2	5.9200e-003	6.2610e-003
tblVehicleEF	LHD2	2.6600e-004	7.7000e-005
tblVehicleEF	LHD2	1.3460e-003	1.6400e-003
tblVehicleEF	LHD2	0.04	0.05
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	6.8700e-004	7.8100e-004
tblVehicleEF	LHD2	0.07	0.07
tblVehicleEF	LHD2	0.10	0.31
tblVehicleEF	LHD2	0.12	0.05
tblVehicleEF	MCY	0.43	0.33

tblVehicleEF	MCY	0.16	0.25
tblVehicleEF	MCY	20.55	20.74
tblVehicleEF	MCY	9.93	8.78
tblVehicleEF	MCY	167.73	210.98
tblVehicleEF	MCY	46.45	61.55
tblVehicleEF	MCY	1.16	1.17
tblVehicleEF	MCY	1.8610e-003	1.8280e-003
tblVehicleEF	MCY	3.6730e-003	3.0520e-003
tblVehicleEF	MCY	1.7420e-003	1.7110e-003
tblVehicleEF	MCY	3.4650e-003	2.8770e-003
tblVehicleEF	MCY	1.45	1.44
tblVehicleEF	MCY	0.84	0.84
tblVehicleEF	MCY	0.80	0.80
tblVehicleEF	MCY	2.23	2.23
tblVehicleEF	MCY	0.49	2.04
tblVehicleEF	MCY	2.16	1.90
tblVehicleEF	MCY	2.0770e-003	2.0880e-003
tblVehicleEF	MCY	6.9000e-004	6.0900e-004
tblVehicleEF	MCY	1.45	1.44
tblVehicleEF	MCY	0.84	0.84
tblVehicleEF	MCY	0.80	0.80
tblVehicleEF	MCY	2.74	2.74
tblVehicleEF	MCY	0.49	2.04
tblVehicleEF	MCY	2.35	2.07
tblVehicleEF	MCY	0.42	0.32
tblVehicleEF	MCY	0.14	0.22
tblVehicleEF	MCY	20.68	20.87

tblVehicleEF	MCY	9.05	7.97
tblVehicleEF	MCY	167.73	210.98
tblVehicleEF	MCY	46.45	59.35
tblVehicleEF	MCY	0.99	0.99
tblVehicleEF	MCY	1.8610e-003	1.8280e-003
tblVehicleEF	MCY	3.6730e-003	3.0520e-003
tblVehicleEF	MCY	1.7420e-003	1.7110e-003
tblVehicleEF	MCY	3.4650e-003	2.8770e-003
tblVehicleEF	MCY	3.14	3.14
tblVehicleEF	MCY	1.27	1.28
tblVehicleEF	MCY	2.13	2.12
tblVehicleEF	MCY	2.17	2.17
tblVehicleEF	MCY	0.49	2.03
tblVehicleEF	MCY	1.86	1.63
tblVehicleEF	MCY	2.0770e-003	2.0880e-003
tblVehicleEF	MCY	6.6700e-004	5.8700e-004
tblVehicleEF	MCY	3.14	3.14
tblVehicleEF	MCY	1.27	1.28
tblVehicleEF	MCY	2.13	2.12
tblVehicleEF	MCY	2.67	2.67
tblVehicleEF	MCY	0.49	2.03
tblVehicleEF	MCY	2.02	1.77
tblVehicleEF	MCY	0.42	0.32
tblVehicleEF	MCY	0.15	0.24
tblVehicleEF	MCY	19.63	19.79
tblVehicleEF	MCY	9.55	8.43
tblVehicleEF	MCY	167.73	209.35

tblVehicleEF	MCY	46.45	60.75
tblVehicleEF	MCY	1.12	1.12
tblVehicleEF	MCY	1.8610e-003	1.8280e-003
tblVehicleEF	MCY	3.6730e-003	3.0520e-003
tblVehicleEF	MCY	1.7420e-003	1.7110e-003
tblVehicleEF	MCY	3.4650e-003	2.8770e-003
tblVehicleEF	MCY	1.71	1.70
tblVehicleEF	MCY	1.13	1.12
tblVehicleEF	MCY	0.72	0.71
tblVehicleEF	MCY	2.19	2.20
tblVehicleEF	MCY	0.56	2.32
tblVehicleEF	MCY	2.08	1.83
tblVehicleEF	MCY	2.0610e-003	2.0720e-003
tblVehicleEF	MCY	6.8200e-004	6.0100e-004
tblVehicleEF	MCY	1.71	1.70
tblVehicleEF	MCY	1.13	1.12
tblVehicleEF	MCY	0.72	0.71
tblVehicleEF	MCY	2.69	2.69
tblVehicleEF	MCY	0.56	2.32
tblVehicleEF	MCY	2.27	1.99
tblVehicleEF	MDV	0.01	5.5560e-003
tblVehicleEF	MDV	0.02	0.09
tblVehicleEF	MDV	1.35	1.14
tblVehicleEF	MDV	3.25	3.33
tblVehicleEF	MDV	483.94	412.02
tblVehicleEF	MDV	107.92	87.05
tblVehicleEF	MDV	0.17	0.12

tblVehicleEF	MDV	1.8260e-003	1.6290e-003
tblVehicleEF	MDV	2.5170e-003	2.0560e-003
tblVehicleEF	MDV	1.6830e-003	1.5030e-003
tblVehicleEF	MDV	2.3150e-003	1.8910e-003
tblVehicleEF	MDV	0.10	0.12
tblVehicleEF	MDV	0.20	0.17
tblVehicleEF	MDV	0.08	0.10
tblVehicleEF	MDV	0.03	0.02
tblVehicleEF	MDV	0.11	0.52
tblVehicleEF	MDV	0.25	0.45
tblVehicleEF	MDV	4.8500e-003	4.0740e-003
tblVehicleEF	MDV	1.1370e-003	8.6100e-004
tblVehicleEF	MDV	0.10	0.12
tblVehicleEF	MDV	0.20	0.17
tblVehicleEF	MDV	0.08	0.10
tblVehicleEF	MDV	0.05	0.03
tblVehicleEF	MDV	0.11	0.52
tblVehicleEF	MDV	0.28	0.50
tblVehicleEF	MDV	0.01	6.3580e-003
tblVehicleEF	MDV	0.02	0.08
tblVehicleEF	MDV	1.64	1.38
tblVehicleEF	MDV	2.69	2.75
tblVehicleEF	MDV	526.85	437.99
tblVehicleEF	MDV	107.92	85.88
tblVehicleEF	MDV	0.16	0.11
tblVehicleEF	MDV	1.8260e-003	1.6290e-003
tblVehicleEF	MDV	2.5170e-003	2.0560e-003

tblVehicleEF	MDV	1.6830e-003	1.5030e-003
tblVehicleEF	MDV	2.3150e-003	1.8910e-003
tblVehicleEF	MDV	0.20	0.24
tblVehicleEF	MDV	0.23	0.20
tblVehicleEF	MDV	0.17	0.21
tblVehicleEF	MDV	0.04	0.03
tblVehicleEF	MDV	0.11	0.52
tblVehicleEF	MDV	0.21	0.38
tblVehicleEF	MDV	5.2830e-003	4.3310e-003
tblVehicleEF	MDV	1.1260e-003	8.5000e-004
tblVehicleEF	MDV	0.20	0.24
tblVehicleEF	MDV	0.23	0.20
tblVehicleEF	MDV	0.17	0.21
tblVehicleEF	MDV	0.05	0.04
tblVehicleEF	MDV	0.11	0.52
tblVehicleEF	MDV	0.23	0.42
tblVehicleEF	MDV	0.01	5.4100e-003
tblVehicleEF	MDV	0.02	0.09
tblVehicleEF	MDV	1.28	1.08
tblVehicleEF	MDV	3.20	3.28
tblVehicleEF	MDV	473.93	405.86
tblVehicleEF	MDV	107.92	86.95
tblVehicleEF	MDV	0.16	0.11
tblVehicleEF	MDV	1.8260e-003	1.6290e-003
tblVehicleEF	MDV	2.5170e-003	2.0560e-003
tblVehicleEF	MDV	1.6830e-003	1.5030e-003
tblVehicleEF	MDV	2.3150e-003	1.8910e-003

tblVehicleEF	MDV	0.10	0.11
tblVehicleEF	MDV	0.22	0.19
tblVehicleEF	MDV	0.08	0.10
tblVehicleEF	MDV	0.03	0.02
tblVehicleEF	MDV	0.13	0.60
tblVehicleEF	MDV	0.25	0.45
tblVehicleEF	MDV	4.7490e-003	4.0130e-003
tblVehicleEF	MDV	1.1360e-003	8.6000e-004
tblVehicleEF	MDV	0.10	0.11
tblVehicleEF	MDV	0.22	0.19
tblVehicleEF	MDV	0.08	0.10
tblVehicleEF	MDV	0.04	0.03
tblVehicleEF	MDV	0.13	0.60
tblVehicleEF	MDV	0.27	0.49
tblVehicleEF	MH	0.04	3.7970e-003
tblVehicleEF	MH	0.03	0.00
tblVehicleEF	MH	3.07	0.36
tblVehicleEF	MH	6.43	0.00
tblVehicleEF	MH	1,045.05	951.23
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tblVehicleEF	MH	1.54	4.54
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tblVehicleEF	MH	0.04	0.14
tblVehicleEF	MH	1.1740e-003	0.00
tblVehicleEF	MH	3.2230e-003	4.0000e-003
tblVehicleEF	MH	0.04	0.14
tblVehicleEF	MH	1.0790e-003	0.00

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tblVehicleEF	MH	0.09	0.00
tblVehicleEF	MH	0.51	0.00
tblVehicleEF	MH	0.10	0.08
tblVehicleEF	MH	0.03	0.00
tblVehicleEF	MH	0.37	0.00
tblVehicleEF	MH	0.01	8.9930e-003
tblVehicleEF	MH	7.0700e-004	0.00
tblVehicleEF	MH	1.47	0.00
tblVehicleEF	MH	0.09	0.00
tblVehicleEF	MH	0.51	0.00
tblVehicleEF	MH	0.14	0.09
tblVehicleEF	MH	0.03	0.00
tblVehicleEF	MH	0.40	0.00
tblVehicleEF	MH	0.04	3.7970e-003
tblVehicleEF	MH	0.03	0.00
tblVehicleEF	MH	3.19	0.36
tblVehicleEF	MH	5.84	0.00
tblVehicleEF	MH	1,045.05	951.23
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tblVehicleEF	MH	1.41	4.26
tblVehicleEF	MH	0.01	0.02
tblVehicleEF	MH	0.04	0.14
tblVehicleEF	MH	1.1740e-003	0.00
tblVehicleEF	MH	3.2230e-003	4.0000e-003
tblVehicleEF	MH	0.04	0.14
tblVehicleEF	MH	1.0790e-003	0.00

tblVehicleEF	MH	2.91	0.00
tblVehicleEF	MH	0.11	0.00
tblVehicleEF	MH	1.21	0.00
tblVehicleEF	MH	0.11	0.08
tblVehicleEF	MH	0.03	0.00
tblVehicleEF	MH	0.34	0.00
tblVehicleEF	MH	0.01	8.9930e-003
tblVehicleEF	MH	6.9700e-004	0.00
tblVehicleEF	MH	2.91	0.00
tblVehicleEF	MH	0.11	0.00
tblVehicleEF	MH	1.21	0.00
tblVehicleEF	MH	0.15	0.09
tblVehicleEF	MH	0.03	0.00
tblVehicleEF	MH	0.38	0.00
tblVehicleEF	MH	0.04	3.7970e-003
tblVehicleEF	MH	0.03	0.00
tblVehicleEF	MH	3.08	0.36
tblVehicleEF	MH	6.36	0.00
tblVehicleEF	MH	1,045.05	951.23
tblVehicleEF	MH	59.49	0.00
tblVehicleEF	MH	1.51	4.46
tblVehicleEF	MH	0.01	0.02
tblVehicleEF	MH	0.04	0.14
tblVehicleEF	MH	1.1740e-003	0.00
tblVehicleEF	MH	3.2230e-003	4.0000e-003
tblVehicleEF	MH	0.04	0.14
tblVehicleEF	MH	1.0790e-003	0.00

tblVehicleEF	MH	1.75	0.00
tblVehicleEF	MH	0.11	0.00
tblVehicleEF	MH	0.53	0.00
tblVehicleEF	MH	0.10	0.08
tblVehicleEF	MH	0.03	0.00
tblVehicleEF	MH	0.37	0.00
tblVehicleEF	MH	0.01	8.9930e-003
tblVehicleEF	MH	7.0600e-004	0.00
tblVehicleEF	MH	1.75	0.00
tblVehicleEF	MH	0.11	0.00
tblVehicleEF	MH	0.53	0.00
tblVehicleEF	MH	0.15	0.09
tblVehicleEF	MH	0.03	0.00
tblVehicleEF	MH	0.40	0.00
tblVehicleEF	MHD	0.02	3.1740e-003
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tblVehicleEF	MHD	5.0030e-003	0.03

tblVehicleEF	MHD	7.6400e-004	1.0000e-004
tblVehicleEF	MHD	3.6900e-004	1.1300e-003
tblVehicleEF	MHD	4.7830e-003	0.03
tblVehicleEF	MHD	7.0300e-004	9.2000e-005
tblVehicleEF	MHD	1.2800e-003	5.9300e-004
tblVehicleEF	MHD	0.04	0.02
tblVehicleEF	MHD	0.02	0.02
tblVehicleEF	MHD	6.5100e-004	3.0000e-004
tblVehicleEF	MHD	0.04	0.05
tblVehicleEF	MHD	0.02	0.11
tblVehicleEF	MHD	0.32	0.04
tblVehicleEF	MHD	1.5080e-003	6.5500e-004
tblVehicleEF	MHD	0.01	9.5250e-003
tblVehicleEF	MHD	6.1700e-004	8.2000e-005
tblVehicleEF	MHD	1.2800e-003	5.9300e-004
tblVehicleEF	MHD	0.04	0.02
tblVehicleEF	MHD	0.03	0.02
tblVehicleEF	MHD	6.5100e-004	3.0000e-004
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tblVehicleEF	MHD	0.02	0.11
tblVehicleEF	MHD	0.35	0.05
tblVehicleEF	MHD	0.02	3.0170e-003
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tblVehicleEF	MHD	0.05	8.1180e-003
tblVehicleEF	MHD	0.24	0.28
tblVehicleEF	MHD	0.28	0.36
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tblVehicleEF	MHD	1,101.52	999.60
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tblVehicleEF	MHD	3.2500e-004	9.9900e-004
tblVehicleEF	MHD	5.0030e-003	0.03
tblVehicleEF	MHD	7.6400e-004	1.0000e-004
tblVehicleEF	MHD	3.1100e-004	9.5500e-004
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tblVehicleEF	MHD	7.0300e-004	9.2000e-005
tblVehicleEF	MHD	2.5300e-003	1.1740e-003
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tblVehicleEF	MHD	0.02	0.11
tblVehicleEF	MHD	0.30	0.04
tblVehicleEF	MHD	1.5950e-003	6.6200e-004
tblVehicleEF	MHD	0.01	9.5250e-003
tblVehicleEF	MHD	6.1100e-004	8.1000e-005
tblVehicleEF	MHD	2.5300e-003	1.1740e-003
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tblVehicleEF	MHD	0.03	0.02
tblVehicleEF	MHD	1.5010e-003	6.9400e-004
tblVehicleEF	MHD	0.04	0.06
tblVehicleEF	MHD	0.02	0.11

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tblVehicleEF	MHD	0.02	3.4070e-003
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tblVehicleEF	MHD	0.27	0.35
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tblVehicleEF	MHD	1,101.52	999.60
tblVehicleEF	MHD	52.43	8.22
tblVehicleEF	MHD	0.57	0.51
tblVehicleEF	MHD	0.97	1.51
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tblVehicleEF	MHD	7.6400e-004	1.0000e-004
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tblVehicleEF	MHD	7.0300e-004	9.2000e-005
tblVehicleEF	MHD	1.3890e-003	6.4600e-004
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tblVehicleEF	MHD	6.4000e-004	2.9500e-004
tblVehicleEF	MHD	0.04	0.05
tblVehicleEF	MHD	0.02	0.12
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tblVehicleEF	MHD	1.3860e-003	6.4600e-004
tblVehicleEF	MHD	0.01	9.5250e-003

tblVehicleEF	MHD	6.1600e-004	8.1000e-005
tblVehicleEF	MHD	1.3890e-003	6.4600e-004
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tblVehicleEF	MHD	0.04	0.02
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tblVehicleEF	OBUS	0.26	0.48
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tblVehicleEF	OBUS	4.6440e-003	0.01
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tblVehicleEF	OBUS	6.1000e-005	4.7800e-004
tblVehicleEF	OBUS	4.4220e-003	0.01
tblVehicleEF	OBUS	8.5400e-004	2.1200e-004
tblVehicleEF	OBUS	2.1800e-003	2.7870e-003
tblVehicleEF	OBUS	0.02	0.03

tblVehicleEF	OBUS	0.04	0.05
tblVehicleEF	OBUS	9.3100e-004	1.1430e-003
tblVehicleEF	OBUS	0.04	0.06
tblVehicleEF	OBUS	0.05	0.31
tblVehicleEF	OBUS	0.38	0.13
tblVehicleEF	OBUS	6.8400e-004	6.3600e-004
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	8.1700e-004	2.1700e-004
tblVehicleEF	OBUS	2.1800e-003	2.7870e-003
tblVehicleEF	OBUS	0.02	0.03
tblVehicleEF	OBUS	0.05	0.07
tblVehicleEF	OBUS	9.3100e-004	1.1430e-003
tblVehicleEF	OBUS	0.06	0.07
tblVehicleEF	OBUS	0.05	0.31
tblVehicleEF	OBUS	0.42	0.14
tblVehicleEF	OBUS	0.01	9.2020e-003
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tblVehicleEF	OBUS	0.03	0.02
tblVehicleEF	OBUS	0.26	0.47
tblVehicleEF	OBUS	0.65	1.01
tblVehicleEF	OBUS	5.74	2.51
tblVehicleEF	OBUS	73.50	66.43
tblVehicleEF	OBUS	1,121.50	1,475.46
tblVehicleEF	OBUS	70.70	21.50
tblVehicleEF	OBUS	0.29	0.28
tblVehicleEF	OBUS	0.90	1.04
tblVehicleEF	OBUS	5.4000e-005	4.2500e-004

tblVehicleEF	OBUS	4.6440e-003	0.01
tblVehicleEF	OBUS	9.2900e-004	2.3000e-004
tblVehicleEF	OBUS	5.1000e-005	4.0700e-004
tblVehicleEF	OBUS	4.4220e-003	0.01
tblVehicleEF	OBUS	8.5400e-004	2.1200e-004
tblVehicleEF	OBUS	4.2350e-003	5.4310e-003
tblVehicleEF	OBUS	0.02	0.03
tblVehicleEF	OBUS	0.03	0.05
tblVehicleEF	OBUS	2.1330e-003	2.6360e-003
tblVehicleEF	OBUS	0.05	0.06
tblVehicleEF	OBUS	0.05	0.31
tblVehicleEF	OBUS	0.36	0.12
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tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	8.0800e-004	2.1300e-004
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tblVehicleEF	OBUS	0.05	0.07
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tblVehicleEF	OBUS	0.40	0.14
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tblVehicleEF	OBUS	9.9380e-003	8.5700e-003
tblVehicleEF	OBUS	0.03	0.03
tblVehicleEF	OBUS	0.28	0.49
tblVehicleEF	OBUS	0.63	0.99

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tblVehicleEF	OBUS	0.96	1.11
tblVehicleEF	OBUS	7.7000e-005	6.0400e-004
tblVehicleEF	OBUS	4.6440e-003	0.01
tblVehicleEF	OBUS	9.2900e-004	2.3000e-004
tblVehicleEF	OBUS	7.4000e-005	5.7800e-004
tblVehicleEF	OBUS	4.4220e-003	0.01
tblVehicleEF	OBUS	8.5400e-004	2.1200e-004
tblVehicleEF	OBUS	2.3200e-003	3.0070e-003
tblVehicleEF	OBUS	0.02	0.03
tblVehicleEF	OBUS	0.04	0.05
tblVehicleEF	OBUS	9.4100e-004	1.1540e-003
tblVehicleEF	OBUS	0.04	0.06
tblVehicleEF	OBUS	0.05	0.33
tblVehicleEF	OBUS	0.38	0.13
tblVehicleEF	OBUS	6.4200e-004	6.3800e-004
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	8.1600e-004	2.1600e-004
tblVehicleEF	OBUS	2.3200e-003	3.0070e-003
tblVehicleEF	OBUS	0.02	0.03
tblVehicleEF	OBUS	0.05	0.06
tblVehicleEF	OBUS	9.4100e-004	1.1540e-003
tblVehicleEF	OBUS	0.06	0.08

tblVehicleEF	OBUS	0.05	0.33
tblVehicleEF	OBUS	0.42	0.14
tblVehicleEF	SBUS	0.84	0.04
tblVehicleEF	SBUS	0.01	6.8550e-003
tblVehicleEF	SBUS	0.07	4.0770e-003
tblVehicleEF	SBUS	5.71	1.90
tblVehicleEF	SBUS	0.65	0.58
tblVehicleEF	SBUS	5.33	0.55
tblVehicleEF	SBUS	1,258.13	336.22
tblVehicleEF	SBUS	1,136.31	1,128.72
tblVehicleEF	SBUS	37.11	3.21
tblVehicleEF	SBUS	11.70	3.35
tblVehicleEF	SBUS	4.77	5.07
tblVehicleEF	SBUS	0.01	4.0350e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.03	0.03
tblVehicleEF	SBUS	5.1700e-004	3.0000e-005
tblVehicleEF	SBUS	0.01	3.8600e-003
tblVehicleEF	SBUS	2.7560e-003	2.7660e-003
tblVehicleEF	SBUS	0.03	0.03
tblVehicleEF	SBUS	4.7500e-004	2.8000e-005
tblVehicleEF	SBUS	2.9260e-003	7.3800e-004
tblVehicleEF	SBUS	0.02	5.5390e-003
tblVehicleEF	SBUS	0.68	0.20
tblVehicleEF	SBUS	1.3050e-003	3.4800e-004
tblVehicleEF	SBUS	0.11	0.10
tblVehicleEF	SBUS	9.3510e-003	0.04

tblVehicleEF	SBUS	0.27	0.02
tblVehicleEF	SBUS	0.01	3.1960e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	4.6300e-004	3.2000e-005
tblVehicleEF	SBUS	2.9260e-003	7.3800e-004
tblVehicleEF	SBUS	0.02	5.5390e-003
tblVehicleEF	SBUS	0.97	0.28
tblVehicleEF	SBUS	1.3050e-003	3.4800e-004
tblVehicleEF	SBUS	0.13	0.11
tblVehicleEF	SBUS	9.3510e-003	0.04
tblVehicleEF	SBUS	0.30	0.03
tblVehicleEF	SBUS	0.84	0.04
tblVehicleEF	SBUS	0.01	6.9390e-003
tblVehicleEF	SBUS	0.06	3.3780e-003
tblVehicleEF	SBUS	5.56	1.86
tblVehicleEF	SBUS	0.66	0.59
tblVehicleEF	SBUS	3.65	0.39
tblVehicleEF	SBUS	1,322.00	344.13
tblVehicleEF	SBUS	1,136.31	1,128.74
tblVehicleEF	SBUS	37.11	2.94
tblVehicleEF	SBUS	12.08	3.42
tblVehicleEF	SBUS	4.47	4.75
tblVehicleEF	SBUS	0.01	3.4090e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.03	0.03
tblVehicleEF	SBUS	5.1700e-004	3.0000e-005
tblVehicleEF	SBUS	9.6490e-003	3.2620e-003

tblVehicleEF	SBUS	2.7560e-003	2.7660e-003
tblVehicleEF	SBUS	0.03	0.03
tblVehicleEF	SBUS	4.7500e-004	2.8000e-005
tblVehicleEF	SBUS	5.6170e-003	1.3280e-003
tblVehicleEF	SBUS	0.02	5.8520e-003
tblVehicleEF	SBUS	0.67	0.20
tblVehicleEF	SBUS	2.8800e-003	6.7400e-004
tblVehicleEF	SBUS	0.11	0.10
tblVehicleEF	SBUS	8.5310e-003	0.03
tblVehicleEF	SBUS	0.22	0.02
tblVehicleEF	SBUS	0.01	3.2700e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	4.3500e-004	2.9000e-005
tblVehicleEF	SBUS	5.6170e-003	1.3280e-003
tblVehicleEF	SBUS	0.02	5.8520e-003
tblVehicleEF	SBUS	0.97	0.28
tblVehicleEF	SBUS	2.8800e-003	6.7400e-004
tblVehicleEF	SBUS	0.13	0.12
tblVehicleEF	SBUS	8.5310e-003	0.03
tblVehicleEF	SBUS	0.24	0.02
tblVehicleEF	SBUS	0.84	0.04
tblVehicleEF	SBUS	0.01	6.8510e-003
tblVehicleEF	SBUS	0.07	4.1760e-003
tblVehicleEF	SBUS	5.91	1.95
tblVehicleEF	SBUS	0.65	0.58
tblVehicleEF	SBUS	5.37	0.57
tblVehicleEF	SBUS	1,169.92	325.30

tblVehicleEF	SBUS	1,136.31	1,128.72
tblVehicleEF	SBUS	37.11	3.24
tblVehicleEF	SBUS	11.19	3.26
tblVehicleEF	SBUS	4.69	4.99
tblVehicleEF	SBUS	0.01	4.8980e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.03	0.03
tblVehicleEF	SBUS	5.1700e-004	3.0000e-005
tblVehicleEF	SBUS	0.01	4.6860e-003
tblVehicleEF	SBUS	2.7560e-003	2.7660e-003
tblVehicleEF	SBUS	0.03	0.03
tblVehicleEF	SBUS	4.7500e-004	2.8000e-005
tblVehicleEF	SBUS	2.9580e-003	7.2600e-004
tblVehicleEF	SBUS	0.02	5.8800e-003
tblVehicleEF	SBUS	0.68	0.20
tblVehicleEF	SBUS	1.2820e-003	3.5300e-004
tblVehicleEF	SBUS	0.11	0.10
tblVehicleEF	SBUS	0.01	0.05
tblVehicleEF	SBUS	0.28	0.02
tblVehicleEF	SBUS	0.01	3.0930e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	4.6400e-004	3.2000e-005
tblVehicleEF	SBUS	2.9580e-003	7.2600e-004
tblVehicleEF	SBUS	0.02	5.8800e-003
tblVehicleEF	SBUS	0.98	0.28
tblVehicleEF	SBUS	1.2820e-003	3.5300e-004
tblVehicleEF	SBUS	0.13	0.11

tblVehicleEF	SBUS	0.01	0.05
tblVehicleEF	SBUS	0.31	0.03
tblVehicleEF	UBUS	1.83	4.19
tblVehicleEF	UBUS	0.08	0.02
tblVehicleEF	UBUS	9.26	32.67
tblVehicleEF	UBUS	14.34	1.43
tblVehicleEF	UBUS	1,846.39	1,724.94
tblVehicleEF	UBUS	136.37	16.90
tblVehicleEF	UBUS	5.87	0.37
tblVehicleEF	UBUS	0.52	0.08
tblVehicleEF	UBUS	0.01	0.03
tblVehicleEF	UBUS	0.07	2.6830e-003
tblVehicleEF	UBUS	1.4030e-003	1.8900e-004
tblVehicleEF	UBUS	0.22	0.03
tblVehicleEF	UBUS	3.0000e-003	6.3130e-003
tblVehicleEF	UBUS	0.06	2.5510e-003
tblVehicleEF	UBUS	1.2900e-003	1.7400e-004
tblVehicleEF	UBUS	8.0860e-003	1.5320e-003
tblVehicleEF	UBUS	0.11	8.4710e-003
tblVehicleEF	UBUS	3.9450e-003	6.5200e-004
tblVehicleEF	UBUS	0.61	0.06
tblVehicleEF	UBUS	0.02	0.04
tblVehicleEF	UBUS	1.15	0.06
tblVehicleEF	UBUS	0.01	3.8820e-003
tblVehicleEF	UBUS	1.6240e-003	1.6700e-004
tblVehicleEF	UBUS	8.0860e-003	1.5320e-003
tblVehicleEF	UBUS	0.11	8.4710e-003

tblVehicleEF	UBUS	3.9450e-003	6.5200e-004
tblVehicleEF	UBUS	2.50	4.28
tblVehicleEF	UBUS	0.02	0.04
tblVehicleEF	UBUS	1.25	0.07
tblVehicleEF	UBUS	1.83	4.19
tblVehicleEF	UBUS	0.08	0.01
tblVehicleEF	UBUS	9.36	32.67
tblVehicleEF	UBUS	11.74	1.17
tblVehicleEF	UBUS	1,846.39	1,724.94
tblVehicleEF	UBUS	136.37	16.47
tblVehicleEF	UBUS	5.45	0.37
tblVehicleEF	UBUS	0.52	0.08
tblVehicleEF	UBUS	0.01	0.03
tblVehicleEF	UBUS	0.07	2.6830e-003
tblVehicleEF	UBUS	1.4030e-003	1.8900e-004
tblVehicleEF	UBUS	0.22	0.03
tblVehicleEF	UBUS	3.0000e-003	6.3130e-003
tblVehicleEF	UBUS	0.06	2.5510e-003
tblVehicleEF	UBUS	1.2900e-003	1.7400e-004
tblVehicleEF	UBUS	0.02	2.9020e-003
tblVehicleEF	UBUS	0.14	0.01
tblVehicleEF	UBUS	9.3320e-003	1.4770e-003
tblVehicleEF	UBUS	0.62	0.06
tblVehicleEF	UBUS	0.02	0.04
tblVehicleEF	UBUS	1.02	0.06
tblVehicleEF	UBUS	0.01	3.8820e-003
tblVehicleEF	UBUS	1.5790e-003	1.6300e-004

tblVehicleEF	UBUS	0.02	2.9020e-003
tblVehicleEF	UBUS	0.14	0.01
tblVehicleEF	UBUS	9.3320e-003	1.4770e-003
tblVehicleEF	UBUS	2.52	4.28
tblVehicleEF	UBUS	0.02	0.04
tblVehicleEF	UBUS	1.12	0.06
tblVehicleEF	UBUS	1.83	4.19
tblVehicleEF	UBUS	0.08	0.02
tblVehicleEF	UBUS	9.27	32.67
tblVehicleEF	UBUS	13.86	1.39
tblVehicleEF	UBUS	1,846.39	1,724.94
tblVehicleEF	UBUS	136.37	16.85
tblVehicleEF	UBUS	5.76	0.37
tblVehicleEF	UBUS	0.52	0.08
tblVehicleEF	UBUS	0.01	0.03
tblVehicleEF	UBUS	0.07	2.6830e-003
tblVehicleEF	UBUS	1.4030e-003	1.8900e-004
tblVehicleEF	UBUS	0.22	0.03
tblVehicleEF	UBUS	3.0000e-003	6.3130e-003
tblVehicleEF	UBUS	0.06	2.5510e-003
tblVehicleEF	UBUS	1.2900e-003	1.7400e-004
tblVehicleEF	UBUS	9.2250e-003	1.6220e-003
tblVehicleEF	UBUS	0.14	9.7130e-003
tblVehicleEF	UBUS	4.1190e-003	6.4800e-004
tblVehicleEF	UBUS	0.61	0.06
tblVehicleEF	UBUS	0.03	0.04
tblVehicleEF	UBUS	1.13	0.06

tblVehicleEF	UBUS	0.01	3.8820e-003
tblVehicleEF	UBUS	1.6160e-003	1.6700e-004
tblVehicleEF	UBUS	9.2250e-003	1.6220e-003
tblVehicleEF	UBUS	0.14	9.7130e-003
tblVehicleEF	UBUS	4.1190e-003	6.4800e-004
tblVehicleEF	UBUS	2.50	4.28
tblVehicleEF	UBUS	0.03	0.04
tblVehicleEF	UBUS	1.24	0.07
tblVehicleTrips	CNW_TTP	41.00	0.00
tblVehicleTrips	CW_TL	16.60	14.00
tblVehicleTrips	CW_TTP	59.00	100.00
tblVehicleTrips	DV_TP	5.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PR_TP	92.00	100.00
tblVehicleTrips	ST_TR	1.68	0.64
tblVehicleTrips	SU_TR	1.68	0.59
tblVehicleTrips	WD_TR	1.68	0.95

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2021	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Maximum	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2021	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Maximum	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	17.1751	1.5900e-003	0.1746	1.0000e-005		6.2000e-004	6.2000e-004		6.2000e-004	6.2000e-004		0.3736	0.3736	9.9000e-004		0.3982
Energy	0.0319	0.2898	0.2434	1.7400e-003		0.0220	0.0220		0.0220	0.0220		347.7207	347.7207	6.6600e-003	6.3700e-003	349.7870
Mobile	1.9831	1.4501	25.0724	0.0713	7.6155	0.0366	7.6520	2.0188	0.0337	2.0525		7,210.6151	7,210.6151	0.1701		7,214.8675
Offroad	0.3661	3.8029	2.2758	9.5100e-003		0.1312	0.1312		0.1207	0.1207		920.3632	920.3632	0.2977		927.8048
Total	**19.5561**	**5.5443**	**27.7661**	**0.0826**	**7.6155**	**0.1904**	**7.8059**	**2.0188**	**0.1770**	**2.1958**		**8,479.0726**	**8,479.0726**	**0.4754**	**6.3700e-003**	**8,492.8575**

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	17.1751	1.5900e-003	0.1746	1.0000e-005		6.2000e-004	6.2000e-004		6.2000e-004	6.2000e-004		0.3736	0.3736	9.9000e-004		0.3982
Energy	0.0319	0.2898	0.2434	1.7400e-003		0.0220	0.0220		0.0220	0.0220		347.7207	347.7207	6.6600e-003	6.3700e-003	349.7870
Mobile	1.9831	1.4501	25.0724	0.0713	7.6155	0.0366	7.6520	2.0188	0.0337	2.0525		7,210.6151	7,210.6151	0.1701		7,214.8675
Offroad	0.3661	3.8029	2.2758	9.5100e-003		0.1312	0.1312		0.1207	0.1207		920.3632	920.3632	0.2977		927.8048
Total	**19.5561**	**5.5443**	**27.7661**	**0.0826**	**7.6155**	**0.1904**	**7.8059**	**2.0188**	**0.1770**	**2.1958**		**8,479.0726**	**8,479.0726**	**0.4754**	**6.3700e-003**	**8,492.8575**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	6/1/2021	5/31/2021	5	0	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 16.3

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	0	8.00	81	0.73
Demolition	Excavators	0	8.00	158	0.38
Demolition	Rubber Tired Dozers	0	8.00	247	0.40

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	0	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Demolition - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

3.2 Demolition - 2021

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	1.9831	1.4501	25.0724	0.0713	7.6155	0.0366	7.6520	2.0188	0.0337	2.0525		7,210.6151	7,210.6151	0.1701		7,214.8675
Unmitigated	1.9831	1.4501	25.0724	0.0713	7.6155	0.0366	7.6520	2.0188	0.0337	2.0525		7,210.6151	7,210.6151	0.1701		7,214.8675

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Other Asphalt Surfaces	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Unrefrigerated Warehouse-No Rail	716.01	479.88	444.20	3,278,998	3,278,998
Total	716.01	479.88	444.20	3,278,998	3,278,998

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Other Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Other Non-Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Parking Lot	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Unrefrigerated Warehouse-No	14.00	8.40	6.90	100.00	0.00	0.00	100	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Other Asphalt Surfaces	0.553113	0.036408	0.180286	0.116335	0.016165	0.005101	0.018218	0.063797	0.001357	0.001565	0.005903	0.000808	0.000944
Other Non-Asphalt Surfaces	0.553113	0.036408	0.180286	0.116335	0.016165	0.005101	0.018218	0.063797	0.001357	0.001565	0.005903	0.000808	0.000944
Parking Lot	0.553113	0.036408	0.180286	0.116335	0.016165	0.005101	0.018218	0.063797	0.001357	0.001565	0.005903	0.000808	0.000944
Unrefrigerated Warehouse-No Rail	0.624200	0.041100	0.203500	0.131200	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.0319	0.2898	0.2434	1.7400e-003		0.0220	0.0220		0.0220	0.0220		347.7207	347.7207	6.6600e-003	6.3700e-003	349.7870
NaturalGas Unmitigated	0.0319	0.2898	0.2434	1.7400e-003		0.0220	0.0220		0.0220	0.0220		347.7207	347.7207	6.6600e-003	6.3700e-003	349.7870

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	2955.63	0.0319	0.2898	0.2434	1.7400e-003		0.0220	0.0220		0.0220	0.0220		347.7207	347.7207	6.6600e-003	6.3700e-003	349.7870
Total		**0.0319**	**0.2898**	**0.2434**	**1.7400e-003**		**0.0220**	**0.0220**		**0.0220**	**0.0220**		**347.7207**	**347.7207**	**6.6600e-003**	**6.3700e-003**	**349.7870**

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	2.95563	0.0319	0.2898	0.2434	1.7400e-003		0.0220	0.0220		0.0220	0.0220		347.7207	347.7207	6.6600e-003	6.3700e-003	349.7870
Total		**0.0319**	**0.2898**	**0.2434**	**1.7400e-003**		**0.0220**	**0.0220**		**0.0220**	**0.0220**		**347.7207**	**347.7207**	**6.6600e-003**	**6.3700e-003**	**349.7870**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	17.1751	1.5900e-003	0.1746	1.0000e-005		6.2000e-004	6.2000e-004		6.2000e-004	6.2000e-004		0.3736	0.3736	9.9000e-004		0.3982
Unmitigated	17.1751	1.5900e-003	0.1746	1.0000e-005		6.2000e-004	6.2000e-004		6.2000e-004	6.2000e-004		0.3736	0.3736	9.9000e-004		0.3982

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	1.9701					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	15.1888					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0162	1.5900e-003	0.1746	1.0000e-005		6.2000e-004	6.2000e-004		6.2000e-004	6.2000e-004		0.3736	0.3736	9.9000e-004		0.3982
Total	**17.1751**	**1.5900e-003**	**0.1746**	**1.0000e-005**		**6.2000e-004**	**6.2000e-004**		**6.2000e-004**	**6.2000e-004**		**0.3736**	**0.3736**	**9.9000e-004**		**0.3982**

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	1.9701					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	15.1888					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0162	1.5900e-003	0.1746	1.0000e-005		6.2000e-004	6.2000e-004		6.2000e-004	6.2000e-004		0.3736	0.3736	9.9000e-004		0.3982
Total	**17.1751**	**1.5900e-003**	**0.1746**	**1.0000e-005**		**6.2000e-004**	**6.2000e-004**		**6.2000e-004**	**6.2000e-004**		**0.3736**	**0.3736**	**9.9000e-004**		**0.3982**

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
Tractors/Loaders/Backhoes	3	4.00	365	200	0.37	CNG

UnMitigated/Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Equipment Type	lb/day										lb/day					
Tractors/Loaders/ Backhoes	0.3661	3.8029	2.2758	9.5100e-003		0.1312	0.1312		0.1207	0.1207		920.3632	920.3632	0.2977		927.8048
Total	**0.3661**	**3.8029**	**2.2758**	**9.5100e-003**		**0.1312**	**0.1312**		**0.1207**	**0.1207**		**920.3632**	**920.3632**	**0.2977**		**927.8048**

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

Fontana Foothill Commerce Center (Operations - Passenger Cars)

San Bernardino-South Coast County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Unrefrigerated Warehouse-No Rail	754.41	1000sqft	17.32	754,408.00	0
Other Asphalt Surfaces	415.94	1000sqft	9.55	415,944.00	0
Other Non-Asphalt Surfaces	132.59	1000sqft	3.04	132,592.00	0
Parking Lot	404.00	Space	3.71	161,600.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	32
Climate Zone	10			**Operational Year**	2022
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	702.44	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Fontana Foothill Commerce Center (Operations - Passenger Cars) - San Bernardino-South Coast County, Winter

Project Characteristics -

Land Use - Unrefrigerated Warehouse - No Rail = High-Cube Short-Term Warehouse; Parking Lot = 404 Standard Spaces; Other Non-Asphalt Surfaces = Landscape area; Other Asphalt Surfaces = Balance

Construction Phase - Operations Run Only.

Off-road Equipment - Operations Run Only.

Trips and VMT - Operations Run Only.

Vehicle Trips - Trip Characteristics based on information provided in the Fontana Foothills Commcerce Center Traffic Impact Analysis report by Urban Crossroads, Inc.

Energy Use - The Project will design building shells and building components to meet 2019 Title 24 Standards which expects 30% less energy for nonresidential uses.

Operational Off-Road Equipment - Based on SCAQMD High Cube Warehouse Truck Trip Study White Paper Summary of Busniess Survey Results (2014)

Fleet Mix - Passenger Car Fleet Mix estimated based on the ratio of the vehicle classes in CalEEMod default fleet mix.

Vehicle Emission Factors - EMFAC2017

Vehicle Emission Factors - EMFAC2017

Vehicle Emission Factors - EMFAC2017

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	30.00	0.00
tblEnergyUse	LightingElect	1.17	0.82
tblEnergyUse	T24E	0.37	0.26
tblEnergyUse	T24NG	2.00	1.40
tblFleetMix	HHD	0.06	0.00
tblFleetMix	LDA	0.55	0.62
tblFleetMix	LDT1	0.04	0.04
tblFleetMix	LDT2	0.18	0.20
tblFleetMix	LHD1	0.02	0.00
tblFleetMix	LHD2	5.1010e-003	0.00
tblFleetMix	MCY	5.9030e-003	0.00
tblFleetMix	MDV	0.12	0.13

tblFleetMix	MH	9.4400e-004	0.00
tblFleetMix	MHD	0.02	0.00
tblFleetMix	OBUS	1.3570e-003	0.00
tblFleetMix	SBUS	8.0800e-004	0.00
tblFleetMix	UBUS	1.5650e-003	0.00
tblLandUse	LotAcreage	3.64	3.71
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOperationalOffRoadEquipment	OperDaysPerYear	260.00	365.00
tblOperationalOffRoadEquipment	OperFuelType	Diesel	CNG
tblOperationalOffRoadEquipment	OperHorsePower	97.00	200.00
tblOperationalOffRoadEquipment	OperHoursPerDay	8.00	4.00
tblOperationalOffRoadEquipment	OperOffRoadEquipmentNumber	0.00	3.00
tblVehicleEF	HHD	1.21	0.03
tblVehicleEF	HHD	0.04	0.06
tblVehicleEF	HHD	0.10	0.00
tblVehicleEF	HHD	3.29	8.22
tblVehicleEF	HHD	0.57	0.40
tblVehicleEF	HHD	1.82	2.2600e-003
tblVehicleEF	HHD	6,933.41	1,478.27
tblVehicleEF	HHD	1,475.79	1,372.23
tblVehicleEF	HHD	5.54	0.02
tblVehicleEF	HHD	26.50	7.64
tblVehicleEF	HHD	2.50	2.77
tblVehicleEF	HHD	9.7780e-003	3.7640e-003
tblVehicleEF	HHD	0.06	0.06

tblVehicleEF	HHD	0.04	0.04
tblVehicleEF	HHD	0.01	0.03
tblVehicleEF	HHD	5.1000e-005	1.0000e-006
tblVehicleEF	HHD	9.3550e-003	3.6010e-003
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	8.8810e-003	8.9170e-003
tblVehicleEF	HHD	0.01	0.03
tblVehicleEF	HHD	4.7000e-005	1.0000e-006
tblVehicleEF	HHD	8.5000e-005	3.0000e-006
tblVehicleEF	HHD	3.1910e-003	1.0400e-004
tblVehicleEF	HHD	0.84	0.59
tblVehicleEF	HHD	5.2000e-005	2.0000e-006
tblVehicleEF	HHD	0.08	0.05
tblVehicleEF	HHD	2.1700e-004	5.2200e-004
tblVehicleEF	HHD	0.05	1.0000e-006
tblVehicleEF	HHD	0.07	0.01
tblVehicleEF	HHD	0.01	0.01
tblVehicleEF	HHD	8.6000e-005	0.00
tblVehicleEF	HHD	8.5000e-005	3.0000e-006
tblVehicleEF	HHD	3.1910e-003	1.0400e-004
tblVehicleEF	HHD	0.97	0.67
tblVehicleEF	HHD	5.2000e-005	2.0000e-006
tblVehicleEF	HHD	0.13	0.12
tblVehicleEF	HHD	2.1700e-004	5.2200e-004
tblVehicleEF	HHD	0.06	1.0000e-006
tblVehicleEF	HHD	1.14	0.03
tblVehicleEF	HHD	0.04	0.06

tblVehicleEF	HHD	0.09	0.00
tblVehicleEF	HHD	2.39	8.07
tblVehicleEF	HHD	0.57	0.40
tblVehicleEF	HHD	1.70	2.1220e-003
tblVehicleEF	HHD	7,345.18	1,469.16
tblVehicleEF	HHD	1,475.79	1,372.23
tblVehicleEF	HHD	5.54	0.02
tblVehicleEF	HHD	27.35	7.37
tblVehicleEF	HHD	2.36	2.60
tblVehicleEF	HHD	8.2750e-003	3.3440e-003
tblVehicleEF	HHD	0.06	0.06
tblVehicleEF	HHD	0.04	0.04
tblVehicleEF	HHD	0.01	0.03
tblVehicleEF	HHD	5.1000e-005	1.0000e-006
tblVehicleEF	HHD	7.9170e-003	3.2000e-003
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	8.8810e-003	8.9170e-003
tblVehicleEF	HHD	0.01	0.03
tblVehicleEF	HHD	4.7000e-005	1.0000e-006
tblVehicleEF	HHD	1.6800e-004	7.0000e-006
tblVehicleEF	HHD	3.5970e-003	1.2200e-004
tblVehicleEF	HHD	0.79	0.62
tblVehicleEF	HHD	1.1700e-004	5.0000e-006
tblVehicleEF	HHD	0.08	0.05
tblVehicleEF	HHD	2.2100e-004	5.3900e-004
tblVehicleEF	HHD	0.05	1.0000e-006
tblVehicleEF	HHD	0.07	0.01

tblVehicleEF	HHD	0.01	0.01
tblVehicleEF	HHD	8.4000e-005	0.00
tblVehicleEF	HHD	1.6800e-004	7.0000e-006
tblVehicleEF	HHD	3.5970e-003	1.2200e-004
tblVehicleEF	HHD	0.91	0.71
tblVehicleEF	HHD	1.1700e-004	5.0000e-006
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tblVehicleEF	HHD	2.2100e-004	5.3900e-004
tblVehicleEF	HHD	0.06	1.0000e-006
tblVehicleEF	HHD	1.31	0.03
tblVehicleEF	HHD	0.04	2.3610e-003
tblVehicleEF	HHD	0.10	0.00
tblVehicleEF	HHD	4.53	8.37
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tblVehicleEF	HHD	1,475.79	1,332.53
tblVehicleEF	HHD	5.54	0.02
tblVehicleEF	HHD	25.32	7.94
tblVehicleEF	HHD	2.46	2.69
tblVehicleEF	HHD	0.01	4.1670e-003
tblVehicleEF	HHD	0.06	0.06
tblVehicleEF	HHD	0.04	0.04
tblVehicleEF	HHD	0.01	0.03
tblVehicleEF	HHD	5.1000e-005	1.0000e-006
tblVehicleEF	HHD	0.01	3.9860e-003
tblVehicleEF	HHD	0.03	0.03

tblVehicleEF	HHD	8.8810e-003	8.8160e-003
tblVehicleEF	HHD	0.01	0.03
tblVehicleEF	HHD	4.7000e-005	1.0000e-006
tblVehicleEF	HHD	8.5000e-005	4.0000e-006
tblVehicleEF	HHD	3.4760e-003	1.2300e-004
tblVehicleEF	HHD	0.91	0.54
tblVehicleEF	HHD	5.2000e-005	2.0000e-006
tblVehicleEF	HHD	0.08	0.05
tblVehicleEF	HHD	2.3300e-004	5.4600e-004
tblVehicleEF	HHD	0.05	1.0000e-006
tblVehicleEF	HHD	0.06	0.01
tblVehicleEF	HHD	0.01	0.01
tblVehicleEF	HHD	8.5000e-005	0.00
tblVehicleEF	HHD	8.5000e-005	4.0000e-006
tblVehicleEF	HHD	3.4760e-003	1.2300e-004
tblVehicleEF	HHD	1.05	0.62
tblVehicleEF	HHD	5.2000e-005	2.0000e-006
tblVehicleEF	HHD	0.13	0.06
tblVehicleEF	HHD	2.3300e-004	5.4600e-004
tblVehicleEF	HHD	0.06	1.0000e-006
tblVehicleEF	LDA	4.2030e-003	2.4360e-003
tblVehicleEF	LDA	5.6230e-003	0.05
tblVehicleEF	LDA	0.57	0.65
tblVehicleEF	LDA	1.19	2.16
tblVehicleEF	LDA	251.29	261.47
tblVehicleEF	LDA	57.15	53.86
tblVehicleEF	LDA	0.05	0.04

tblVehicleEF	LDA	1.6780e-003	1.4470e-003
tblVehicleEF	LDA	2.2790e-003	1.8580e-003
tblVehicleEF	LDA	1.5460e-003	1.3330e-003
tblVehicleEF	LDA	2.0960e-003	1.7080e-003
tblVehicleEF	LDA	0.04	0.06
tblVehicleEF	LDA	0.10	0.10
tblVehicleEF	LDA	0.03	0.05
tblVehicleEF	LDA	0.01	9.3320e-003
tblVehicleEF	LDA	0.03	0.21
tblVehicleEF	LDA	0.08	0.23
tblVehicleEF	LDA	2.5170e-003	2.5870e-003
tblVehicleEF	LDA	5.9200e-004	5.3300e-004
tblVehicleEF	LDA	0.04	0.06
tblVehicleEF	LDA	0.10	0.10
tblVehicleEF	LDA	0.03	0.05
tblVehicleEF	LDA	0.02	0.01
tblVehicleEF	LDA	0.03	0.21
tblVehicleEF	LDA	0.08	0.25
tblVehicleEF	LDA	4.7900e-003	2.7940e-003
tblVehicleEF	LDA	4.6890e-003	0.04
tblVehicleEF	LDA	0.71	0.79
tblVehicleEF	LDA	0.99	1.79
tblVehicleEF	LDA	274.94	285.54
tblVehicleEF	LDA	57.15	53.16
tblVehicleEF	LDA	0.05	0.04
tblVehicleEF	LDA	1.6780e-003	1.4470e-003
tblVehicleEF	LDA	2.2790e-003	1.8580e-003

tblVehicleEF	LDA	1.5460e-003	1.3330e-003
tblVehicleEF	LDA	2.0960e-003	1.7080e-003
tblVehicleEF	LDA	0.09	0.12
tblVehicleEF	LDA	0.12	0.12
tblVehicleEF	LDA	0.07	0.10
tblVehicleEF	LDA	0.01	0.01
tblVehicleEF	LDA	0.03	0.21
tblVehicleEF	LDA	0.06	0.19
tblVehicleEF	LDA	2.7550e-003	2.8250e-003
tblVehicleEF	LDA	5.8800e-004	5.2600e-004
tblVehicleEF	LDA	0.09	0.12
tblVehicleEF	LDA	0.12	0.12
tblVehicleEF	LDA	0.07	0.10
tblVehicleEF	LDA	0.02	0.02
tblVehicleEF	LDA	0.03	0.21
tblVehicleEF	LDA	0.07	0.21
tblVehicleEF	LDA	4.0860e-003	2.3760e-003
tblVehicleEF	LDA	5.5870e-003	0.05
tblVehicleEF	LDA	0.54	0.61
tblVehicleEF	LDA	1.18	2.12
tblVehicleEF	LDA	245.70	255.84
tblVehicleEF	LDA	57.15	53.80
tblVehicleEF	LDA	0.05	0.04
tblVehicleEF	LDA	1.6780e-003	1.4470e-003
tblVehicleEF	LDA	2.2790e-003	1.8580e-003
tblVehicleEF	LDA	1.5460e-003	1.3330e-003
tblVehicleEF	LDA	2.0960e-003	1.7080e-003

tblVehicleEF	LDA	0.05	0.06
tblVehicleEF	LDA	0.11	0.11
tblVehicleEF	LDA	0.03	0.05
tblVehicleEF	LDA	0.01	9.0880e-003
tblVehicleEF	LDA	0.04	0.24
tblVehicleEF	LDA	0.08	0.23
tblVehicleEF	LDA	2.4600e-003	2.5310e-003
tblVehicleEF	LDA	5.9100e-004	5.3200e-004
tblVehicleEF	LDA	0.05	0.06
tblVehicleEF	LDA	0.11	0.11
tblVehicleEF	LDA	0.03	0.05
tblVehicleEF	LDA	0.01	0.01
tblVehicleEF	LDA	0.04	0.24
tblVehicleEF	LDA	0.08	0.25
tblVehicleEF	LDT1	0.01	7.0610e-003
tblVehicleEF	LDT1	0.02	0.08
tblVehicleEF	LDT1	1.54	1.44
tblVehicleEF	LDT1	3.61	2.44
tblVehicleEF	LDT1	313.68	310.02
tblVehicleEF	LDT1	70.93	65.50
tblVehicleEF	LDT1	0.16	0.13
tblVehicleEF	LDT1	2.7050e-003	2.1940e-003
tblVehicleEF	LDT1	3.6920e-003	2.8520e-003
tblVehicleEF	LDT1	2.4910e-003	2.0190e-003
tblVehicleEF	LDT1	3.3960e-003	2.6220e-003
tblVehicleEF	LDT1	0.18	0.19
tblVehicleEF	LDT1	0.33	0.26

tblVehicleEF	LDT1	0.13	0.13
tblVehicleEF	LDT1	0.03	0.03
tblVehicleEF	LDT1	0.20	0.88
tblVehicleEF	LDT1	0.26	0.43
tblVehicleEF	LDT1	3.1570e-003	3.0680e-003
tblVehicleEF	LDT1	7.7300e-004	6.4800e-004
tblVehicleEF	LDT1	0.18	0.19
tblVehicleEF	LDT1	0.33	0.26
tblVehicleEF	LDT1	0.13	0.13
tblVehicleEF	LDT1	0.05	0.05
tblVehicleEF	LDT1	0.20	0.88
tblVehicleEF	LDT1	0.28	0.48
tblVehicleEF	LDT1	0.02	8.0100e-003
tblVehicleEF	LDT1	0.02	0.07
tblVehicleEF	LDT1	1.85	1.74
tblVehicleEF	LDT1	2.97	2.02
tblVehicleEF	LDT1	341.75	335.16
tblVehicleEF	LDT1	70.93	64.59
tblVehicleEF	LDT1	0.14	0.12
tblVehicleEF	LDT1	2.7050e-003	2.1940e-003
tblVehicleEF	LDT1	3.6920e-003	2.8520e-003
tblVehicleEF	LDT1	2.4910e-003	2.0190e-003
tblVehicleEF	LDT1	3.3960e-003	2.6220e-003
tblVehicleEF	LDT1	0.37	0.40
tblVehicleEF	LDT1	0.41	0.33
tblVehicleEF	LDT1	0.27	0.29
tblVehicleEF	LDT1	0.04	0.04

tblVehicleEF	LDT1	0.20	0.88
tblVehicleEF	LDT1	0.21	0.36
tblVehicleEF	LDT1	3.4420e-003	3.3170e-003
tblVehicleEF	LDT1	7.6200e-004	6.3900e-004
tblVehicleEF	LDT1	0.37	0.40
tblVehicleEF	LDT1	0.41	0.33
tblVehicleEF	LDT1	0.27	0.29
tblVehicleEF	LDT1	0.06	0.05
tblVehicleEF	LDT1	0.20	0.88
tblVehicleEF	LDT1	0.23	0.40
tblVehicleEF	LDT1	0.01	6.8960e-003
tblVehicleEF	LDT1	0.02	0.08
tblVehicleEF	LDT1	1.47	1.37
tblVehicleEF	LDT1	3.55	2.40
tblVehicleEF	LDT1	307.06	304.06
tblVehicleEF	LDT1	70.93	65.42
tblVehicleEF	LDT1	0.15	0.12
tblVehicleEF	LDT1	2.7050e-003	2.1940e-003
tblVehicleEF	LDT1	3.6920e-003	2.8520e-003
tblVehicleEF	LDT1	2.4910e-003	2.0190e-003
tblVehicleEF	LDT1	3.3960e-003	2.6220e-003
tblVehicleEF	LDT1	0.19	0.20
tblVehicleEF	LDT1	0.39	0.30
tblVehicleEF	LDT1	0.12	0.12
tblVehicleEF	LDT1	0.03	0.03
tblVehicleEF	LDT1	0.23	1.03
tblVehicleEF	LDT1	0.25	0.43

tblVehicleEF	LDT1	3.0890e-003	3.0090e-003
tblVehicleEF	LDT1	7.7200e-004	6.4700e-004
tblVehicleEF	LDT1	0.19	0.20
tblVehicleEF	LDT1	0.39	0.30
tblVehicleEF	LDT1	0.12	0.12
tblVehicleEF	LDT1	0.05	0.04
tblVehicleEF	LDT1	0.23	1.03
tblVehicleEF	LDT1	0.28	0.47
tblVehicleEF	LDT2	6.3270e-003	4.2800e-003
tblVehicleEF	LDT2	8.1990e-003	0.07
tblVehicleEF	LDT2	0.80	0.97
tblVehicleEF	LDT2	1.67	2.78
tblVehicleEF	LDT2	351.15	331.49
tblVehicleEF	LDT2	79.39	70.30
tblVehicleEF	LDT2	0.09	0.09
tblVehicleEF	LDT2	1.7270e-003	1.5180e-003
tblVehicleEF	LDT2	2.4170e-003	1.9480e-003
tblVehicleEF	LDT2	1.5880e-003	1.3970e-003
tblVehicleEF	LDT2	2.2220e-003	1.7910e-003
tblVehicleEF	LDT2	0.06	0.10
tblVehicleEF	LDT2	0.13	0.15
tblVehicleEF	LDT2	0.05	0.08
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.07	0.48
tblVehicleEF	LDT2	0.11	0.35
tblVehicleEF	LDT2	3.5180e-003	3.2800e-003
tblVehicleEF	LDT2	8.2200e-004	6.9600e-004

tblVehicleEF	LDT2	0.06	0.10
tblVehicleEF	LDT2	0.13	0.15
tblVehicleEF	LDT2	0.05	0.08
tblVehicleEF	LDT2	0.02	0.03
tblVehicleEF	LDT2	0.07	0.48
tblVehicleEF	LDT2	0.12	0.38
tblVehicleEF	LDT2	7.1840e-003	4.8870e-003
tblVehicleEF	LDT2	6.8290e-003	0.06
tblVehicleEF	LDT2	0.97	1.18
tblVehicleEF	LDT2	1.38	2.30
tblVehicleEF	LDT2	383.36	355.94
tblVehicleEF	LDT2	79.39	69.35
tblVehicleEF	LDT2	0.08	0.08
tblVehicleEF	LDT2	1.7270e-003	1.5180e-003
tblVehicleEF	LDT2	2.4170e-003	1.9480e-003
tblVehicleEF	LDT2	1.5880e-003	1.3970e-003
tblVehicleEF	LDT2	2.2220e-003	1.7910e-003
tblVehicleEF	LDT2	0.13	0.21
tblVehicleEF	LDT2	0.15	0.18
tblVehicleEF	LDT2	0.11	0.18
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.07	0.48
tblVehicleEF	LDT2	0.09	0.29
tblVehicleEF	LDT2	3.8420e-003	3.5220e-003
tblVehicleEF	LDT2	8.1700e-004	6.8600e-004
tblVehicleEF	LDT2	0.13	0.21
tblVehicleEF	LDT2	0.15	0.18

tblVehicleEF	LDT2	0.11	0.18
tblVehicleEF	LDT2	0.03	0.03
tblVehicleEF	LDT2	0.07	0.48
tblVehicleEF	LDT2	0.10	0.32
tblVehicleEF	LDT2	6.1560e-003	4.1770e-003
tblVehicleEF	LDT2	8.1410e-003	0.07
tblVehicleEF	LDT2	0.75	0.92
tblVehicleEF	LDT2	1.64	2.74
tblVehicleEF	LDT2	343.55	325.69
tblVehicleEF	LDT2	79.39	70.22
tblVehicleEF	LDT2	0.08	0.09
tblVehicleEF	LDT2	1.7270e-003	1.5180e-003
tblVehicleEF	LDT2	2.4170e-003	1.9480e-003
tblVehicleEF	LDT2	1.5880e-003	1.3970e-003
tblVehicleEF	LDT2	2.2220e-003	1.7910e-003
tblVehicleEF	LDT2	0.06	0.10
tblVehicleEF	LDT2	0.14	0.16
tblVehicleEF	LDT2	0.05	0.08
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.08	0.56
tblVehicleEF	LDT2	0.11	0.35
tblVehicleEF	LDT2	3.4410e-003	3.2220e-003
tblVehicleEF	LDT2	8.2200e-004	6.9500e-004
tblVehicleEF	LDT2	0.06	0.10
tblVehicleEF	LDT2	0.14	0.16
tblVehicleEF	LDT2	0.05	0.08
tblVehicleEF	LDT2	0.02	0.03

tblVehicleEF	LDT2	0.08	0.56
tblVehicleEF	LDT2	0.12	0.38
tblVehicleEF	LHD1	5.2170e-003	4.8640e-003
tblVehicleEF	LHD1	0.01	6.5090e-003
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	0.14	0.17
tblVehicleEF	LHD1	1.07	0.88
tblVehicleEF	LHD1	2.60	1.03
tblVehicleEF	LHD1	9.23	9.35
tblVehicleEF	LHD1	609.20	648.62
tblVehicleEF	LHD1	30.40	10.79
tblVehicleEF	LHD1	0.09	0.08
tblVehicleEF	LHD1	2.12	1.54
tblVehicleEF	LHD1	9.6500e-004	9.5300e-004
tblVehicleEF	LHD1	0.01	9.9680e-003
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	9.5800e-004	2.6300e-004
tblVehicleEF	LHD1	9.2400e-004	9.1200e-004
tblVehicleEF	LHD1	2.5390e-003	2.4920e-003
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	8.8100e-004	2.4200e-004
tblVehicleEF	LHD1	3.7070e-003	3.1750e-003
tblVehicleEF	LHD1	0.11	0.09
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	1.8240e-003	1.5420e-003
tblVehicleEF	LHD1	0.08	0.07
tblVehicleEF	LHD1	0.35	0.60

tblVehicleEF	LHD1	0.27	0.08
tblVehicleEF	LHD1	9.2000e-005	9.0000e-005
tblVehicleEF	LHD1	5.9760e-003	6.3130e-003
tblVehicleEF	LHD1	3.5300e-004	1.0700e-004
tblVehicleEF	LHD1	3.7070e-003	3.1750e-003
tblVehicleEF	LHD1	0.11	0.09
tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	1.8240e-003	1.5420e-003
tblVehicleEF	LHD1	0.10	0.08
tblVehicleEF	LHD1	0.35	0.60
tblVehicleEF	LHD1	0.29	0.09
tblVehicleEF	LHD1	5.2170e-003	4.8790e-003
tblVehicleEF	LHD1	0.01	6.6670e-003
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	0.14	0.17
tblVehicleEF	LHD1	1.09	0.90
tblVehicleEF	LHD1	2.43	0.97
tblVehicleEF	LHD1	9.23	9.35
tblVehicleEF	LHD1	609.20	648.66
tblVehicleEF	LHD1	30.40	10.67
tblVehicleEF	LHD1	0.09	0.08
tblVehicleEF	LHD1	1.98	1.44
tblVehicleEF	LHD1	9.6500e-004	9.5300e-004
tblVehicleEF	LHD1	0.01	9.9680e-003
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	9.5800e-004	2.6300e-004
tblVehicleEF	LHD1	9.2400e-004	9.1200e-004

tblVehicleEF	LHD1	2.5390e-003	2.4920e-003
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	8.8100e-004	2.4200e-004
tblVehicleEF	LHD1	7.3080e-003	6.2980e-003
tblVehicleEF	LHD1	0.13	0.11
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	4.1220e-003	3.5370e-003
tblVehicleEF	LHD1	0.09	0.07
tblVehicleEF	LHD1	0.36	0.60
tblVehicleEF	LHD1	0.25	0.08
tblVehicleEF	LHD1	9.2000e-005	9.0000e-005
tblVehicleEF	LHD1	5.9770e-003	6.3140e-003
tblVehicleEF	LHD1	3.5000e-004	1.0600e-004
tblVehicleEF	LHD1	7.3080e-003	6.2980e-003
tblVehicleEF	LHD1	0.13	0.11
tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	4.1220e-003	3.5370e-003
tblVehicleEF	LHD1	0.11	0.09
tblVehicleEF	LHD1	0.36	0.60
tblVehicleEF	LHD1	0.28	0.08
tblVehicleEF	LHD1	5.2170e-003	4.8670e-003
tblVehicleEF	LHD1	0.01	6.5250e-003
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	0.14	0.17
tblVehicleEF	LHD1	1.07	0.89
tblVehicleEF	LHD1	2.55	1.02
tblVehicleEF	LHD1	9.23	9.35

tblVehicleEF	LHD1	609.20	648.63
tblVehicleEF	LHD1	30.40	10.76
tblVehicleEF	LHD1	0.09	0.08
tblVehicleEF	LHD1	2.08	1.51
tblVehicleEF	LHD1	9.6500e-004	9.5300e-004
tblVehicleEF	LHD1	0.01	9.9680e-003
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	9.5800e-004	2.6300e-004
tblVehicleEF	LHD1	9.2400e-004	9.1200e-004
tblVehicleEF	LHD1	2.5390e-003	2.4920e-003
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	8.8100e-004	2.4200e-004
tblVehicleEF	LHD1	4.0430e-003	3.5090e-003
tblVehicleEF	LHD1	0.13	0.10
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	1.7940e-003	1.5200e-003
tblVehicleEF	LHD1	0.08	0.07
tblVehicleEF	LHD1	0.38	0.64
tblVehicleEF	LHD1	0.26	0.08
tblVehicleEF	LHD1	9.2000e-005	9.0000e-005
tblVehicleEF	LHD1	5.9760e-003	6.3130e-003
tblVehicleEF	LHD1	3.5200e-004	1.0600e-004
tblVehicleEF	LHD1	4.0430e-003	3.5090e-003
tblVehicleEF	LHD1	0.13	0.10
tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	1.7940e-003	1.5200e-003
tblVehicleEF	LHD1	0.10	0.08

tblVehicleEF	LHD1	0.38	0.64
tblVehicleEF	LHD1	0.29	0.09
tblVehicleEF	LHD2	3.5950e-003	3.3090e-003
tblVehicleEF	LHD2	4.6110e-003	4.1580e-003
tblVehicleEF	LHD2	8.1370e-003	9.5080e-003
tblVehicleEF	LHD2	0.12	0.14
tblVehicleEF	LHD2	0.50	0.56
tblVehicleEF	LHD2	1.20	0.61
tblVehicleEF	LHD2	14.27	14.55
tblVehicleEF	LHD2	608.52	648.96
tblVehicleEF	LHD2	24.46	7.78
tblVehicleEF	LHD2	0.11	0.11
tblVehicleEF	LHD2	1.49	1.65
tblVehicleEF	LHD2	1.2830e-003	1.4030e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	4.0000e-004	1.2600e-004
tblVehicleEF	LHD2	1.2280e-003	1.3430e-003
tblVehicleEF	LHD2	2.6860e-003	2.6930e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	3.6800e-004	1.1600e-004
tblVehicleEF	LHD2	1.3070e-003	1.5580e-003
tblVehicleEF	LHD2	0.04	0.05
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	7.0300e-004	8.0000e-004
tblVehicleEF	LHD2	0.06	0.06
tblVehicleEF	LHD2	0.09	0.29

tblVehicleEF	LHD2	0.11	0.05
tblVehicleEF	LHD2	5.9200e-003	6.2610e-003
tblVehicleEF	LHD2	2.6700e-004	7.7000e-005
tblVehicleEF	LHD2	1.3070e-003	1.5580e-003
tblVehicleEF	LHD2	0.04	0.05
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	7.0300e-004	8.0000e-004
tblVehicleEF	LHD2	0.07	0.07
tblVehicleEF	LHD2	0.09	0.29
tblVehicleEF	LHD2	0.12	0.05
tblVehicleEF	LHD2	3.5950e-003	3.3190e-003
tblVehicleEF	LHD2	4.6760e-003	4.2030e-003
tblVehicleEF	LHD2	7.7630e-003	9.0810e-003
tblVehicleEF	LHD2	0.12	0.14
tblVehicleEF	LHD2	0.50	0.56
tblVehicleEF	LHD2	1.13	0.57
tblVehicleEF	LHD2	14.27	14.55
tblVehicleEF	LHD2	608.52	648.97
tblVehicleEF	LHD2	24.46	7.71
tblVehicleEF	LHD2	0.11	0.11
tblVehicleEF	LHD2	1.40	1.55
tblVehicleEF	LHD2	1.2830e-003	1.4030e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	4.0000e-004	1.2600e-004
tblVehicleEF	LHD2	1.2280e-003	1.3430e-003
tblVehicleEF	LHD2	2.6860e-003	2.6930e-003

tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	3.6800e-004	1.1600e-004
tblVehicleEF	LHD2	2.5220e-003	3.0280e-003
tblVehicleEF	LHD2	0.04	0.06
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	1.5220e-003	1.7650e-003
tblVehicleEF	LHD2	0.06	0.06
tblVehicleEF	LHD2	0.09	0.29
tblVehicleEF	LHD2	0.10	0.04
tblVehicleEF	LHD2	5.9200e-003	6.2610e-003
tblVehicleEF	LHD2	2.6500e-004	7.6000e-005
tblVehicleEF	LHD2	2.5220e-003	3.0280e-003
tblVehicleEF	LHD2	0.04	0.06
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	1.5220e-003	1.7650e-003
tblVehicleEF	LHD2	0.07	0.07
tblVehicleEF	LHD2	0.09	0.29
tblVehicleEF	LHD2	0.11	0.05
tblVehicleEF	LHD2	3.5950e-003	3.3110e-003
tblVehicleEF	LHD2	4.6180e-003	4.1630e-003
tblVehicleEF	LHD2	8.0640e-003	9.4270e-003
tblVehicleEF	LHD2	0.12	0.14
tblVehicleEF	LHD2	0.50	0.56
tblVehicleEF	LHD2	1.19	0.60
tblVehicleEF	LHD2	14.27	14.55
tblVehicleEF	LHD2	608.52	648.96
tblVehicleEF	LHD2	24.46	7.77

tblVehicleEF	LHD2	0.11	0.11
tblVehicleEF	LHD2	1.46	1.62
tblVehicleEF	LHD2	1.2830e-003	1.4030e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	4.0000e-004	1.2600e-004
tblVehicleEF	LHD2	1.2280e-003	1.3430e-003
tblVehicleEF	LHD2	2.6860e-003	2.6930e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	3.6800e-004	1.1600e-004
tblVehicleEF	LHD2	1.3460e-003	1.6400e-003
tblVehicleEF	LHD2	0.04	0.05
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	6.8700e-004	7.8100e-004
tblVehicleEF	LHD2	0.06	0.06
tblVehicleEF	LHD2	0.10	0.31
tblVehicleEF	LHD2	0.11	0.05
tblVehicleEF	LHD2	5.9200e-003	6.2610e-003
tblVehicleEF	LHD2	2.6600e-004	7.7000e-005
tblVehicleEF	LHD2	1.3460e-003	1.6400e-003
tblVehicleEF	LHD2	0.04	0.05
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	6.8700e-004	7.8100e-004
tblVehicleEF	LHD2	0.07	0.07
tblVehicleEF	LHD2	0.10	0.31
tblVehicleEF	LHD2	0.12	0.05
tblVehicleEF	MCY	0.43	0.33

tblVehicleEF	MCY	0.16	0.25
tblVehicleEF	MCY	20.55	20.74
tblVehicleEF	MCY	9.93	8.78
tblVehicleEF	MCY	167.73	210.98
tblVehicleEF	MCY	46.45	61.55
tblVehicleEF	MCY	1.16	1.17
tblVehicleEF	MCY	1.8610e-003	1.8280e-003
tblVehicleEF	MCY	3.6730e-003	3.0520e-003
tblVehicleEF	MCY	1.7420e-003	1.7110e-003
tblVehicleEF	MCY	3.4650e-003	2.8770e-003
tblVehicleEF	MCY	1.45	1.44
tblVehicleEF	MCY	0.84	0.84
tblVehicleEF	MCY	0.80	0.80
tblVehicleEF	MCY	2.23	2.23
tblVehicleEF	MCY	0.49	2.04
tblVehicleEF	MCY	2.16	1.90
tblVehicleEF	MCY	2.0770e-003	2.0880e-003
tblVehicleEF	MCY	6.9000e-004	6.0900e-004
tblVehicleEF	MCY	1.45	1.44
tblVehicleEF	MCY	0.84	0.84
tblVehicleEF	MCY	0.80	0.80
tblVehicleEF	MCY	2.74	2.74
tblVehicleEF	MCY	0.49	2.04
tblVehicleEF	MCY	2.35	2.07
tblVehicleEF	MCY	0.42	0.32
tblVehicleEF	MCY	0.14	0.22
tblVehicleEF	MCY	20.68	20.87

tblVehicleEF	MCY	9.05	7.97
tblVehicleEF	MCY	167.73	210.98
tblVehicleEF	MCY	46.45	59.35
tblVehicleEF	MCY	0.99	0.99
tblVehicleEF	MCY	1.8610e-003	1.8280e-003
tblVehicleEF	MCY	3.6730e-003	3.0520e-003
tblVehicleEF	MCY	1.7420e-003	1.7110e-003
tblVehicleEF	MCY	3.4650e-003	2.8770e-003
tblVehicleEF	MCY	3.14	3.14
tblVehicleEF	MCY	1.27	1.28
tblVehicleEF	MCY	2.13	2.12
tblVehicleEF	MCY	2.17	2.17
tblVehicleEF	MCY	0.49	2.03
tblVehicleEF	MCY	1.86	1.63
tblVehicleEF	MCY	2.0770e-003	2.0880e-003
tblVehicleEF	MCY	6.6700e-004	5.8700e-004
tblVehicleEF	MCY	3.14	3.14
tblVehicleEF	MCY	1.27	1.28
tblVehicleEF	MCY	2.13	2.12
tblVehicleEF	MCY	2.67	2.67
tblVehicleEF	MCY	0.49	2.03
tblVehicleEF	MCY	2.02	1.77
tblVehicleEF	MCY	0.42	0.32
tblVehicleEF	MCY	0.15	0.24
tblVehicleEF	MCY	19.63	19.79
tblVehicleEF	MCY	9.55	8.43
tblVehicleEF	MCY	167.73	209.35

tblVehicleEF	MCY	46.45	60.75
tblVehicleEF	MCY	1.12	1.12
tblVehicleEF	MCY	1.8610e-003	1.8280e-003
tblVehicleEF	MCY	3.6730e-003	3.0520e-003
tblVehicleEF	MCY	1.7420e-003	1.7110e-003
tblVehicleEF	MCY	3.4650e-003	2.8770e-003
tblVehicleEF	MCY	1.71	1.70
tblVehicleEF	MCY	1.13	1.12
tblVehicleEF	MCY	0.72	0.71
tblVehicleEF	MCY	2.19	2.20
tblVehicleEF	MCY	0.56	2.32
tblVehicleEF	MCY	2.08	1.83
tblVehicleEF	MCY	2.0610e-003	2.0720e-003
tblVehicleEF	MCY	6.8200e-004	6.0100e-004
tblVehicleEF	MCY	1.71	1.70
tblVehicleEF	MCY	1.13	1.12
tblVehicleEF	MCY	0.72	0.71
tblVehicleEF	MCY	2.69	2.69
tblVehicleEF	MCY	0.56	2.32
tblVehicleEF	MCY	2.27	1.99
tblVehicleEF	MDV	0.01	5.5560e-003
tblVehicleEF	MDV	0.02	0.09
tblVehicleEF	MDV	1.35	1.14
tblVehicleEF	MDV	3.25	3.33
tblVehicleEF	MDV	483.94	412.02
tblVehicleEF	MDV	107.92	87.05
tblVehicleEF	MDV	0.17	0.12

tblVehicleEF	MDV	1.8260e-003	1.6290e-003
tblVehicleEF	MDV	2.5170e-003	2.0560e-003
tblVehicleEF	MDV	1.6830e-003	1.5030e-003
tblVehicleEF	MDV	2.3150e-003	1.8910e-003
tblVehicleEF	MDV	0.10	0.12
tblVehicleEF	MDV	0.20	0.17
tblVehicleEF	MDV	0.08	0.10
tblVehicleEF	MDV	0.03	0.02
tblVehicleEF	MDV	0.11	0.52
tblVehicleEF	MDV	0.25	0.45
tblVehicleEF	MDV	4.8500e-003	4.0740e-003
tblVehicleEF	MDV	1.1370e-003	8.6100e-004
tblVehicleEF	MDV	0.10	0.12
tblVehicleEF	MDV	0.20	0.17
tblVehicleEF	MDV	0.08	0.10
tblVehicleEF	MDV	0.05	0.03
tblVehicleEF	MDV	0.11	0.52
tblVehicleEF	MDV	0.28	0.50
tblVehicleEF	MDV	0.01	6.3580e-003
tblVehicleEF	MDV	0.02	0.08
tblVehicleEF	MDV	1.64	1.38
tblVehicleEF	MDV	2.69	2.75
tblVehicleEF	MDV	526.85	437.99
tblVehicleEF	MDV	107.92	85.88
tblVehicleEF	MDV	0.16	0.11
tblVehicleEF	MDV	1.8260e-003	1.6290e-003
tblVehicleEF	MDV	2.5170e-003	2.0560e-003

tblVehicleEF	MDV	1.6830e-003	1.5030e-003
tblVehicleEF	MDV	2.3150e-003	1.8910e-003
tblVehicleEF	MDV	0.20	0.24
tblVehicleEF	MDV	0.23	0.20
tblVehicleEF	MDV	0.17	0.21
tblVehicleEF	MDV	0.04	0.03
tblVehicleEF	MDV	0.11	0.52
tblVehicleEF	MDV	0.21	0.38
tblVehicleEF	MDV	5.2830e-003	4.3310e-003
tblVehicleEF	MDV	1.1260e-003	8.5000e-004
tblVehicleEF	MDV	0.20	0.24
tblVehicleEF	MDV	0.23	0.20
tblVehicleEF	MDV	0.17	0.21
tblVehicleEF	MDV	0.05	0.04
tblVehicleEF	MDV	0.11	0.52
tblVehicleEF	MDV	0.23	0.42
tblVehicleEF	MDV	0.01	5.4100e-003
tblVehicleEF	MDV	0.02	0.09
tblVehicleEF	MDV	1.28	1.08
tblVehicleEF	MDV	3.20	3.28
tblVehicleEF	MDV	473.93	405.86
tblVehicleEF	MDV	107.92	86.95
tblVehicleEF	MDV	0.16	0.11
tblVehicleEF	MDV	1.8260e-003	1.6290e-003
tblVehicleEF	MDV	2.5170e-003	2.0560e-003
tblVehicleEF	MDV	1.6830e-003	1.5030e-003
tblVehicleEF	MDV	2.3150e-003	1.8910e-003

tblVehicleEF	MDV	0.10	0.11
tblVehicleEF	MDV	0.22	0.19
tblVehicleEF	MDV	0.08	0.10
tblVehicleEF	MDV	0.03	0.02
tblVehicleEF	MDV	0.13	0.60
tblVehicleEF	MDV	0.25	0.45
tblVehicleEF	MDV	4.7490e-003	4.0130e-003
tblVehicleEF	MDV	1.1360e-003	8.6000e-004
tblVehicleEF	MDV	0.10	0.11
tblVehicleEF	MDV	0.22	0.19
tblVehicleEF	MDV	0.08	0.10
tblVehicleEF	MDV	0.04	0.03
tblVehicleEF	MDV	0.13	0.60
tblVehicleEF	MDV	0.27	0.49
tblVehicleEF	MH	0.04	3.7970e-003
tblVehicleEF	MH	0.03	0.00
tblVehicleEF	MH	3.07	0.36
tblVehicleEF	MH	6.43	0.00
tblVehicleEF	MH	1,045.05	951.23
tblVehicleEF	MH	59.49	0.00
tblVehicleEF	MH	1.54	4.54
tblVehicleEF	MH	0.01	0.02
tblVehicleEF	MH	0.04	0.14
tblVehicleEF	MH	1.1740e-003	0.00
tblVehicleEF	MH	3.2230e-003	4.0000e-003
tblVehicleEF	MH	0.04	0.14
tblVehicleEF	MH	1.0790e-003	0.00

tblVehicleEF	MH	1.47	0.00
tblVehicleEF	MH	0.09	0.00
tblVehicleEF	MH	0.51	0.00
tblVehicleEF	MH	0.10	0.08
tblVehicleEF	MH	0.03	0.00
tblVehicleEF	MH	0.37	0.00
tblVehicleEF	MH	0.01	8.9930e-003
tblVehicleEF	MH	7.0700e-004	0.00
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tblVehicleEF	MH	0.09	0.00
tblVehicleEF	MH	0.51	0.00
tblVehicleEF	MH	0.14	0.09
tblVehicleEF	MH	0.03	0.00
tblVehicleEF	MH	0.40	0.00
tblVehicleEF	MH	0.04	3.7970e-003
tblVehicleEF	MH	0.03	0.00
tblVehicleEF	MH	3.19	0.36
tblVehicleEF	MH	5.84	0.00
tblVehicleEF	MH	1,045.05	951.23
tblVehicleEF	MH	59.49	0.00
tblVehicleEF	MH	1.41	4.26
tblVehicleEF	MH	0.01	0.02
tblVehicleEF	MH	0.04	0.14
tblVehicleEF	MH	1.1740e-003	0.00
tblVehicleEF	MH	3.2230e-003	4.0000e-003
tblVehicleEF	MH	0.04	0.14
tblVehicleEF	MH	1.0790e-003	0.00

tblVehicleEF	MH	2.91	0.00
tblVehicleEF	MH	0.11	0.00
tblVehicleEF	MH	1.21	0.00
tblVehicleEF	MH	0.11	0.08
tblVehicleEF	MH	0.03	0.00
tblVehicleEF	MH	0.34	0.00
tblVehicleEF	MH	0.01	8.9930e-003
tblVehicleEF	MH	6.9700e-004	0.00
tblVehicleEF	MH	2.91	0.00
tblVehicleEF	MH	0.11	0.00
tblVehicleEF	MH	1.21	0.00
tblVehicleEF	MH	0.15	0.09
tblVehicleEF	MH	0.03	0.00
tblVehicleEF	MH	0.38	0.00
tblVehicleEF	MH	0.04	3.7970e-003
tblVehicleEF	MH	0.03	0.00
tblVehicleEF	MH	3.08	0.36
tblVehicleEF	MH	6.36	0.00
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tblVehicleEF	MH	3.2230e-003	4.0000e-003
tblVehicleEF	MH	0.04	0.14
tblVehicleEF	MH	1.0790e-003	0.00

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tblVehicleEF	MH	0.11	0.00
tblVehicleEF	MH	0.53	0.00
tblVehicleEF	MH	0.10	0.08
tblVehicleEF	MH	0.03	0.00
tblVehicleEF	MH	0.37	0.00
tblVehicleEF	MH	0.01	8.9930e-003
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tblVehicleEF	MH	1.75	0.00
tblVehicleEF	MH	0.11	0.00
tblVehicleEF	MH	0.53	0.00
tblVehicleEF	MH	0.15	0.09
tblVehicleEF	MH	0.03	0.00
tblVehicleEF	MH	0.40	0.00
tblVehicleEF	MHD	0.02	3.1740e-003
tblVehicleEF	MHD	3.5160e-003	3.4880e-003
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tblVehicleEF	MHD	0.99	1.54
tblVehicleEF	MHD	3.8600e-004	1.1810e-003
tblVehicleEF	MHD	5.0030e-003	0.03

tblVehicleEF	MHD	7.6400e-004	1.0000e-004
tblVehicleEF	MHD	3.6900e-004	1.1300e-003
tblVehicleEF	MHD	4.7830e-003	0.03
tblVehicleEF	MHD	7.0300e-004	9.2000e-005
tblVehicleEF	MHD	1.2800e-003	5.9300e-004
tblVehicleEF	MHD	0.04	0.02
tblVehicleEF	MHD	0.02	0.02
tblVehicleEF	MHD	6.5100e-004	3.0000e-004
tblVehicleEF	MHD	0.04	0.05
tblVehicleEF	MHD	0.02	0.11
tblVehicleEF	MHD	0.32	0.04
tblVehicleEF	MHD	1.5080e-003	6.5500e-004
tblVehicleEF	MHD	0.01	9.5250e-003
tblVehicleEF	MHD	6.1700e-004	8.2000e-005
tblVehicleEF	MHD	1.2800e-003	5.9300e-004
tblVehicleEF	MHD	0.04	0.02
tblVehicleEF	MHD	0.03	0.02
tblVehicleEF	MHD	6.5100e-004	3.0000e-004
tblVehicleEF	MHD	0.04	0.06
tblVehicleEF	MHD	0.02	0.11
tblVehicleEF	MHD	0.35	0.05
tblVehicleEF	MHD	0.02	3.0170e-003
tblVehicleEF	MHD	3.5800e-003	3.5290e-003
tblVehicleEF	MHD	0.05	8.1180e-003
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tblVehicleEF	MHD	0.28	0.36
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tblVehicleEF	MHD	3.2500e-004	9.9900e-004
tblVehicleEF	MHD	5.0030e-003	0.03
tblVehicleEF	MHD	7.6400e-004	1.0000e-004
tblVehicleEF	MHD	3.1100e-004	9.5500e-004
tblVehicleEF	MHD	4.7830e-003	0.03
tblVehicleEF	MHD	7.0300e-004	9.2000e-005
tblVehicleEF	MHD	2.5300e-003	1.1740e-003
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tblVehicleEF	MHD	0.02	0.02
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tblVehicleEF	MHD	0.02	0.11
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tblVehicleEF	MHD	1.5950e-003	6.6200e-004
tblVehicleEF	MHD	0.01	9.5250e-003
tblVehicleEF	MHD	6.1100e-004	8.1000e-005
tblVehicleEF	MHD	2.5300e-003	1.1740e-003
tblVehicleEF	MHD	0.05	0.02
tblVehicleEF	MHD	0.03	0.02
tblVehicleEF	MHD	1.5010e-003	6.9400e-004
tblVehicleEF	MHD	0.04	0.06
tblVehicleEF	MHD	0.02	0.11

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tblVehicleEF	MHD	0.27	0.35
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tblVehicleEF	MHD	1,101.52	999.60
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tblVehicleEF	MHD	0.57	0.51
tblVehicleEF	MHD	0.97	1.51
tblVehicleEF	MHD	4.7000e-004	1.4340e-003
tblVehicleEF	MHD	5.0030e-003	0.03
tblVehicleEF	MHD	7.6400e-004	1.0000e-004
tblVehicleEF	MHD	4.4900e-004	1.3720e-003
tblVehicleEF	MHD	4.7830e-003	0.03
tblVehicleEF	MHD	7.0300e-004	9.2000e-005
tblVehicleEF	MHD	1.3890e-003	6.4600e-004
tblVehicleEF	MHD	0.05	0.02
tblVehicleEF	MHD	0.03	0.02
tblVehicleEF	MHD	6.4000e-004	2.9500e-004
tblVehicleEF	MHD	0.04	0.05
tblVehicleEF	MHD	0.02	0.12
tblVehicleEF	MHD	0.32	0.04
tblVehicleEF	MHD	1.3860e-003	6.4600e-004
tblVehicleEF	MHD	0.01	9.5250e-003

tblVehicleEF	MHD	6.1600e-004	8.1000e-005
tblVehicleEF	MHD	1.3890e-003	6.4600e-004
tblVehicleEF	MHD	0.05	0.02
tblVehicleEF	MHD	0.04	0.02
tblVehicleEF	MHD	6.4000e-004	2.9500e-004
tblVehicleEF	MHD	0.04	0.06
tblVehicleEF	MHD	0.02	0.12
tblVehicleEF	MHD	0.35	0.05
tblVehicleEF	OBUS	0.01	9.1480e-003
tblVehicleEF	OBUS	9.9110e-003	8.5440e-003
tblVehicleEF	OBUS	0.03	0.03
tblVehicleEF	OBUS	0.26	0.48
tblVehicleEF	OBUS	0.63	0.98
tblVehicleEF	OBUS	6.27	2.73
tblVehicleEF	OBUS	70.35	66.56
tblVehicleEF	OBUS	1,121.50	1,475.42
tblVehicleEF	OBUS	70.70	21.88
tblVehicleEF	OBUS	0.28	0.29
tblVehicleEF	OBUS	0.97	1.13
tblVehicleEF	OBUS	6.4000e-005	5.0000e-004
tblVehicleEF	OBUS	4.6440e-003	0.01
tblVehicleEF	OBUS	9.2900e-004	2.3000e-004
tblVehicleEF	OBUS	6.1000e-005	4.7800e-004
tblVehicleEF	OBUS	4.4220e-003	0.01
tblVehicleEF	OBUS	8.5400e-004	2.1200e-004
tblVehicleEF	OBUS	2.1800e-003	2.7870e-003
tblVehicleEF	OBUS	0.02	0.03

tblVehicleEF	OBUS	0.04	0.05
tblVehicleEF	OBUS	9.3100e-004	1.1430e-003
tblVehicleEF	OBUS	0.04	0.06
tblVehicleEF	OBUS	0.05	0.31
tblVehicleEF	OBUS	0.38	0.13
tblVehicleEF	OBUS	6.8400e-004	6.3600e-004
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	8.1700e-004	2.1700e-004
tblVehicleEF	OBUS	2.1800e-003	2.7870e-003
tblVehicleEF	OBUS	0.02	0.03
tblVehicleEF	OBUS	0.05	0.07
tblVehicleEF	OBUS	9.3100e-004	1.1430e-003
tblVehicleEF	OBUS	0.06	0.07
tblVehicleEF	OBUS	0.05	0.31
tblVehicleEF	OBUS	0.42	0.14
tblVehicleEF	OBUS	0.01	9.2020e-003
tblVehicleEF	OBUS	0.01	8.7760e-003
tblVehicleEF	OBUS	0.03	0.02
tblVehicleEF	OBUS	0.26	0.47
tblVehicleEF	OBUS	0.65	1.01
tblVehicleEF	OBUS	5.74	2.51
tblVehicleEF	OBUS	73.50	66.43
tblVehicleEF	OBUS	1,121.50	1,475.46
tblVehicleEF	OBUS	70.70	21.50
tblVehicleEF	OBUS	0.29	0.28
tblVehicleEF	OBUS	0.90	1.04
tblVehicleEF	OBUS	5.4000e-005	4.2500e-004

tblVehicleEF	OBUS	4.6440e-003	0.01
tblVehicleEF	OBUS	9.2900e-004	2.3000e-004
tblVehicleEF	OBUS	5.1000e-005	4.0700e-004
tblVehicleEF	OBUS	4.4220e-003	0.01
tblVehicleEF	OBUS	8.5400e-004	2.1200e-004
tblVehicleEF	OBUS	4.2350e-003	5.4310e-003
tblVehicleEF	OBUS	0.02	0.03
tblVehicleEF	OBUS	0.03	0.05
tblVehicleEF	OBUS	2.1330e-003	2.6360e-003
tblVehicleEF	OBUS	0.05	0.06
tblVehicleEF	OBUS	0.05	0.31
tblVehicleEF	OBUS	0.36	0.12
tblVehicleEF	OBUS	7.1400e-004	6.3500e-004
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	8.0800e-004	2.1300e-004
tblVehicleEF	OBUS	4.2350e-003	5.4310e-003
tblVehicleEF	OBUS	0.02	0.03
tblVehicleEF	OBUS	0.05	0.07
tblVehicleEF	OBUS	2.1330e-003	2.6360e-003
tblVehicleEF	OBUS	0.06	0.08
tblVehicleEF	OBUS	0.05	0.31
tblVehicleEF	OBUS	0.40	0.14
tblVehicleEF	OBUS	0.01	9.1130e-003
tblVehicleEF	OBUS	9.9380e-003	8.5700e-003
tblVehicleEF	OBUS	0.03	0.03
tblVehicleEF	OBUS	0.28	0.49
tblVehicleEF	OBUS	0.63	0.99

tblVehicleEF	OBUS	6.22	2.71
tblVehicleEF	OBUS	66.00	66.75
tblVehicleEF	OBUS	1,121.50	1,475.42
tblVehicleEF	OBUS	70.70	21.85
tblVehicleEF	OBUS	0.27	0.30
tblVehicleEF	OBUS	0.96	1.11
tblVehicleEF	OBUS	7.7000e-005	6.0400e-004
tblVehicleEF	OBUS	4.6440e-003	0.01
tblVehicleEF	OBUS	9.2900e-004	2.3000e-004
tblVehicleEF	OBUS	7.4000e-005	5.7800e-004
tblVehicleEF	OBUS	4.4220e-003	0.01
tblVehicleEF	OBUS	8.5400e-004	2.1200e-004
tblVehicleEF	OBUS	2.3200e-003	3.0070e-003
tblVehicleEF	OBUS	0.02	0.03
tblVehicleEF	OBUS	0.04	0.05
tblVehicleEF	OBUS	9.4100e-004	1.1540e-003
tblVehicleEF	OBUS	0.04	0.06
tblVehicleEF	OBUS	0.05	0.33
tblVehicleEF	OBUS	0.38	0.13
tblVehicleEF	OBUS	6.4200e-004	6.3800e-004
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	8.1600e-004	2.1600e-004
tblVehicleEF	OBUS	2.3200e-003	3.0070e-003
tblVehicleEF	OBUS	0.02	0.03
tblVehicleEF	OBUS	0.05	0.06
tblVehicleEF	OBUS	9.4100e-004	1.1540e-003
tblVehicleEF	OBUS	0.06	0.08

tblVehicleEF	OBUS	0.05	0.33
tblVehicleEF	OBUS	0.42	0.14
tblVehicleEF	SBUS	0.84	0.04
tblVehicleEF	SBUS	0.01	6.8550e-003
tblVehicleEF	SBUS	0.07	4.0770e-003
tblVehicleEF	SBUS	5.71	1.90
tblVehicleEF	SBUS	0.65	0.58
tblVehicleEF	SBUS	5.33	0.55
tblVehicleEF	SBUS	1,258.13	336.22
tblVehicleEF	SBUS	1,136.31	1,128.72
tblVehicleEF	SBUS	37.11	3.21
tblVehicleEF	SBUS	11.70	3.35
tblVehicleEF	SBUS	4.77	5.07
tblVehicleEF	SBUS	0.01	4.0350e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.03	0.03
tblVehicleEF	SBUS	5.1700e-004	3.0000e-005
tblVehicleEF	SBUS	0.01	3.8600e-003
tblVehicleEF	SBUS	2.7560e-003	2.7660e-003
tblVehicleEF	SBUS	0.03	0.03
tblVehicleEF	SBUS	4.7500e-004	2.8000e-005
tblVehicleEF	SBUS	2.9260e-003	7.3800e-004
tblVehicleEF	SBUS	0.02	5.5390e-003
tblVehicleEF	SBUS	0.68	0.20
tblVehicleEF	SBUS	1.3050e-003	3.4800e-004
tblVehicleEF	SBUS	0.11	0.10
tblVehicleEF	SBUS	9.3510e-003	0.04

tblVehicleEF	SBUS	0.27	0.02
tblVehicleEF	SBUS	0.01	3.1960e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	4.6300e-004	3.2000e-005
tblVehicleEF	SBUS	2.9260e-003	7.3800e-004
tblVehicleEF	SBUS	0.02	5.5390e-003
tblVehicleEF	SBUS	0.97	0.28
tblVehicleEF	SBUS	1.3050e-003	3.4800e-004
tblVehicleEF	SBUS	0.13	0.11
tblVehicleEF	SBUS	9.3510e-003	0.04
tblVehicleEF	SBUS	0.30	0.03
tblVehicleEF	SBUS	0.84	0.04
tblVehicleEF	SBUS	0.01	6.9390e-003
tblVehicleEF	SBUS	0.06	3.3780e-003
tblVehicleEF	SBUS	5.56	1.86
tblVehicleEF	SBUS	0.66	0.59
tblVehicleEF	SBUS	3.65	0.39
tblVehicleEF	SBUS	1,322.00	344.13
tblVehicleEF	SBUS	1,136.31	1,128.74
tblVehicleEF	SBUS	37.11	2.94
tblVehicleEF	SBUS	12.08	3.42
tblVehicleEF	SBUS	4.47	4.75
tblVehicleEF	SBUS	0.01	3.4090e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.03	0.03
tblVehicleEF	SBUS	5.1700e-004	3.0000e-005
tblVehicleEF	SBUS	9.6490e-003	3.2620e-003

tblVehicleEF	SBUS	2.7560e-003	2.7660e-003
tblVehicleEF	SBUS	0.03	0.03
tblVehicleEF	SBUS	4.7500e-004	2.8000e-005
tblVehicleEF	SBUS	5.6170e-003	1.3280e-003
tblVehicleEF	SBUS	0.02	5.8520e-003
tblVehicleEF	SBUS	0.67	0.20
tblVehicleEF	SBUS	2.8800e-003	6.7400e-004
tblVehicleEF	SBUS	0.11	0.10
tblVehicleEF	SBUS	8.5310e-003	0.03
tblVehicleEF	SBUS	0.22	0.02
tblVehicleEF	SBUS	0.01	3.2700e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	4.3500e-004	2.9000e-005
tblVehicleEF	SBUS	5.6170e-003	1.3280e-003
tblVehicleEF	SBUS	0.02	5.8520e-003
tblVehicleEF	SBUS	0.97	0.28
tblVehicleEF	SBUS	2.8800e-003	6.7400e-004
tblVehicleEF	SBUS	0.13	0.12
tblVehicleEF	SBUS	8.5310e-003	0.03
tblVehicleEF	SBUS	0.24	0.02
tblVehicleEF	SBUS	0.84	0.04
tblVehicleEF	SBUS	0.01	6.8510e-003
tblVehicleEF	SBUS	0.07	4.1760e-003
tblVehicleEF	SBUS	5.91	1.95
tblVehicleEF	SBUS	0.65	0.58
tblVehicleEF	SBUS	5.37	0.57
tblVehicleEF	SBUS	1,169.92	325.30

tblVehicleEF	SBUS	1,136.31	1,128.72
tblVehicleEF	SBUS	37.11	3.24
tblVehicleEF	SBUS	11.19	3.26
tblVehicleEF	SBUS	4.69	4.99
tblVehicleEF	SBUS	0.01	4.8980e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.03	0.03
tblVehicleEF	SBUS	5.1700e-004	3.0000e-005
tblVehicleEF	SBUS	0.01	4.6860e-003
tblVehicleEF	SBUS	2.7560e-003	2.7660e-003
tblVehicleEF	SBUS	0.03	0.03
tblVehicleEF	SBUS	4.7500e-004	2.8000e-005
tblVehicleEF	SBUS	2.9580e-003	7.2600e-004
tblVehicleEF	SBUS	0.02	5.8800e-003
tblVehicleEF	SBUS	0.68	0.20
tblVehicleEF	SBUS	1.2820e-003	3.5300e-004
tblVehicleEF	SBUS	0.11	0.10
tblVehicleEF	SBUS	0.01	0.05
tblVehicleEF	SBUS	0.28	0.02
tblVehicleEF	SBUS	0.01	3.0930e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	4.6400e-004	3.2000e-005
tblVehicleEF	SBUS	2.9580e-003	7.2600e-004
tblVehicleEF	SBUS	0.02	5.8800e-003
tblVehicleEF	SBUS	0.98	0.28
tblVehicleEF	SBUS	1.2820e-003	3.5300e-004
tblVehicleEF	SBUS	0.13	0.11

tblVehicleEF	SBUS	0.01	0.05
tblVehicleEF	SBUS	0.31	0.03
tblVehicleEF	UBUS	1.83	4.19
tblVehicleEF	UBUS	0.08	0.02
tblVehicleEF	UBUS	9.26	32.67
tblVehicleEF	UBUS	14.34	1.43
tblVehicleEF	UBUS	1,846.39	1,724.94
tblVehicleEF	UBUS	136.37	16.90
tblVehicleEF	UBUS	5.87	0.37
tblVehicleEF	UBUS	0.52	0.08
tblVehicleEF	UBUS	0.01	0.03
tblVehicleEF	UBUS	0.07	2.6830e-003
tblVehicleEF	UBUS	1.4030e-003	1.8900e-004
tblVehicleEF	UBUS	0.22	0.03
tblVehicleEF	UBUS	3.0000e-003	6.3130e-003
tblVehicleEF	UBUS	0.06	2.5510e-003
tblVehicleEF	UBUS	1.2900e-003	1.7400e-004
tblVehicleEF	UBUS	8.0860e-003	1.5320e-003
tblVehicleEF	UBUS	0.11	8.4710e-003
tblVehicleEF	UBUS	3.9450e-003	6.5200e-004
tblVehicleEF	UBUS	0.61	0.06
tblVehicleEF	UBUS	0.02	0.04
tblVehicleEF	UBUS	1.15	0.06
tblVehicleEF	UBUS	0.01	3.8820e-003
tblVehicleEF	UBUS	1.6240e-003	1.6700e-004
tblVehicleEF	UBUS	8.0860e-003	1.5320e-003
tblVehicleEF	UBUS	0.11	8.4710e-003

tblVehicleEF	UBUS	3.9450e-003	6.5200e-004
tblVehicleEF	UBUS	2.50	4.28
tblVehicleEF	UBUS	0.02	0.04
tblVehicleEF	UBUS	1.25	0.07
tblVehicleEF	UBUS	1.83	4.19
tblVehicleEF	UBUS	0.08	0.01
tblVehicleEF	UBUS	9.36	32.67
tblVehicleEF	UBUS	11.74	1.17
tblVehicleEF	UBUS	1,846.39	1,724.94
tblVehicleEF	UBUS	136.37	16.47
tblVehicleEF	UBUS	5.45	0.37
tblVehicleEF	UBUS	0.52	0.08
tblVehicleEF	UBUS	0.01	0.03
tblVehicleEF	UBUS	0.07	2.6830e-003
tblVehicleEF	UBUS	1.4030e-003	1.8900e-004
tblVehicleEF	UBUS	0.22	0.03
tblVehicleEF	UBUS	3.0000e-003	6.3130e-003
tblVehicleEF	UBUS	0.06	2.5510e-003
tblVehicleEF	UBUS	1.2900e-003	1.7400e-004
tblVehicleEF	UBUS	0.02	2.9020e-003
tblVehicleEF	UBUS	0.14	0.01
tblVehicleEF	UBUS	9.3320e-003	1.4770e-003
tblVehicleEF	UBUS	0.62	0.06
tblVehicleEF	UBUS	0.02	0.04
tblVehicleEF	UBUS	1.02	0.06
tblVehicleEF	UBUS	0.01	3.8820e-003
tblVehicleEF	UBUS	1.5790e-003	1.6300e-004

tblVehicleEF	UBUS	0.02	2.9020e-003
tblVehicleEF	UBUS	0.14	0.01
tblVehicleEF	UBUS	9.3320e-003	1.4770e-003
tblVehicleEF	UBUS	2.52	4.28
tblVehicleEF	UBUS	0.02	0.04
tblVehicleEF	UBUS	1.12	0.06
tblVehicleEF	UBUS	1.83	4.19
tblVehicleEF	UBUS	0.08	0.02
tblVehicleEF	UBUS	9.27	32.67
tblVehicleEF	UBUS	13.86	1.39
tblVehicleEF	UBUS	1,846.39	1,724.94
tblVehicleEF	UBUS	136.37	16.85
tblVehicleEF	UBUS	5.76	0.37
tblVehicleEF	UBUS	0.52	0.08
tblVehicleEF	UBUS	0.01	0.03
tblVehicleEF	UBUS	0.07	2.6830e-003
tblVehicleEF	UBUS	1.4030e-003	1.8900e-004
tblVehicleEF	UBUS	0.22	0.03
tblVehicleEF	UBUS	3.0000e-003	6.3130e-003
tblVehicleEF	UBUS	0.06	2.5510e-003
tblVehicleEF	UBUS	1.2900e-003	1.7400e-004
tblVehicleEF	UBUS	9.2250e-003	1.6220e-003
tblVehicleEF	UBUS	0.14	9.7130e-003
tblVehicleEF	UBUS	4.1190e-003	6.4800e-004
tblVehicleEF	UBUS	0.61	0.06
tblVehicleEF	UBUS	0.03	0.04
tblVehicleEF	UBUS	1.13	0.06

tblVehicleEF	UBUS	0.01	3.8820e-003
tblVehicleEF	UBUS	1.6160e-003	1.6700e-004
tblVehicleEF	UBUS	9.2250e-003	1.6220e-003
tblVehicleEF	UBUS	0.14	9.7130e-003
tblVehicleEF	UBUS	4.1190e-003	6.4800e-004
tblVehicleEF	UBUS	2.50	4.28
tblVehicleEF	UBUS	0.03	0.04
tblVehicleEF	UBUS	1.24	0.07
tblVehicleTrips	CNW_TTP	41.00	0.00
tblVehicleTrips	CW_TL	16.60	14.00
tblVehicleTrips	CW_TTP	59.00	100.00
tblVehicleTrips	DV_TP	5.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PR_TP	92.00	100.00
tblVehicleTrips	ST_TR	1.68	0.64
tblVehicleTrips	SU_TR	1.68	0.59
tblVehicleTrips	WD_TR	1.68	0.95

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2021	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Maximum	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2021	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Maximum	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	17.1751	1.5900e-003	0.1746	1.0000e-005		6.2000e-004	6.2000e-004		6.2000e-004	6.2000e-004		0.3736	0.3736	9.9000e-004		0.3982
Energy	0.0319	0.2898	0.2434	1.7400e-003		0.0220	0.0220		0.0220	0.0220		347.7207	347.7207	6.6600e-003	6.3700e-003	349.7870
Mobile	1.8103	1.5201	20.7390	0.0647	7.6155	0.0366	7.6520	2.0188	0.0337	2.0525		6,544.5868	6,544.5868	0.1717		6,548.8784
Offroad	0.3661	3.8029	2.2758	9.5100e-003		0.1312	0.1312		0.1207	0.1207		920.3632	920.3632	0.2977		927.8048
Total	**19.3834**	**5.6143**	**23.4327**	**0.0760**	**7.6155**	**0.1904**	**7.8059**	**2.0188**	**0.1770**	**2.1958**		**7,813.0442**	**7,813.0442**	**0.4770**	**6.3700e-003**	**7,826.8684**

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	17.1751	1.5900e-003	0.1746	1.0000e-005		6.2000e-004	6.2000e-004		6.2000e-004	6.2000e-004		0.3736	0.3736	9.9000e-004		0.3982
Energy	0.0319	0.2898	0.2434	1.7400e-003		0.0220	0.0220		0.0220	0.0220		347.7207	347.7207	6.6600e-003	6.3700e-003	349.7870
Mobile	1.8103	1.5201	20.7390	0.0647	7.6155	0.0366	7.6520	2.0188	0.0337	2.0525		6,544.5868	6,544.5868	0.1717		6,548.8784
Offroad	0.3661	3.8029	2.2758	9.5100e-003		0.1312	0.1312		0.1207	0.1207		920.3632	920.3632	0.2977		927.8048
Total	**19.3834**	**5.6143**	**23.4327**	**0.0760**	**7.6155**	**0.1904**	**7.8059**	**2.0188**	**0.1770**	**2.1958**		**7,813.0442**	**7,813.0442**	**0.4770**	**6.3700e-003**	**7,826.8684**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	6/1/2021	5/31/2021	5	0	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 16.3

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	0	8.00	81	0.73
Demolition	Excavators	0	8.00	158	0.38
Demolition	Rubber Tired Dozers	0	8.00	247	0.40

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	0	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Demolition - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

3.2 Demolition - 2021

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	1.8103	1.5201	20.7390	0.0647	7.6155	0.0366	7.6520	2.0188	0.0337	2.0525		6,544.5868	6,544.5868	0.1717		6,548.8784
Unmitigated	1.8103	1.5201	20.7390	0.0647	7.6155	0.0366	7.6520	2.0188	0.0337	2.0525		6,544.5868	6,544.5868	0.1717		6,548.8784

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Other Asphalt Surfaces	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Unrefrigerated Warehouse-No Rail	716.01	479.88	444.20	3,278,998	3,278,998
Total	716.01	479.88	444.20	3,278,998	3,278,998

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Other Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Other Non-Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Parking Lot	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Unrefrigerated Warehouse-No	14.00	8.40	6.90	100.00	0.00	0.00	100	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Other Asphalt Surfaces	0.553113	0.036408	0.180286	0.116335	0.016165	0.005101	0.018218	0.063797	0.001357	0.001565	0.005903	0.000808	0.000944
Other Non-Asphalt Surfaces	0.553113	0.036408	0.180286	0.116335	0.016165	0.005101	0.018218	0.063797	0.001357	0.001565	0.005903	0.000808	0.000944
Parking Lot	0.553113	0.036408	0.180286	0.116335	0.016165	0.005101	0.018218	0.063797	0.001357	0.001565	0.005903	0.000808	0.000944
Unrefrigerated Warehouse-No Rail	0.624200	0.041100	0.203500	0.131200	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.0319	0.2898	0.2434	1.7400e-003		0.0220	0.0220		0.0220	0.0220		347.7207	347.7207	6.6600e-003	6.3700e-003	349.7870
NaturalGas Unmitigated	0.0319	0.2898	0.2434	1.7400e-003		0.0220	0.0220		0.0220	0.0220		347.7207	347.7207	6.6600e-003	6.3700e-003	349.7870

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	2955.63	0.0319	0.2898	0.2434	1.7400e-003		0.0220	0.0220		0.0220	0.0220		347.7207	347.7207	6.6600e-003	6.3700e-003	349.7870
Total		**0.0319**	**0.2898**	**0.2434**	**1.7400e-003**		**0.0220**	**0.0220**		**0.0220**	**0.0220**		**347.7207**	**347.7207**	**6.6600e-003**	**6.3700e-003**	**349.7870**

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	2.95563	0.0319	0.2898	0.2434	1.7400e-003		0.0220	0.0220		0.0220	0.0220		347.7207	347.7207	6.6600e-003	6.3700e-003	349.7870
Total		**0.0319**	**0.2898**	**0.2434**	**1.7400e-003**		**0.0220**	**0.0220**		**0.0220**	**0.0220**		**347.7207**	**347.7207**	**6.6600e-003**	**6.3700e-003**	**349.7870**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	17.1751	1.5900e-003	0.1746	1.0000e-005		6.2000e-004	6.2000e-004		6.2000e-004	6.2000e-004		0.3736	0.3736	9.9000e-004		0.3982
Unmitigated	17.1751	1.5900e-003	0.1746	1.0000e-005		6.2000e-004	6.2000e-004		6.2000e-004	6.2000e-004		0.3736	0.3736	9.9000e-004		0.3982

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	1.9701					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	15.1888					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0162	1.5900e-003	0.1746	1.0000e-005		6.2000e-004	6.2000e-004		6.2000e-004	6.2000e-004		0.3736	0.3736	9.9000e-004		0.3982
Total	**17.1751**	**1.5900e-003**	**0.1746**	**1.0000e-005**		**6.2000e-004**	**6.2000e-004**		**6.2000e-004**	**6.2000e-004**		**0.3736**	**0.3736**	**9.9000e-004**		**0.3982**

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	1.9701					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	15.1888					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0162	1.5900e-003	0.1746	1.0000e-005		6.2000e-004	6.2000e-004		6.2000e-004	6.2000e-004		0.3736	0.3736	9.9000e-004		0.3982
Total	**17.1751**	**1.5900e-003**	**0.1746**	**1.0000e-005**		**6.2000e-004**	**6.2000e-004**		**6.2000e-004**	**6.2000e-004**		**0.3736**	**0.3736**	**9.9000e-004**		**0.3982**

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
Tractors/Loaders/Backhoes	3	4.00	365	200	0.37	CNG

UnMitigated/Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Equipment Type	lb/day										lb/day					
Tractors/Loaders/Backhoes	0.3661	3.8029	2.2758	9.5100e-003		0.1312	0.1312		0.1207	0.1207		920.3632	920.3632	0.2977		927.8048
Total	**0.3661**	**3.8029**	**2.2758**	**9.5100e-003**		**0.1312**	**0.1312**		**0.1207**	**0.1207**		**920.3632**	**920.3632**	**0.2977**		**927.8048**

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

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APPENDIX 3.4:

CALEEMOD OPERATIONAL (TRUCKS) EMISSIONS MODEL OUTPUTS

Fontana Foothill Commerce Center (Operations - Trucks)

San Bernardino-South Coast County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Unrefrigerated Warehouse-No Rail	754.41	1000sqft	17.32	754,408.00	0
Other Asphalt Surfaces	415.94	1000sqft	9.55	415,944.00	0
Other Non-Asphalt Surfaces	132.59	1000sqft	3.04	132,592.00	0
Parking Lot	404.00	Space	3.71	161,600.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	32
Climate Zone	10			**Operational Year**	2022
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	702.44	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Fontana Foothill Commerce Center (Operations - Trucks) - San Bernardino-South Coast County, Summer

Project Characteristics -

Land Use - Unrefrigerated Warehouse - No Rail = High-Cube Short-Term Warehouse; Parking Lot = 404 Standard Spaces; Other Non-Asphalt Surfaces = Landscape area; Other Asphalt Surfaces = Balance

Construction Phase - Operations Run Only.

Off-road Equipment - Operations Run Only.

Trips and VMT - Operations Run Only.

Vehicle Trips - Trip Characteristics based on information provided in the Fontana Foothills Commcerce Center Traffic Impact Analysis report by Urban Crossroads, Inc.

Energy Use - The Project will design building shells and building components to meet 2019 Title 24 Standards which expects 30% less energy for nonresidential uses.

Operational Off-Road Equipment - Based on SCAQMD High Cube Warehouse Truck Trip Study White Paper Summary of Busniess Survey Results (2014)

Fleet Mix - Truck Fleet Mix estimated by rationing the Trip Rates for each truck type based on information provided in the TIA.

Vehicle Emission Factors - EMFAC2017

Vehicle Emission Factors - EMFAC2017

Vehicle Emission Factors - EMFAC2017

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	30.00	0.00
tblEnergyUse	LightingElect	1.17	0.82
tblEnergyUse	T24E	0.37	0.26
tblEnergyUse	T24NG	2.00	1.40
tblFleetMix	HHD	0.06	0.63
tblFleetMix	LDA	0.55	0.00
tblFleetMix	LDT1	0.04	0.00
tblFleetMix	LDT2	0.18	0.00
tblFleetMix	LHD1	0.02	0.17
tblFleetMix	LHD2	5.1010e-003	0.00
tblFleetMix	MCY	5.9030e-003	0.00
tblFleetMix	MDV	0.12	0.00

tblFleetMix	MH	9.4400e-004	0.00
tblFleetMix	MHD	0.02	0.21
tblFleetMix	OBUS	1.3570e-003	0.00
tblFleetMix	SBUS	8.0800e-004	0.00
tblFleetMix	UBUS	1.5650e-003	0.00
tblLandUse	LotAcreage	3.64	3.71
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOperationalOffRoadEquipment	OperDaysPerYear	260.00	365.00
tblOperationalOffRoadEquipment	OperFuelType	Diesel	CNG
tblOperationalOffRoadEquipment	OperHorsePower	97.00	200.00
tblOperationalOffRoadEquipment	OperHoursPerDay	8.00	4.00
tblOperationalOffRoadEquipment	OperOffRoadEquipmentNumber	0.00	3.00
tblVehicleEF	HHD	1.21	0.03
tblVehicleEF	HHD	0.04	0.06
tblVehicleEF	HHD	0.10	0.00
tblVehicleEF	HHD	3.29	8.22
tblVehicleEF	HHD	0.57	0.40
tblVehicleEF	HHD	1.82	2.2600e-003
tblVehicleEF	HHD	6,933.41	1,478.27
tblVehicleEF	HHD	1,475.79	1,372.23
tblVehicleEF	HHD	5.54	0.02
tblVehicleEF	HHD	26.50	7.64
tblVehicleEF	HHD	2.50	2.77
tblVehicleEF	HHD	9.7780e-003	3.7640e-003
tblVehicleEF	HHD	0.06	0.06

tblVehicleEF	HHD	0.04	0.04
tblVehicleEF	HHD	0.01	0.03
tblVehicleEF	HHD	5.1000e-005	1.0000e-006
tblVehicleEF	HHD	9.3550e-003	3.6010e-003
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	8.8810e-003	8.9170e-003
tblVehicleEF	HHD	0.01	0.03
tblVehicleEF	HHD	4.7000e-005	1.0000e-006
tblVehicleEF	HHD	8.5000e-005	3.0000e-006
tblVehicleEF	HHD	3.1910e-003	1.0400e-004
tblVehicleEF	HHD	0.84	0.59
tblVehicleEF	HHD	5.2000e-005	2.0000e-006
tblVehicleEF	HHD	0.08	0.05
tblVehicleEF	HHD	2.1700e-004	5.2200e-004
tblVehicleEF	HHD	0.05	1.0000e-006
tblVehicleEF	HHD	0.07	0.01
tblVehicleEF	HHD	0.01	0.01
tblVehicleEF	HHD	8.6000e-005	0.00
tblVehicleEF	HHD	8.5000e-005	3.0000e-006
tblVehicleEF	HHD	3.1910e-003	1.0400e-004
tblVehicleEF	HHD	0.97	0.67
tblVehicleEF	HHD	5.2000e-005	2.0000e-006
tblVehicleEF	HHD	0.13	0.12
tblVehicleEF	HHD	2.1700e-004	5.2200e-004
tblVehicleEF	HHD	0.06	1.0000e-006
tblVehicleEF	HHD	1.14	0.03
tblVehicleEF	HHD	0.04	0.06

tblVehicleEF	HHD	0.09	0.00
tblVehicleEF	HHD	2.39	8.07
tblVehicleEF	HHD	0.57	0.40
tblVehicleEF	HHD	1.70	2.1220e-003
tblVehicleEF	HHD	7,345.18	1,469.16
tblVehicleEF	HHD	1,475.79	1,372.23
tblVehicleEF	HHD	5.54	0.02
tblVehicleEF	HHD	27.35	7.37
tblVehicleEF	HHD	2.36	2.60
tblVehicleEF	HHD	8.2750e-003	3.3440e-003
tblVehicleEF	HHD	0.06	0.06
tblVehicleEF	HHD	0.04	0.04
tblVehicleEF	HHD	0.01	0.03
tblVehicleEF	HHD	5.1000e-005	1.0000e-006
tblVehicleEF	HHD	7.9170e-003	3.2000e-003
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	8.8810e-003	8.9170e-003
tblVehicleEF	HHD	0.01	0.03
tblVehicleEF	HHD	4.7000e-005	1.0000e-006
tblVehicleEF	HHD	1.6800e-004	7.0000e-006
tblVehicleEF	HHD	3.5970e-003	1.2200e-004
tblVehicleEF	HHD	0.79	0.62
tblVehicleEF	HHD	1.1700e-004	5.0000e-006
tblVehicleEF	HHD	0.08	0.05
tblVehicleEF	HHD	2.2100e-004	5.3900e-004
tblVehicleEF	HHD	0.05	1.0000e-006
tblVehicleEF	HHD	0.07	0.01

tblVehicleEF	HHD	0.01	0.01
tblVehicleEF	HHD	8.4000e-005	0.00
tblVehicleEF	HHD	1.6800e-004	7.0000e-006
tblVehicleEF	HHD	3.5970e-003	1.2200e-004
tblVehicleEF	HHD	0.91	0.71
tblVehicleEF	HHD	1.1700e-004	5.0000e-006
tblVehicleEF	HHD	0.13	0.12
tblVehicleEF	HHD	2.2100e-004	5.3900e-004
tblVehicleEF	HHD	0.06	1.0000e-006
tblVehicleEF	HHD	1.31	0.03
tblVehicleEF	HHD	0.04	2.3610e-003
tblVehicleEF	HHD	0.10	0.00
tblVehicleEF	HHD	4.53	8.37
tblVehicleEF	HHD	0.57	0.25
tblVehicleEF	HHD	1.79	2.2320e-003
tblVehicleEF	HHD	6,364.76	1,476.72
tblVehicleEF	HHD	1,475.79	1,332.53
tblVehicleEF	HHD	5.54	0.02
tblVehicleEF	HHD	25.32	7.94
tblVehicleEF	HHD	2.46	2.69
tblVehicleEF	HHD	0.01	4.1670e-003
tblVehicleEF	HHD	0.06	0.06
tblVehicleEF	HHD	0.04	0.04
tblVehicleEF	HHD	0.01	0.03
tblVehicleEF	HHD	5.1000e-005	1.0000e-006
tblVehicleEF	HHD	0.01	3.9860e-003
tblVehicleEF	HHD	0.03	0.03

tblVehicleEF	HHD	8.8810e-003	8.8160e-003
tblVehicleEF	HHD	0.01	0.03
tblVehicleEF	HHD	4.7000e-005	1.0000e-006
tblVehicleEF	HHD	8.5000e-005	4.0000e-006
tblVehicleEF	HHD	3.4760e-003	1.2300e-004
tblVehicleEF	HHD	0.91	0.54
tblVehicleEF	HHD	5.2000e-005	2.0000e-006
tblVehicleEF	HHD	0.08	0.05
tblVehicleEF	HHD	2.3300e-004	5.4600e-004
tblVehicleEF	HHD	0.05	1.0000e-006
tblVehicleEF	HHD	0.06	0.01
tblVehicleEF	HHD	0.01	0.01
tblVehicleEF	HHD	8.5000e-005	0.00
tblVehicleEF	HHD	8.5000e-005	4.0000e-006
tblVehicleEF	HHD	3.4760e-003	1.2300e-004
tblVehicleEF	HHD	1.05	0.62
tblVehicleEF	HHD	5.2000e-005	2.0000e-006
tblVehicleEF	HHD	0.13	0.06
tblVehicleEF	HHD	2.3300e-004	5.4600e-004
tblVehicleEF	HHD	0.06	1.0000e-006
tblVehicleEF	LDA	4.2030e-003	2.4360e-003
tblVehicleEF	LDA	5.6230e-003	0.05
tblVehicleEF	LDA	0.57	0.65
tblVehicleEF	LDA	1.19	2.16
tblVehicleEF	LDA	251.29	261.47
tblVehicleEF	LDA	57.15	53.86
tblVehicleEF	LDA	0.05	0.04

tblVehicleEF	LDA	1.6780e-003	1.4470e-003
tblVehicleEF	LDA	2.2790e-003	1.8580e-003
tblVehicleEF	LDA	1.5460e-003	1.3330e-003
tblVehicleEF	LDA	2.0960e-003	1.7080e-003
tblVehicleEF	LDA	0.04	0.06
tblVehicleEF	LDA	0.10	0.10
tblVehicleEF	LDA	0.03	0.05
tblVehicleEF	LDA	0.01	9.3320e-003
tblVehicleEF	LDA	0.03	0.21
tblVehicleEF	LDA	0.08	0.23
tblVehicleEF	LDA	2.5170e-003	2.5870e-003
tblVehicleEF	LDA	5.9200e-004	5.3300e-004
tblVehicleEF	LDA	0.04	0.06
tblVehicleEF	LDA	0.10	0.10
tblVehicleEF	LDA	0.03	0.05
tblVehicleEF	LDA	0.02	0.01
tblVehicleEF	LDA	0.03	0.21
tblVehicleEF	LDA	0.08	0.25
tblVehicleEF	LDA	4.7900e-003	2.7940e-003
tblVehicleEF	LDA	4.6890e-003	0.04
tblVehicleEF	LDA	0.71	0.79
tblVehicleEF	LDA	0.99	1.79
tblVehicleEF	LDA	274.94	285.54
tblVehicleEF	LDA	57.15	53.16
tblVehicleEF	LDA	0.05	0.04
tblVehicleEF	LDA	1.6780e-003	1.4470e-003
tblVehicleEF	LDA	2.2790e-003	1.8580e-003

tblVehicleEF	LDA	1.5460e-003	1.3330e-003
tblVehicleEF	LDA	2.0960e-003	1.7080e-003
tblVehicleEF	LDA	0.09	0.12
tblVehicleEF	LDA	0.12	0.12
tblVehicleEF	LDA	0.07	0.10
tblVehicleEF	LDA	0.01	0.01
tblVehicleEF	LDA	0.03	0.21
tblVehicleEF	LDA	0.06	0.19
tblVehicleEF	LDA	2.7550e-003	2.8250e-003
tblVehicleEF	LDA	5.8800e-004	5.2600e-004
tblVehicleEF	LDA	0.09	0.12
tblVehicleEF	LDA	0.12	0.12
tblVehicleEF	LDA	0.07	0.10
tblVehicleEF	LDA	0.02	0.02
tblVehicleEF	LDA	0.03	0.21
tblVehicleEF	LDA	0.07	0.21
tblVehicleEF	LDA	4.0860e-003	2.3760e-003
tblVehicleEF	LDA	5.5870e-003	0.05
tblVehicleEF	LDA	0.54	0.61
tblVehicleEF	LDA	1.18	2.12
tblVehicleEF	LDA	245.70	255.84
tblVehicleEF	LDA	57.15	53.80
tblVehicleEF	LDA	0.05	0.04
tblVehicleEF	LDA	1.6780e-003	1.4470e-003
tblVehicleEF	LDA	2.2790e-003	1.8580e-003
tblVehicleEF	LDA	1.5460e-003	1.3330e-003
tblVehicleEF	LDA	2.0960e-003	1.7080e-003

tblVehicleEF	LDA	0.05	0.06
tblVehicleEF	LDA	0.11	0.11
tblVehicleEF	LDA	0.03	0.05
tblVehicleEF	LDA	0.01	9.0880e-003
tblVehicleEF	LDA	0.04	0.24
tblVehicleEF	LDA	0.08	0.23
tblVehicleEF	LDA	2.4600e-003	2.5310e-003
tblVehicleEF	LDA	5.9100e-004	5.3200e-004
tblVehicleEF	LDA	0.05	0.06
tblVehicleEF	LDA	0.11	0.11
tblVehicleEF	LDA	0.03	0.05
tblVehicleEF	LDA	0.01	0.01
tblVehicleEF	LDA	0.04	0.24
tblVehicleEF	LDA	0.08	0.25
tblVehicleEF	LDT1	0.01	7.0610e-003
tblVehicleEF	LDT1	0.02	0.08
tblVehicleEF	LDT1	1.54	1.44
tblVehicleEF	LDT1	3.61	2.44
tblVehicleEF	LDT1	313.68	310.02
tblVehicleEF	LDT1	70.93	65.50
tblVehicleEF	LDT1	0.16	0.13
tblVehicleEF	LDT1	2.7050e-003	2.1940e-003
tblVehicleEF	LDT1	3.6920e-003	2.8520e-003
tblVehicleEF	LDT1	2.4910e-003	2.0190e-003
tblVehicleEF	LDT1	3.3960e-003	2.6220e-003
tblVehicleEF	LDT1	0.18	0.19
tblVehicleEF	LDT1	0.33	0.26

tblVehicleEF	LDT1	0.13	0.13
tblVehicleEF	LDT1	0.03	0.03
tblVehicleEF	LDT1	0.20	0.88
tblVehicleEF	LDT1	0.26	0.43
tblVehicleEF	LDT1	3.1570e-003	3.0680e-003
tblVehicleEF	LDT1	7.7300e-004	6.4800e-004
tblVehicleEF	LDT1	0.18	0.19
tblVehicleEF	LDT1	0.33	0.26
tblVehicleEF	LDT1	0.13	0.13
tblVehicleEF	LDT1	0.05	0.05
tblVehicleEF	LDT1	0.20	0.88
tblVehicleEF	LDT1	0.28	0.48
tblVehicleEF	LDT1	0.02	8.0100e-003
tblVehicleEF	LDT1	0.02	0.07
tblVehicleEF	LDT1	1.85	1.74
tblVehicleEF	LDT1	2.97	2.02
tblVehicleEF	LDT1	341.75	335.16
tblVehicleEF	LDT1	70.93	64.59
tblVehicleEF	LDT1	0.14	0.12
tblVehicleEF	LDT1	2.7050e-003	2.1940e-003
tblVehicleEF	LDT1	3.6920e-003	2.8520e-003
tblVehicleEF	LDT1	2.4910e-003	2.0190e-003
tblVehicleEF	LDT1	3.3960e-003	2.6220e-003
tblVehicleEF	LDT1	0.37	0.40
tblVehicleEF	LDT1	0.41	0.33
tblVehicleEF	LDT1	0.27	0.29
tblVehicleEF	LDT1	0.04	0.04

tblVehicleEF	LDT1	0.20	0.88
tblVehicleEF	LDT1	0.21	0.36
tblVehicleEF	LDT1	3.4420e-003	3.3170e-003
tblVehicleEF	LDT1	7.6200e-004	6.3900e-004
tblVehicleEF	LDT1	0.37	0.40
tblVehicleEF	LDT1	0.41	0.33
tblVehicleEF	LDT1	0.27	0.29
tblVehicleEF	LDT1	0.06	0.05
tblVehicleEF	LDT1	0.20	0.88
tblVehicleEF	LDT1	0.23	0.40
tblVehicleEF	LDT1	0.01	6.8960e-003
tblVehicleEF	LDT1	0.02	0.08
tblVehicleEF	LDT1	1.47	1.37
tblVehicleEF	LDT1	3.55	2.40
tblVehicleEF	LDT1	307.06	304.06
tblVehicleEF	LDT1	70.93	65.42
tblVehicleEF	LDT1	0.15	0.12
tblVehicleEF	LDT1	2.7050e-003	2.1940e-003
tblVehicleEF	LDT1	3.6920e-003	2.8520e-003
tblVehicleEF	LDT1	2.4910e-003	2.0190e-003
tblVehicleEF	LDT1	3.3960e-003	2.6220e-003
tblVehicleEF	LDT1	0.19	0.20
tblVehicleEF	LDT1	0.39	0.30
tblVehicleEF	LDT1	0.12	0.12
tblVehicleEF	LDT1	0.03	0.03
tblVehicleEF	LDT1	0.23	1.03
tblVehicleEF	LDT1	0.25	0.43

tblVehicleEF	LDT1	3.0890e-003	3.0090e-003
tblVehicleEF	LDT1	7.7200e-004	6.4700e-004
tblVehicleEF	LDT1	0.19	0.20
tblVehicleEF	LDT1	0.39	0.30
tblVehicleEF	LDT1	0.12	0.12
tblVehicleEF	LDT1	0.05	0.04
tblVehicleEF	LDT1	0.23	1.03
tblVehicleEF	LDT1	0.28	0.47
tblVehicleEF	LDT2	6.3270e-003	4.2800e-003
tblVehicleEF	LDT2	8.1990e-003	0.07
tblVehicleEF	LDT2	0.80	0.97
tblVehicleEF	LDT2	1.67	2.78
tblVehicleEF	LDT2	351.15	331.49
tblVehicleEF	LDT2	79.39	70.30
tblVehicleEF	LDT2	0.09	0.09
tblVehicleEF	LDT2	1.7270e-003	1.5180e-003
tblVehicleEF	LDT2	2.4170e-003	1.9480e-003
tblVehicleEF	LDT2	1.5880e-003	1.3970e-003
tblVehicleEF	LDT2	2.2220e-003	1.7910e-003
tblVehicleEF	LDT2	0.06	0.10
tblVehicleEF	LDT2	0.13	0.15
tblVehicleEF	LDT2	0.05	0.08
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.07	0.48
tblVehicleEF	LDT2	0.11	0.35
tblVehicleEF	LDT2	3.5180e-003	3.2800e-003
tblVehicleEF	LDT2	8.2200e-004	6.9600e-004

tblVehicleEF	LDT2	0.06	0.10
tblVehicleEF	LDT2	0.13	0.15
tblVehicleEF	LDT2	0.05	0.08
tblVehicleEF	LDT2	0.02	0.03
tblVehicleEF	LDT2	0.07	0.48
tblVehicleEF	LDT2	0.12	0.38
tblVehicleEF	LDT2	7.1840e-003	4.8870e-003
tblVehicleEF	LDT2	6.8290e-003	0.06
tblVehicleEF	LDT2	0.97	1.18
tblVehicleEF	LDT2	1.38	2.30
tblVehicleEF	LDT2	383.36	355.94
tblVehicleEF	LDT2	79.39	69.35
tblVehicleEF	LDT2	0.08	0.08
tblVehicleEF	LDT2	1.7270e-003	1.5180e-003
tblVehicleEF	LDT2	2.4170e-003	1.9480e-003
tblVehicleEF	LDT2	1.5880e-003	1.3970e-003
tblVehicleEF	LDT2	2.2220e-003	1.7910e-003
tblVehicleEF	LDT2	0.13	0.21
tblVehicleEF	LDT2	0.15	0.18
tblVehicleEF	LDT2	0.11	0.18
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.07	0.48
tblVehicleEF	LDT2	0.09	0.29
tblVehicleEF	LDT2	3.8420e-003	3.5220e-003
tblVehicleEF	LDT2	8.1700e-004	6.8600e-004
tblVehicleEF	LDT2	0.13	0.21
tblVehicleEF	LDT2	0.15	0.18

tblVehicleEF	LDT2	0.11	0.18
tblVehicleEF	LDT2	0.03	0.03
tblVehicleEF	LDT2	0.07	0.48
tblVehicleEF	LDT2	0.10	0.32
tblVehicleEF	LDT2	6.1560e-003	4.1770e-003
tblVehicleEF	LDT2	8.1410e-003	0.07
tblVehicleEF	LDT2	0.75	0.92
tblVehicleEF	LDT2	1.64	2.74
tblVehicleEF	LDT2	343.55	325.69
tblVehicleEF	LDT2	79.39	70.22
tblVehicleEF	LDT2	0.08	0.09
tblVehicleEF	LDT2	1.7270e-003	1.5180e-003
tblVehicleEF	LDT2	2.4170e-003	1.9480e-003
tblVehicleEF	LDT2	1.5880e-003	1.3970e-003
tblVehicleEF	LDT2	2.2220e-003	1.7910e-003
tblVehicleEF	LDT2	0.06	0.10
tblVehicleEF	LDT2	0.14	0.16
tblVehicleEF	LDT2	0.05	0.08
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.08	0.56
tblVehicleEF	LDT2	0.11	0.35
tblVehicleEF	LDT2	3.4410e-003	3.2220e-003
tblVehicleEF	LDT2	8.2200e-004	6.9500e-004
tblVehicleEF	LDT2	0.06	0.10
tblVehicleEF	LDT2	0.14	0.16
tblVehicleEF	LDT2	0.05	0.08
tblVehicleEF	LDT2	0.02	0.03

tblVehicleEF	LDT2	0.08	0.56
tblVehicleEF	LDT2	0.12	0.38
tblVehicleEF	LHD1	5.2170e-003	4.8640e-003
tblVehicleEF	LHD1	0.01	6.5090e-003
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	0.14	0.17
tblVehicleEF	LHD1	1.07	0.88
tblVehicleEF	LHD1	2.60	1.03
tblVehicleEF	LHD1	9.23	9.35
tblVehicleEF	LHD1	609.20	648.62
tblVehicleEF	LHD1	30.40	10.79
tblVehicleEF	LHD1	0.09	0.08
tblVehicleEF	LHD1	2.12	1.54
tblVehicleEF	LHD1	9.6500e-004	9.5300e-004
tblVehicleEF	LHD1	0.01	9.9680e-003
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	9.5800e-004	2.6300e-004
tblVehicleEF	LHD1	9.2400e-004	9.1200e-004
tblVehicleEF	LHD1	2.5390e-003	2.4920e-003
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	8.8100e-004	2.4200e-004
tblVehicleEF	LHD1	3.7070e-003	3.1750e-003
tblVehicleEF	LHD1	0.11	0.09
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	1.8240e-003	1.5420e-003
tblVehicleEF	LHD1	0.08	0.07
tblVehicleEF	LHD1	0.35	0.60

tblVehicleEF	LHD1	0.27	0.08
tblVehicleEF	LHD1	9.2000e-005	9.0000e-005
tblVehicleEF	LHD1	5.9760e-003	6.3130e-003
tblVehicleEF	LHD1	3.5300e-004	1.0700e-004
tblVehicleEF	LHD1	3.7070e-003	3.1750e-003
tblVehicleEF	LHD1	0.11	0.09
tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	1.8240e-003	1.5420e-003
tblVehicleEF	LHD1	0.10	0.08
tblVehicleEF	LHD1	0.35	0.60
tblVehicleEF	LHD1	0.29	0.09
tblVehicleEF	LHD1	5.2170e-003	4.8790e-003
tblVehicleEF	LHD1	0.01	6.6670e-003
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	0.14	0.17
tblVehicleEF	LHD1	1.09	0.90
tblVehicleEF	LHD1	2.43	0.97
tblVehicleEF	LHD1	9.23	9.35
tblVehicleEF	LHD1	609.20	648.66
tblVehicleEF	LHD1	30.40	10.67
tblVehicleEF	LHD1	0.09	0.08
tblVehicleEF	LHD1	1.98	1.44
tblVehicleEF	LHD1	9.6500e-004	9.5300e-004
tblVehicleEF	LHD1	0.01	9.9680e-003
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	9.5800e-004	2.6300e-004
tblVehicleEF	LHD1	9.2400e-004	9.1200e-004

tblVehicleEF	LHD1	2.5390e-003	2.4920e-003
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	8.8100e-004	2.4200e-004
tblVehicleEF	LHD1	7.3080e-003	6.2980e-003
tblVehicleEF	LHD1	0.13	0.11
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	4.1220e-003	3.5370e-003
tblVehicleEF	LHD1	0.09	0.07
tblVehicleEF	LHD1	0.36	0.60
tblVehicleEF	LHD1	0.25	0.08
tblVehicleEF	LHD1	9.2000e-005	9.0000e-005
tblVehicleEF	LHD1	5.9770e-003	6.3140e-003
tblVehicleEF	LHD1	3.5000e-004	1.0600e-004
tblVehicleEF	LHD1	7.3080e-003	6.2980e-003
tblVehicleEF	LHD1	0.13	0.11
tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	4.1220e-003	3.5370e-003
tblVehicleEF	LHD1	0.11	0.09
tblVehicleEF	LHD1	0.36	0.60
tblVehicleEF	LHD1	0.28	0.08
tblVehicleEF	LHD1	5.2170e-003	4.8670e-003
tblVehicleEF	LHD1	0.01	6.5250e-003
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	0.14	0.17
tblVehicleEF	LHD1	1.07	0.89
tblVehicleEF	LHD1	2.55	1.02
tblVehicleEF	LHD1	9.23	9.35

tblVehicleEF	LHD1	609.20	648.63
tblVehicleEF	LHD1	30.40	10.76
tblVehicleEF	LHD1	0.09	0.08
tblVehicleEF	LHD1	2.08	1.51
tblVehicleEF	LHD1	9.6500e-004	9.5300e-004
tblVehicleEF	LHD1	0.01	9.9680e-003
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	9.5800e-004	2.6300e-004
tblVehicleEF	LHD1	9.2400e-004	9.1200e-004
tblVehicleEF	LHD1	2.5390e-003	2.4920e-003
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	8.8100e-004	2.4200e-004
tblVehicleEF	LHD1	4.0430e-003	3.5090e-003
tblVehicleEF	LHD1	0.13	0.10
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	1.7940e-003	1.5200e-003
tblVehicleEF	LHD1	0.08	0.07
tblVehicleEF	LHD1	0.38	0.64
tblVehicleEF	LHD1	0.26	0.08
tblVehicleEF	LHD1	9.2000e-005	9.0000e-005
tblVehicleEF	LHD1	5.9760e-003	6.3130e-003
tblVehicleEF	LHD1	3.5200e-004	1.0600e-004
tblVehicleEF	LHD1	4.0430e-003	3.5090e-003
tblVehicleEF	LHD1	0.13	0.10
tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	1.7940e-003	1.5200e-003
tblVehicleEF	LHD1	0.10	0.08

tblVehicleEF	LHD1	0.38	0.64
tblVehicleEF	LHD1	0.29	0.09
tblVehicleEF	LHD2	3.5950e-003	3.3090e-003
tblVehicleEF	LHD2	4.6110e-003	4.1580e-003
tblVehicleEF	LHD2	8.1370e-003	9.5080e-003
tblVehicleEF	LHD2	0.12	0.14
tblVehicleEF	LHD2	0.50	0.56
tblVehicleEF	LHD2	1.20	0.61
tblVehicleEF	LHD2	14.27	14.55
tblVehicleEF	LHD2	608.52	648.96
tblVehicleEF	LHD2	24.46	7.78
tblVehicleEF	LHD2	0.11	0.11
tblVehicleEF	LHD2	1.49	1.65
tblVehicleEF	LHD2	1.2830e-003	1.4030e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	4.0000e-004	1.2600e-004
tblVehicleEF	LHD2	1.2280e-003	1.3430e-003
tblVehicleEF	LHD2	2.6860e-003	2.6930e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	3.6800e-004	1.1600e-004
tblVehicleEF	LHD2	1.3070e-003	1.5580e-003
tblVehicleEF	LHD2	0.04	0.05
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	7.0300e-004	8.0000e-004
tblVehicleEF	LHD2	0.06	0.06
tblVehicleEF	LHD2	0.09	0.29

tblVehicleEF	LHD2	0.11	0.05
tblVehicleEF	LHD2	5.9200e-003	6.2610e-003
tblVehicleEF	LHD2	2.6700e-004	7.7000e-005
tblVehicleEF	LHD2	1.3070e-003	1.5580e-003
tblVehicleEF	LHD2	0.04	0.05
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	7.0300e-004	8.0000e-004
tblVehicleEF	LHD2	0.07	0.07
tblVehicleEF	LHD2	0.09	0.29
tblVehicleEF	LHD2	0.12	0.05
tblVehicleEF	LHD2	3.5950e-003	3.3190e-003
tblVehicleEF	LHD2	4.6760e-003	4.2030e-003
tblVehicleEF	LHD2	7.7630e-003	9.0810e-003
tblVehicleEF	LHD2	0.12	0.14
tblVehicleEF	LHD2	0.50	0.56
tblVehicleEF	LHD2	1.13	0.57
tblVehicleEF	LHD2	14.27	14.55
tblVehicleEF	LHD2	608.52	648.97
tblVehicleEF	LHD2	24.46	7.71
tblVehicleEF	LHD2	0.11	0.11
tblVehicleEF	LHD2	1.40	1.55
tblVehicleEF	LHD2	1.2830e-003	1.4030e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	4.0000e-004	1.2600e-004
tblVehicleEF	LHD2	1.2280e-003	1.3430e-003
tblVehicleEF	LHD2	2.6860e-003	2.6930e-003

tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	3.6800e-004	1.1600e-004
tblVehicleEF	LHD2	2.5220e-003	3.0280e-003
tblVehicleEF	LHD2	0.04	0.06
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	1.5220e-003	1.7650e-003
tblVehicleEF	LHD2	0.06	0.06
tblVehicleEF	LHD2	0.09	0.29
tblVehicleEF	LHD2	0.10	0.04
tblVehicleEF	LHD2	5.9200e-003	6.2610e-003
tblVehicleEF	LHD2	2.6500e-004	7.6000e-005
tblVehicleEF	LHD2	2.5220e-003	3.0280e-003
tblVehicleEF	LHD2	0.04	0.06
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	1.5220e-003	1.7650e-003
tblVehicleEF	LHD2	0.07	0.07
tblVehicleEF	LHD2	0.09	0.29
tblVehicleEF	LHD2	0.11	0.05
tblVehicleEF	LHD2	3.5950e-003	3.3110e-003
tblVehicleEF	LHD2	4.6180e-003	4.1630e-003
tblVehicleEF	LHD2	8.0640e-003	9.4270e-003
tblVehicleEF	LHD2	0.12	0.14
tblVehicleEF	LHD2	0.50	0.56
tblVehicleEF	LHD2	1.19	0.60
tblVehicleEF	LHD2	14.27	14.55
tblVehicleEF	LHD2	608.52	648.96
tblVehicleEF	LHD2	24.46	7.77

tblVehicleEF	LHD2	0.11	0.11
tblVehicleEF	LHD2	1.46	1.62
tblVehicleEF	LHD2	1.2830e-003	1.4030e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	4.0000e-004	1.2600e-004
tblVehicleEF	LHD2	1.2280e-003	1.3430e-003
tblVehicleEF	LHD2	2.6860e-003	2.6930e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	3.6800e-004	1.1600e-004
tblVehicleEF	LHD2	1.3460e-003	1.6400e-003
tblVehicleEF	LHD2	0.04	0.05
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	6.8700e-004	7.8100e-004
tblVehicleEF	LHD2	0.06	0.06
tblVehicleEF	LHD2	0.10	0.31
tblVehicleEF	LHD2	0.11	0.05
tblVehicleEF	LHD2	5.9200e-003	6.2610e-003
tblVehicleEF	LHD2	2.6600e-004	7.7000e-005
tblVehicleEF	LHD2	1.3460e-003	1.6400e-003
tblVehicleEF	LHD2	0.04	0.05
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	6.8700e-004	7.8100e-004
tblVehicleEF	LHD2	0.07	0.07
tblVehicleEF	LHD2	0.10	0.31
tblVehicleEF	LHD2	0.12	0.05
tblVehicleEF	MCY	0.43	0.33

tblVehicleEF	MCY	0.16	0.25
tblVehicleEF	MCY	20.55	20.74
tblVehicleEF	MCY	9.93	8.78
tblVehicleEF	MCY	167.73	210.98
tblVehicleEF	MCY	46.45	61.55
tblVehicleEF	MCY	1.16	1.17
tblVehicleEF	MCY	1.8610e-003	1.8280e-003
tblVehicleEF	MCY	3.6730e-003	3.0520e-003
tblVehicleEF	MCY	1.7420e-003	1.7110e-003
tblVehicleEF	MCY	3.4650e-003	2.8770e-003
tblVehicleEF	MCY	1.45	1.44
tblVehicleEF	MCY	0.84	0.84
tblVehicleEF	MCY	0.80	0.80
tblVehicleEF	MCY	2.23	2.23
tblVehicleEF	MCY	0.49	2.04
tblVehicleEF	MCY	2.16	1.90
tblVehicleEF	MCY	2.0770e-003	2.0880e-003
tblVehicleEF	MCY	6.9000e-004	6.0900e-004
tblVehicleEF	MCY	1.45	1.44
tblVehicleEF	MCY	0.84	0.84
tblVehicleEF	MCY	0.80	0.80
tblVehicleEF	MCY	2.74	2.74
tblVehicleEF	MCY	0.49	2.04
tblVehicleEF	MCY	2.35	2.07
tblVehicleEF	MCY	0.42	0.32
tblVehicleEF	MCY	0.14	0.22
tblVehicleEF	MCY	20.68	20.87

tblVehicleEF	MCY	9.05	7.97
tblVehicleEF	MCY	167.73	210.98
tblVehicleEF	MCY	46.45	59.35
tblVehicleEF	MCY	0.99	0.99
tblVehicleEF	MCY	1.8610e-003	1.8280e-003
tblVehicleEF	MCY	3.6730e-003	3.0520e-003
tblVehicleEF	MCY	1.7420e-003	1.7110e-003
tblVehicleEF	MCY	3.4650e-003	2.8770e-003
tblVehicleEF	MCY	3.14	3.14
tblVehicleEF	MCY	1.27	1.28
tblVehicleEF	MCY	2.13	2.12
tblVehicleEF	MCY	2.17	2.17
tblVehicleEF	MCY	0.49	2.03
tblVehicleEF	MCY	1.86	1.63
tblVehicleEF	MCY	2.0770e-003	2.0880e-003
tblVehicleEF	MCY	6.6700e-004	5.8700e-004
tblVehicleEF	MCY	3.14	3.14
tblVehicleEF	MCY	1.27	1.28
tblVehicleEF	MCY	2.13	2.12
tblVehicleEF	MCY	2.67	2.67
tblVehicleEF	MCY	0.49	2.03
tblVehicleEF	MCY	2.02	1.77
tblVehicleEF	MCY	0.42	0.32
tblVehicleEF	MCY	0.15	0.24
tblVehicleEF	MCY	19.63	19.79
tblVehicleEF	MCY	9.55	8.43
tblVehicleEF	MCY	167.73	209.35

tblVehicleEF	MCY	46.45	60.75
tblVehicleEF	MCY	1.12	1.12
tblVehicleEF	MCY	1.8610e-003	1.8280e-003
tblVehicleEF	MCY	3.6730e-003	3.0520e-003
tblVehicleEF	MCY	1.7420e-003	1.7110e-003
tblVehicleEF	MCY	3.4650e-003	2.8770e-003
tblVehicleEF	MCY	1.71	1.70
tblVehicleEF	MCY	1.13	1.12
tblVehicleEF	MCY	0.72	0.71
tblVehicleEF	MCY	2.19	2.20
tblVehicleEF	MCY	0.56	2.32
tblVehicleEF	MCY	2.08	1.83
tblVehicleEF	MCY	2.0610e-003	2.0720e-003
tblVehicleEF	MCY	6.8200e-004	6.0100e-004
tblVehicleEF	MCY	1.71	1.70
tblVehicleEF	MCY	1.13	1.12
tblVehicleEF	MCY	0.72	0.71
tblVehicleEF	MCY	2.69	2.69
tblVehicleEF	MCY	0.56	2.32
tblVehicleEF	MCY	2.27	1.99
tblVehicleEF	MDV	0.01	5.5560e-003
tblVehicleEF	MDV	0.02	0.09
tblVehicleEF	MDV	1.35	1.14
tblVehicleEF	MDV	3.25	3.33
tblVehicleEF	MDV	483.94	412.02
tblVehicleEF	MDV	107.92	87.05
tblVehicleEF	MDV	0.17	0.12

tblVehicleEF	MDV	1.8260e-003	1.6290e-003
tblVehicleEF	MDV	2.5170e-003	2.0560e-003
tblVehicleEF	MDV	1.6830e-003	1.5030e-003
tblVehicleEF	MDV	2.3150e-003	1.8910e-003
tblVehicleEF	MDV	0.10	0.12
tblVehicleEF	MDV	0.20	0.17
tblVehicleEF	MDV	0.08	0.10
tblVehicleEF	MDV	0.03	0.02
tblVehicleEF	MDV	0.11	0.52
tblVehicleEF	MDV	0.25	0.45
tblVehicleEF	MDV	4.8500e-003	4.0740e-003
tblVehicleEF	MDV	1.1370e-003	8.6100e-004
tblVehicleEF	MDV	0.10	0.12
tblVehicleEF	MDV	0.20	0.17
tblVehicleEF	MDV	0.08	0.10
tblVehicleEF	MDV	0.05	0.03
tblVehicleEF	MDV	0.11	0.52
tblVehicleEF	MDV	0.28	0.50
tblVehicleEF	MDV	0.01	6.3580e-003
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tblVehicleEF	MDV	1.64	1.38
tblVehicleEF	MDV	2.69	2.75
tblVehicleEF	MDV	526.85	437.99
tblVehicleEF	MDV	107.92	85.88
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tblVehicleEF	MDV	1.8260e-003	1.6290e-003
tblVehicleEF	MDV	2.5170e-003	2.0560e-003

tblVehicleEF	MDV	1.6830e-003	1.5030e-003
tblVehicleEF	MDV	2.3150e-003	1.8910e-003
tblVehicleEF	MDV	0.20	0.24
tblVehicleEF	MDV	0.23	0.20
tblVehicleEF	MDV	0.17	0.21
tblVehicleEF	MDV	0.04	0.03
tblVehicleEF	MDV	0.11	0.52
tblVehicleEF	MDV	0.21	0.38
tblVehicleEF	MDV	5.2830e-003	4.3310e-003
tblVehicleEF	MDV	1.1260e-003	8.5000e-004
tblVehicleEF	MDV	0.20	0.24
tblVehicleEF	MDV	0.23	0.20
tblVehicleEF	MDV	0.17	0.21
tblVehicleEF	MDV	0.05	0.04
tblVehicleEF	MDV	0.11	0.52
tblVehicleEF	MDV	0.23	0.42
tblVehicleEF	MDV	0.01	5.4100e-003
tblVehicleEF	MDV	0.02	0.09
tblVehicleEF	MDV	1.28	1.08
tblVehicleEF	MDV	3.20	3.28
tblVehicleEF	MDV	473.93	405.86
tblVehicleEF	MDV	107.92	86.95
tblVehicleEF	MDV	0.16	0.11
tblVehicleEF	MDV	1.8260e-003	1.6290e-003
tblVehicleEF	MDV	2.5170e-003	2.0560e-003
tblVehicleEF	MDV	1.6830e-003	1.5030e-003
tblVehicleEF	MDV	2.3150e-003	1.8910e-003

tblVehicleEF	MDV	0.10	0.11
tblVehicleEF	MDV	0.22	0.19
tblVehicleEF	MDV	0.08	0.10
tblVehicleEF	MDV	0.03	0.02
tblVehicleEF	MDV	0.13	0.60
tblVehicleEF	MDV	0.25	0.45
tblVehicleEF	MDV	4.7490e-003	4.0130e-003
tblVehicleEF	MDV	1.1360e-003	8.6000e-004
tblVehicleEF	MDV	0.10	0.11
tblVehicleEF	MDV	0.22	0.19
tblVehicleEF	MDV	0.08	0.10
tblVehicleEF	MDV	0.04	0.03
tblVehicleEF	MDV	0.13	0.60
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tblVehicleEF	MH	0.04	3.7970e-003
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tblVehicleEF	MH	0.04	0.14
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tblVehicleEF	MH	0.04	0.14
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tblVehicleEF	MH	0.10	0.08
tblVehicleEF	MH	0.03	0.00
tblVehicleEF	MH	0.37	0.00
tblVehicleEF	MH	0.01	8.9930e-003
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tblVehicleEF	MH	0.51	0.00
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tblVehicleEF	MH	0.03	0.00
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tblVehicleEF	MH	3.2230e-003	4.0000e-003
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tblVehicleEF	MH	0.11	0.08
tblVehicleEF	MH	0.03	0.00
tblVehicleEF	MH	0.34	0.00
tblVehicleEF	MH	0.01	8.9930e-003
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tblVehicleEF	MH	0.11	0.00
tblVehicleEF	MH	1.21	0.00
tblVehicleEF	MH	0.15	0.09
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tblVehicleEF	MH	0.38	0.00
tblVehicleEF	MH	0.04	3.7970e-003
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tblVehicleEF	MH	3.2230e-003	4.0000e-003
tblVehicleEF	MH	0.04	0.14
tblVehicleEF	MH	1.0790e-003	0.00

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tblVehicleEF	MH	0.11	0.00
tblVehicleEF	MH	0.53	0.00
tblVehicleEF	MH	0.10	0.08
tblVehicleEF	MH	0.03	0.00
tblVehicleEF	MH	0.37	0.00
tblVehicleEF	MH	0.01	8.9930e-003
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tblVehicleEF	MH	1.75	0.00
tblVehicleEF	MH	0.11	0.00
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tblVehicleEF	MHD	5.0030e-003	0.03

tblVehicleEF	MHD	7.6400e-004	1.0000e-004
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tblVehicleEF	MHD	7.0300e-004	9.2000e-005
tblVehicleEF	MHD	1.2800e-003	5.9300e-004
tblVehicleEF	MHD	0.04	0.02
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tblVehicleEF	MHD	6.5100e-004	3.0000e-004
tblVehicleEF	MHD	0.04	0.05
tblVehicleEF	MHD	0.02	0.11
tblVehicleEF	MHD	0.32	0.04
tblVehicleEF	MHD	1.5080e-003	6.5500e-004
tblVehicleEF	MHD	0.01	9.5250e-003
tblVehicleEF	MHD	6.1700e-004	8.2000e-005
tblVehicleEF	MHD	1.2800e-003	5.9300e-004
tblVehicleEF	MHD	0.04	0.02
tblVehicleEF	MHD	0.03	0.02
tblVehicleEF	MHD	6.5100e-004	3.0000e-004
tblVehicleEF	MHD	0.04	0.06
tblVehicleEF	MHD	0.02	0.11
tblVehicleEF	MHD	0.35	0.05
tblVehicleEF	MHD	0.02	3.0170e-003
tblVehicleEF	MHD	3.5800e-003	3.5290e-003
tblVehicleEF	MHD	0.05	8.1180e-003
tblVehicleEF	MHD	0.24	0.28
tblVehicleEF	MHD	0.28	0.36
tblVehicleEF	MHD	4.97	0.91

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tblVehicleEF	MHD	52.43	8.13
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tblVehicleEF	MHD	3.2500e-004	9.9900e-004
tblVehicleEF	MHD	5.0030e-003	0.03
tblVehicleEF	MHD	7.6400e-004	1.0000e-004
tblVehicleEF	MHD	3.1100e-004	9.5500e-004
tblVehicleEF	MHD	4.7830e-003	0.03
tblVehicleEF	MHD	7.0300e-004	9.2000e-005
tblVehicleEF	MHD	2.5300e-003	1.1740e-003
tblVehicleEF	MHD	0.05	0.02
tblVehicleEF	MHD	0.02	0.02
tblVehicleEF	MHD	1.5010e-003	6.9400e-004
tblVehicleEF	MHD	0.04	0.05
tblVehicleEF	MHD	0.02	0.11
tblVehicleEF	MHD	0.30	0.04
tblVehicleEF	MHD	1.5950e-003	6.6200e-004
tblVehicleEF	MHD	0.01	9.5250e-003
tblVehicleEF	MHD	6.1100e-004	8.1000e-005
tblVehicleEF	MHD	2.5300e-003	1.1740e-003
tblVehicleEF	MHD	0.05	0.02
tblVehicleEF	MHD	0.03	0.02
tblVehicleEF	MHD	1.5010e-003	6.9400e-004
tblVehicleEF	MHD	0.04	0.06
tblVehicleEF	MHD	0.02	0.11

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tblVehicleEF	MHD	0.02	3.4070e-003
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tblVehicleEF	MHD	0.27	0.35
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tblVehicleEF	MHD	1,101.52	999.60
tblVehicleEF	MHD	52.43	8.22
tblVehicleEF	MHD	0.57	0.51
tblVehicleEF	MHD	0.97	1.51
tblVehicleEF	MHD	4.7000e-004	1.4340e-003
tblVehicleEF	MHD	5.0030e-003	0.03
tblVehicleEF	MHD	7.6400e-004	1.0000e-004
tblVehicleEF	MHD	4.4900e-004	1.3720e-003
tblVehicleEF	MHD	4.7830e-003	0.03
tblVehicleEF	MHD	7.0300e-004	9.2000e-005
tblVehicleEF	MHD	1.3890e-003	6.4600e-004
tblVehicleEF	MHD	0.05	0.02
tblVehicleEF	MHD	0.03	0.02
tblVehicleEF	MHD	6.4000e-004	2.9500e-004
tblVehicleEF	MHD	0.04	0.05
tblVehicleEF	MHD	0.02	0.12
tblVehicleEF	MHD	0.32	0.04
tblVehicleEF	MHD	1.3860e-003	6.4600e-004
tblVehicleEF	MHD	0.01	9.5250e-003

tblVehicleEF	MHD	6.1600e-004	8.1000e-005
tblVehicleEF	MHD	1.3890e-003	6.4600e-004
tblVehicleEF	MHD	0.05	0.02
tblVehicleEF	MHD	0.04	0.02
tblVehicleEF	MHD	6.4000e-004	2.9500e-004
tblVehicleEF	MHD	0.04	0.06
tblVehicleEF	MHD	0.02	0.12
tblVehicleEF	MHD	0.35	0.05
tblVehicleEF	OBUS	0.01	9.1480e-003
tblVehicleEF	OBUS	9.9110e-003	8.5440e-003
tblVehicleEF	OBUS	0.03	0.03
tblVehicleEF	OBUS	0.26	0.48
tblVehicleEF	OBUS	0.63	0.98
tblVehicleEF	OBUS	6.27	2.73
tblVehicleEF	OBUS	70.35	66.56
tblVehicleEF	OBUS	1,121.50	1,475.42
tblVehicleEF	OBUS	70.70	21.88
tblVehicleEF	OBUS	0.28	0.29
tblVehicleEF	OBUS	0.97	1.13
tblVehicleEF	OBUS	6.4000e-005	5.0000e-004
tblVehicleEF	OBUS	4.6440e-003	0.01
tblVehicleEF	OBUS	9.2900e-004	2.3000e-004
tblVehicleEF	OBUS	6.1000e-005	4.7800e-004
tblVehicleEF	OBUS	4.4220e-003	0.01
tblVehicleEF	OBUS	8.5400e-004	2.1200e-004
tblVehicleEF	OBUS	2.1800e-003	2.7870e-003
tblVehicleEF	OBUS	0.02	0.03

tblVehicleEF	OBUS	0.04	0.05
tblVehicleEF	OBUS	9.3100e-004	1.1430e-003
tblVehicleEF	OBUS	0.04	0.06
tblVehicleEF	OBUS	0.05	0.31
tblVehicleEF	OBUS	0.38	0.13
tblVehicleEF	OBUS	6.8400e-004	6.3600e-004
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	8.1700e-004	2.1700e-004
tblVehicleEF	OBUS	2.1800e-003	2.7870e-003
tblVehicleEF	OBUS	0.02	0.03
tblVehicleEF	OBUS	0.05	0.07
tblVehicleEF	OBUS	9.3100e-004	1.1430e-003
tblVehicleEF	OBUS	0.06	0.07
tblVehicleEF	OBUS	0.05	0.31
tblVehicleEF	OBUS	0.42	0.14
tblVehicleEF	OBUS	0.01	9.2020e-003
tblVehicleEF	OBUS	0.01	8.7760e-003
tblVehicleEF	OBUS	0.03	0.02
tblVehicleEF	OBUS	0.26	0.47
tblVehicleEF	OBUS	0.65	1.01
tblVehicleEF	OBUS	5.74	2.51
tblVehicleEF	OBUS	73.50	66.43
tblVehicleEF	OBUS	1,121.50	1,475.46
tblVehicleEF	OBUS	70.70	21.50
tblVehicleEF	OBUS	0.29	0.28
tblVehicleEF	OBUS	0.90	1.04
tblVehicleEF	OBUS	5.4000e-005	4.2500e-004

tblVehicleEF	OBUS	4.6440e-003	0.01
tblVehicleEF	OBUS	9.2900e-004	2.3000e-004
tblVehicleEF	OBUS	5.1000e-005	4.0700e-004
tblVehicleEF	OBUS	4.4220e-003	0.01
tblVehicleEF	OBUS	8.5400e-004	2.1200e-004
tblVehicleEF	OBUS	4.2350e-003	5.4310e-003
tblVehicleEF	OBUS	0.02	0.03
tblVehicleEF	OBUS	0.03	0.05
tblVehicleEF	OBUS	2.1330e-003	2.6360e-003
tblVehicleEF	OBUS	0.05	0.06
tblVehicleEF	OBUS	0.05	0.31
tblVehicleEF	OBUS	0.36	0.12
tblVehicleEF	OBUS	7.1400e-004	6.3500e-004
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	8.0800e-004	2.1300e-004
tblVehicleEF	OBUS	4.2350e-003	5.4310e-003
tblVehicleEF	OBUS	0.02	0.03
tblVehicleEF	OBUS	0.05	0.07
tblVehicleEF	OBUS	2.1330e-003	2.6360e-003
tblVehicleEF	OBUS	0.06	0.08
tblVehicleEF	OBUS	0.05	0.31
tblVehicleEF	OBUS	0.40	0.14
tblVehicleEF	OBUS	0.01	9.1130e-003
tblVehicleEF	OBUS	9.9380e-003	8.5700e-003
tblVehicleEF	OBUS	0.03	0.03
tblVehicleEF	OBUS	0.28	0.49
tblVehicleEF	OBUS	0.63	0.99

tblVehicleEF	OBUS	6.22	2.71
tblVehicleEF	OBUS	66.00	66.75
tblVehicleEF	OBUS	1,121.50	1,475.42
tblVehicleEF	OBUS	70.70	21.85
tblVehicleEF	OBUS	0.27	0.30
tblVehicleEF	OBUS	0.96	1.11
tblVehicleEF	OBUS	7.7000e-005	6.0400e-004
tblVehicleEF	OBUS	4.6440e-003	0.01
tblVehicleEF	OBUS	9.2900e-004	2.3000e-004
tblVehicleEF	OBUS	7.4000e-005	5.7800e-004
tblVehicleEF	OBUS	4.4220e-003	0.01
tblVehicleEF	OBUS	8.5400e-004	2.1200e-004
tblVehicleEF	OBUS	2.3200e-003	3.0070e-003
tblVehicleEF	OBUS	0.02	0.03
tblVehicleEF	OBUS	0.04	0.05
tblVehicleEF	OBUS	9.4100e-004	1.1540e-003
tblVehicleEF	OBUS	0.04	0.06
tblVehicleEF	OBUS	0.05	0.33
tblVehicleEF	OBUS	0.38	0.13
tblVehicleEF	OBUS	6.4200e-004	6.3800e-004
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	8.1600e-004	2.1600e-004
tblVehicleEF	OBUS	2.3200e-003	3.0070e-003
tblVehicleEF	OBUS	0.02	0.03
tblVehicleEF	OBUS	0.05	0.06
tblVehicleEF	OBUS	9.4100e-004	1.1540e-003
tblVehicleEF	OBUS	0.06	0.08

tblVehicleEF	OBUS	0.05	0.33
tblVehicleEF	OBUS	0.42	0.14
tblVehicleEF	SBUS	0.84	0.04
tblVehicleEF	SBUS	0.01	6.8550e-003
tblVehicleEF	SBUS	0.07	4.0770e-003
tblVehicleEF	SBUS	5.71	1.90
tblVehicleEF	SBUS	0.65	0.58
tblVehicleEF	SBUS	5.33	0.55
tblVehicleEF	SBUS	1,258.13	336.22
tblVehicleEF	SBUS	1,136.31	1,128.72
tblVehicleEF	SBUS	37.11	3.21
tblVehicleEF	SBUS	11.70	3.35
tblVehicleEF	SBUS	4.77	5.07
tblVehicleEF	SBUS	0.01	4.0350e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.03	0.03
tblVehicleEF	SBUS	5.1700e-004	3.0000e-005
tblVehicleEF	SBUS	0.01	3.8600e-003
tblVehicleEF	SBUS	2.7560e-003	2.7660e-003
tblVehicleEF	SBUS	0.03	0.03
tblVehicleEF	SBUS	4.7500e-004	2.8000e-005
tblVehicleEF	SBUS	2.9260e-003	7.3800e-004
tblVehicleEF	SBUS	0.02	5.5390e-003
tblVehicleEF	SBUS	0.68	0.20
tblVehicleEF	SBUS	1.3050e-003	3.4800e-004
tblVehicleEF	SBUS	0.11	0.10
tblVehicleEF	SBUS	9.3510e-003	0.04

tblVehicleEF	SBUS	0.27	0.02
tblVehicleEF	SBUS	0.01	3.1960e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	4.6300e-004	3.2000e-005
tblVehicleEF	SBUS	2.9260e-003	7.3800e-004
tblVehicleEF	SBUS	0.02	5.5390e-003
tblVehicleEF	SBUS	0.97	0.28
tblVehicleEF	SBUS	1.3050e-003	3.4800e-004
tblVehicleEF	SBUS	0.13	0.11
tblVehicleEF	SBUS	9.3510e-003	0.04
tblVehicleEF	SBUS	0.30	0.03
tblVehicleEF	SBUS	0.84	0.04
tblVehicleEF	SBUS	0.01	6.9390e-003
tblVehicleEF	SBUS	0.06	3.3780e-003
tblVehicleEF	SBUS	5.56	1.86
tblVehicleEF	SBUS	0.66	0.59
tblVehicleEF	SBUS	3.65	0.39
tblVehicleEF	SBUS	1,322.00	344.13
tblVehicleEF	SBUS	1,136.31	1,128.74
tblVehicleEF	SBUS	37.11	2.94
tblVehicleEF	SBUS	12.08	3.42
tblVehicleEF	SBUS	4.47	4.75
tblVehicleEF	SBUS	0.01	3.4090e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.03	0.03
tblVehicleEF	SBUS	5.1700e-004	3.0000e-005
tblVehicleEF	SBUS	9.6490e-003	3.2620e-003

tblVehicleEF	SBUS	2.7560e-003	2.7660e-003
tblVehicleEF	SBUS	0.03	0.03
tblVehicleEF	SBUS	4.7500e-004	2.8000e-005
tblVehicleEF	SBUS	5.6170e-003	1.3280e-003
tblVehicleEF	SBUS	0.02	5.8520e-003
tblVehicleEF	SBUS	0.67	0.20
tblVehicleEF	SBUS	2.8800e-003	6.7400e-004
tblVehicleEF	SBUS	0.11	0.10
tblVehicleEF	SBUS	8.5310e-003	0.03
tblVehicleEF	SBUS	0.22	0.02
tblVehicleEF	SBUS	0.01	3.2700e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	4.3500e-004	2.9000e-005
tblVehicleEF	SBUS	5.6170e-003	1.3280e-003
tblVehicleEF	SBUS	0.02	5.8520e-003
tblVehicleEF	SBUS	0.97	0.28
tblVehicleEF	SBUS	2.8800e-003	6.7400e-004
tblVehicleEF	SBUS	0.13	0.12
tblVehicleEF	SBUS	8.5310e-003	0.03
tblVehicleEF	SBUS	0.24	0.02
tblVehicleEF	SBUS	0.84	0.04
tblVehicleEF	SBUS	0.01	6.8510e-003
tblVehicleEF	SBUS	0.07	4.1760e-003
tblVehicleEF	SBUS	5.91	1.95
tblVehicleEF	SBUS	0.65	0.58
tblVehicleEF	SBUS	5.37	0.57
tblVehicleEF	SBUS	1,169.92	325.30

tblVehicleEF	SBUS	1,136.31	1,128.72
tblVehicleEF	SBUS	37.11	3.24
tblVehicleEF	SBUS	11.19	3.26
tblVehicleEF	SBUS	4.69	4.99
tblVehicleEF	SBUS	0.01	4.8980e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.03	0.03
tblVehicleEF	SBUS	5.1700e-004	3.0000e-005
tblVehicleEF	SBUS	0.01	4.6860e-003
tblVehicleEF	SBUS	2.7560e-003	2.7660e-003
tblVehicleEF	SBUS	0.03	0.03
tblVehicleEF	SBUS	4.7500e-004	2.8000e-005
tblVehicleEF	SBUS	2.9580e-003	7.2600e-004
tblVehicleEF	SBUS	0.02	5.8800e-003
tblVehicleEF	SBUS	0.68	0.20
tblVehicleEF	SBUS	1.2820e-003	3.5300e-004
tblVehicleEF	SBUS	0.11	0.10
tblVehicleEF	SBUS	0.01	0.05
tblVehicleEF	SBUS	0.28	0.02
tblVehicleEF	SBUS	0.01	3.0930e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	4.6400e-004	3.2000e-005
tblVehicleEF	SBUS	2.9580e-003	7.2600e-004
tblVehicleEF	SBUS	0.02	5.8800e-003
tblVehicleEF	SBUS	0.98	0.28
tblVehicleEF	SBUS	1.2820e-003	3.5300e-004
tblVehicleEF	SBUS	0.13	0.11

tblVehicleEF	SBUS	0.01	0.05
tblVehicleEF	SBUS	0.31	0.03
tblVehicleEF	UBUS	1.83	4.19
tblVehicleEF	UBUS	0.08	0.02
tblVehicleEF	UBUS	9.26	32.67
tblVehicleEF	UBUS	14.34	1.43
tblVehicleEF	UBUS	1,846.39	1,724.94
tblVehicleEF	UBUS	136.37	16.90
tblVehicleEF	UBUS	5.87	0.37
tblVehicleEF	UBUS	0.52	0.08
tblVehicleEF	UBUS	0.01	0.03
tblVehicleEF	UBUS	0.07	2.6830e-003
tblVehicleEF	UBUS	1.4030e-003	1.8900e-004
tblVehicleEF	UBUS	0.22	0.03
tblVehicleEF	UBUS	3.0000e-003	6.3130e-003
tblVehicleEF	UBUS	0.06	2.5510e-003
tblVehicleEF	UBUS	1.2900e-003	1.7400e-004
tblVehicleEF	UBUS	8.0860e-003	1.5320e-003
tblVehicleEF	UBUS	0.11	8.4710e-003
tblVehicleEF	UBUS	3.9450e-003	6.5200e-004
tblVehicleEF	UBUS	0.61	0.06
tblVehicleEF	UBUS	0.02	0.04
tblVehicleEF	UBUS	1.15	0.06
tblVehicleEF	UBUS	0.01	3.8820e-003
tblVehicleEF	UBUS	1.6240e-003	1.6700e-004
tblVehicleEF	UBUS	8.0860e-003	1.5320e-003
tblVehicleEF	UBUS	0.11	8.4710e-003

tblVehicleEF	UBUS	3.9450e-003	6.5200e-004
tblVehicleEF	UBUS	2.50	4.28
tblVehicleEF	UBUS	0.02	0.04
tblVehicleEF	UBUS	1.25	0.07
tblVehicleEF	UBUS	1.83	4.19
tblVehicleEF	UBUS	0.08	0.01
tblVehicleEF	UBUS	9.36	32.67
tblVehicleEF	UBUS	11.74	1.17
tblVehicleEF	UBUS	1,846.39	1,724.94
tblVehicleEF	UBUS	136.37	16.47
tblVehicleEF	UBUS	5.45	0.37
tblVehicleEF	UBUS	0.52	0.08
tblVehicleEF	UBUS	0.01	0.03
tblVehicleEF	UBUS	0.07	2.6830e-003
tblVehicleEF	UBUS	1.4030e-003	1.8900e-004
tblVehicleEF	UBUS	0.22	0.03
tblVehicleEF	UBUS	3.0000e-003	6.3130e-003
tblVehicleEF	UBUS	0.06	2.5510e-003
tblVehicleEF	UBUS	1.2900e-003	1.7400e-004
tblVehicleEF	UBUS	0.02	2.9020e-003
tblVehicleEF	UBUS	0.14	0.01
tblVehicleEF	UBUS	9.3320e-003	1.4770e-003
tblVehicleEF	UBUS	0.62	0.06
tblVehicleEF	UBUS	0.02	0.04
tblVehicleEF	UBUS	1.02	0.06
tblVehicleEF	UBUS	0.01	3.8820e-003
tblVehicleEF	UBUS	1.5790e-003	1.6300e-004

tblVehicleEF	UBUS	0.02	2.9020e-003
tblVehicleEF	UBUS	0.14	0.01
tblVehicleEF	UBUS	9.3320e-003	1.4770e-003
tblVehicleEF	UBUS	2.52	4.28
tblVehicleEF	UBUS	0.02	0.04
tblVehicleEF	UBUS	1.12	0.06
tblVehicleEF	UBUS	1.83	4.19
tblVehicleEF	UBUS	0.08	0.02
tblVehicleEF	UBUS	9.27	32.67
tblVehicleEF	UBUS	13.86	1.39
tblVehicleEF	UBUS	1,846.39	1,724.94
tblVehicleEF	UBUS	136.37	16.85
tblVehicleEF	UBUS	5.76	0.37
tblVehicleEF	UBUS	0.52	0.08
tblVehicleEF	UBUS	0.01	0.03
tblVehicleEF	UBUS	0.07	2.6830e-003
tblVehicleEF	UBUS	1.4030e-003	1.8900e-004
tblVehicleEF	UBUS	0.22	0.03
tblVehicleEF	UBUS	3.0000e-003	6.3130e-003
tblVehicleEF	UBUS	0.06	2.5510e-003
tblVehicleEF	UBUS	1.2900e-003	1.7400e-004
tblVehicleEF	UBUS	9.2250e-003	1.6220e-003
tblVehicleEF	UBUS	0.14	9.7130e-003
tblVehicleEF	UBUS	4.1190e-003	6.4800e-004
tblVehicleEF	UBUS	0.61	0.06
tblVehicleEF	UBUS	0.03	0.04
tblVehicleEF	UBUS	1.13	0.06

tblVehicleEF	UBUS	0.01	3.8820e-003
tblVehicleEF	UBUS	1.6160e-003	1.6700e-004
tblVehicleEF	UBUS	9.2250e-003	1.6220e-003
tblVehicleEF	UBUS	0.14	9.7130e-003
tblVehicleEF	UBUS	4.1190e-003	6.4800e-004
tblVehicleEF	UBUS	2.50	4.28
tblVehicleEF	UBUS	0.03	0.04
tblVehicleEF	UBUS	1.24	0.07
tblVehicleTrips	CNW_TTP	41.00	0.00
tblVehicleTrips	CW_TL	16.60	36.00
tblVehicleTrips	CW_TTP	59.00	100.00
tblVehicleTrips	DV_TP	5.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PR_TP	92.00	100.00
tblVehicleTrips	ST_TR	1.68	0.30
tblVehicleTrips	SU_TR	1.68	0.28
tblVehicleTrips	WD_TR	1.68	0.45

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2021	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Maximum	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2021	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Maximum	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	17.1751	1.5900e-003	0.1746	1.0000e-005		6.2000e-004	6.2000e-004		6.2000e-004	6.2000e-004		0.3736	0.3736	9.9000e-004		0.3982
Energy	0.0319	0.2898	0.2434	1.7400e-003		0.0220	0.0220		0.0220	0.0220		347.7207	347.7207	6.6600e-003	6.3700e-003	349.7870
Mobile	1.9630	73.9480	17.0559	0.3026	10.9752	0.7939	11.7691	3.0851	0.7594	3.8445		32,572.4989	32,572.4989	1.0929		32,599.8212
Offroad	0.3661	3.8029	2.2758	9.5100e-003		0.1312	0.1312		0.1207	0.1207		920.3632	920.3632	0.2977		927.8048
Total	**19.5360**	**78.0422**	**19.7496**	**0.3139**	**10.9752**	**0.9477**	**11.9229**	**3.0851**	**0.9028**	**3.9879**		**33,840.9564**	**33,840.9564**	**1.3982**	**6.3700e-003**	**33,877.8112**

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	17.1751	1.5900e-003	0.1746	1.0000e-005		6.2000e-004	6.2000e-004		6.2000e-004	6.2000e-004		0.3736	0.3736	9.9000e-004		0.3982
Energy	0.0319	0.2898	0.2434	1.7400e-003		0.0220	0.0220		0.0220	0.0220		347.7207	347.7207	6.6600e-003	6.3700e-003	349.7870
Mobile	1.9630	73.9480	17.0559	0.3026	10.9752	0.7939	11.7691	3.0851	0.7594	3.8445		32,572.4989	32,572.4989	1.0929		32,599.8212
Offroad	0.3661	3.8029	2.2758	9.5100e-003		0.1312	0.1312		0.1207	0.1207		920.3632	920.3632	0.2977		927.8048
Total	**19.5360**	**78.0422**	**19.7496**	**0.3139**	**10.9752**	**0.9477**	**11.9229**	**3.0851**	**0.9028**	**3.9879**		**33,840.9564**	**33,840.9564**	**1.3982**	**6.3700e-003**	**33,877.8112**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	6/1/2021	5/31/2021	5	0	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 16.3

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	0	8.00	81	0.73
Demolition	Excavators	0	8.00	158	0.38
Demolition	Rubber Tired Dozers	0	8.00	247	0.40

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	0	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Demolition - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

3.2 Demolition - 2021

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	1.9630	73.9480	17.0559	0.3026	10.9752	0.7939	11.7691	3.0851	0.7594	3.8445		32,572.4989	32,572.4989	1.0929		32,599.8212
Unmitigated	1.9630	73.9480	17.0559	0.3026	10.9752	0.7939	11.7691	3.0851	0.7594	3.8445		32,572.4989	32,572.4989	1.0929		32,599.8212

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Other Asphalt Surfaces	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Unrefrigerated Warehouse-No Rail	341.97	229.26	212.14	4,027,177	4,027,177
Total	341.97	229.26	212.14	4,027,177	4,027,177

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Other Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Other Non-Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Parking Lot	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Unrefrigerated Warehouse-No	36.00	8.40	6.90	100.00	0.00	0.00	100	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Other Asphalt Surfaces	0.553113	0.036408	0.180286	0.116335	0.016165	0.005101	0.018218	0.063797	0.001357	0.001565	0.005903	0.000808	0.000944
Other Non-Asphalt Surfaces	0.553113	0.036408	0.180286	0.116335	0.016165	0.005101	0.018218	0.063797	0.001357	0.001565	0.005903	0.000808	0.000944
Parking Lot	0.553113	0.036408	0.180286	0.116335	0.016165	0.005101	0.018218	0.063797	0.001357	0.001565	0.005903	0.000808	0.000944
Unrefrigerated Warehouse-No Rail	0.000000	0.000000	0.000000	0.000000	0.167200	0.000000	0.207200	0.625600	0.000000	0.000000	0.000000	0.000000	0.000000

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.0319	0.2898	0.2434	1.7400e-003		0.0220	0.0220		0.0220	0.0220		347.7207	347.7207	6.6600e-003	6.3700e-003	349.7870
NaturalGas Unmitigated	0.0319	0.2898	0.2434	1.7400e-003		0.0220	0.0220		0.0220	0.0220		347.7207	347.7207	6.6600e-003	6.3700e-003	349.7870

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	2955.63	0.0319	0.2898	0.2434	1.7400e-003		0.0220	0.0220		0.0220	0.0220		347.7207	347.7207	6.6600e-003	6.3700e-003	349.7870
Total		**0.0319**	**0.2898**	**0.2434**	**1.7400e-003**		**0.0220**	**0.0220**		**0.0220**	**0.0220**		**347.7207**	**347.7207**	**6.6600e-003**	**6.3700e-003**	**349.7870**

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	2.95563	0.0319	0.2898	0.2434	1.7400e-003		0.0220	0.0220		0.0220	0.0220		347.7207	347.7207	6.6600e-003	6.3700e-003	349.7870
Total		**0.0319**	**0.2898**	**0.2434**	**1.7400e-003**		**0.0220**	**0.0220**		**0.0220**	**0.0220**		**347.7207**	**347.7207**	**6.6600e-003**	**6.3700e-003**	**349.7870**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	17.1751	1.5900e-003	0.1746	1.0000e-005		6.2000e-004	6.2000e-004		6.2000e-004	6.2000e-004		0.3736	0.3736	9.9000e-004		0.3982
Unmitigated	17.1751	1.5900e-003	0.1746	1.0000e-005		6.2000e-004	6.2000e-004		6.2000e-004	6.2000e-004		0.3736	0.3736	9.9000e-004		0.3982

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	1.9701					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	15.1888					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0162	1.5900e-003	0.1746	1.0000e-005		6.2000e-004	6.2000e-004		6.2000e-004	6.2000e-004		0.3736	0.3736	9.9000e-004		0.3982
Total	**17.1751**	**1.5900e-003**	**0.1746**	**1.0000e-005**		**6.2000e-004**	**6.2000e-004**		**6.2000e-004**	**6.2000e-004**		**0.3736**	**0.3736**	**9.9000e-004**		**0.3982**

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	1.9701					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	15.1888					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0162	1.5900e-003	0.1746	1.0000e-005		6.2000e-004	6.2000e-004		6.2000e-004	6.2000e-004		0.3736	0.3736	9.9000e-004		0.3982
Total	**17.1751**	**1.5900e-003**	**0.1746**	**1.0000e-005**		**6.2000e-004**	**6.2000e-004**		**6.2000e-004**	**6.2000e-004**		**0.3736**	**0.3736**	**9.9000e-004**		**0.3982**

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
Tractors/Loaders/Backhoes	3	4.00	365	200	0.37	CNG

UnMitigated/Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Equipment Type	lb/day										lb/day					
Tractors/Loaders/ Backhoes	0.3661	3.8029	2.2758	9.5100e-003		0.1312	0.1312		0.1207	0.1207		920.3632	920.3632	0.2977		927.8048
Total	**0.3661**	**3.8029**	**2.2758**	**9.5100e-003**		**0.1312**	**0.1312**		**0.1207**	**0.1207**		**920.3632**	**920.3632**	**0.2977**		**927.8048**

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

Fontana Foothill Commerce Center (Operations - Trucks)

San Bernardino-South Coast County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Unrefrigerated Warehouse-No Rail	754.41	1000sqft	17.32	754,408.00	0
Other Asphalt Surfaces	415.94	1000sqft	9.55	415,944.00	0
Other Non-Asphalt Surfaces	132.59	1000sqft	3.04	132,592.00	0
Parking Lot	404.00	Space	3.71	161,600.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	32
Climate Zone	10			**Operational Year**	2022
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	702.44	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Fontana Foothill Commerce Center (Operations - Trucks) - San Bernardino-South Coast County, Winter

Project Characteristics -

Land Use - Unrefrigerated Warehouse - No Rail = High-Cube Short-Term Warehouse; Parking Lot = 404 Standard Spaces; Other Non-Asphalt Surfaces = Landscape area; Other Asphalt Surfaces = Balance

Construction Phase - Operations Run Only.

Off-road Equipment - Operations Run Only.

Trips and VMT - Operations Run Only.

Vehicle Trips - Trip Characteristics based on information provided in the Fontana Foothills Commcerce Center Traffic Impact Analysis report by Urban Crossroads, Inc.

Energy Use - The Project will design building shells and building components to meet 2019 Title 24 Standards which expects 30% less energy for nonresidential uses.

Operational Off-Road Equipment - Based on SCAQMD High Cube Warehouse Truck Trip Study White Paper Summary of Busniess Survey Results (2014)

Fleet Mix - Truck Fleet Mix estimated by rationing the Trip Rates for each truck type based on information provided in the TIA.

Vehicle Emission Factors - EMFAC2017

Vehicle Emission Factors - EMFAC2017

Vehicle Emission Factors - EMFAC2017

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	30.00	0.00
tblEnergyUse	LightingElect	1.17	0.82
tblEnergyUse	T24E	0.37	0.26
tblEnergyUse	T24NG	2.00	1.40
tblFleetMix	HHD	0.06	0.63
tblFleetMix	LDA	0.55	0.00
tblFleetMix	LDT1	0.04	0.00
tblFleetMix	LDT2	0.18	0.00
tblFleetMix	LHD1	0.02	0.17
tblFleetMix	LHD2	5.1010e-003	0.00
tblFleetMix	MCY	5.9030e-003	0.00
tblFleetMix	MDV	0.12	0.00

tblFleetMix	MH	9.4400e-004	0.00
tblFleetMix	MHD	0.02	0.21
tblFleetMix	OBUS	1.3570e-003	0.00
tblFleetMix	SBUS	8.0800e-004	0.00
tblFleetMix	UBUS	1.5650e-003	0.00
tblLandUse	LotAcreage	3.64	3.71
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOperationalOffRoadEquipment	OperDaysPerYear	260.00	365.00
tblOperationalOffRoadEquipment	OperFuelType	Diesel	CNG
tblOperationalOffRoadEquipment	OperHorsePower	97.00	200.00
tblOperationalOffRoadEquipment	OperHoursPerDay	8.00	4.00
tblOperationalOffRoadEquipment	OperOffRoadEquipmentNumber	0.00	3.00
tblVehicleEF	HHD	1.21	0.03
tblVehicleEF	HHD	0.04	0.06
tblVehicleEF	HHD	0.10	0.00
tblVehicleEF	HHD	3.29	8.22
tblVehicleEF	HHD	0.57	0.40
tblVehicleEF	HHD	1.82	2.2600e-003
tblVehicleEF	HHD	6,933.41	1,478.27
tblVehicleEF	HHD	1,475.79	1,372.23
tblVehicleEF	HHD	5.54	0.02
tblVehicleEF	HHD	26.50	7.64
tblVehicleEF	HHD	2.50	2.77
tblVehicleEF	HHD	9.7780e-003	3.7640e-003
tblVehicleEF	HHD	0.06	0.06

tblVehicleEF	HHD	0.04	0.04
tblVehicleEF	HHD	0.01	0.03
tblVehicleEF	HHD	5.1000e-005	1.0000e-006
tblVehicleEF	HHD	9.3550e-003	3.6010e-003
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	8.8810e-003	8.9170e-003
tblVehicleEF	HHD	0.01	0.03
tblVehicleEF	HHD	4.7000e-005	1.0000e-006
tblVehicleEF	HHD	8.5000e-005	3.0000e-006
tblVehicleEF	HHD	3.1910e-003	1.0400e-004
tblVehicleEF	HHD	0.84	0.59
tblVehicleEF	HHD	5.2000e-005	2.0000e-006
tblVehicleEF	HHD	0.08	0.05
tblVehicleEF	HHD	2.1700e-004	5.2200e-004
tblVehicleEF	HHD	0.05	1.0000e-006
tblVehicleEF	HHD	0.07	0.01
tblVehicleEF	HHD	0.01	0.01
tblVehicleEF	HHD	8.6000e-005	0.00
tblVehicleEF	HHD	8.5000e-005	3.0000e-006
tblVehicleEF	HHD	3.1910e-003	1.0400e-004
tblVehicleEF	HHD	0.97	0.67
tblVehicleEF	HHD	5.2000e-005	2.0000e-006
tblVehicleEF	HHD	0.13	0.12
tblVehicleEF	HHD	2.1700e-004	5.2200e-004
tblVehicleEF	HHD	0.06	1.0000e-006
tblVehicleEF	HHD	1.14	0.03
tblVehicleEF	HHD	0.04	0.06

tblVehicleEF	HHD	0.09	0.00
tblVehicleEF	HHD	2.39	8.07
tblVehicleEF	HHD	0.57	0.40
tblVehicleEF	HHD	1.70	2.1220e-003
tblVehicleEF	HHD	7,345.18	1,469.16
tblVehicleEF	HHD	1,475.79	1,372.23
tblVehicleEF	HHD	5.54	0.02
tblVehicleEF	HHD	27.35	7.37
tblVehicleEF	HHD	2.36	2.60
tblVehicleEF	HHD	8.2750e-003	3.3440e-003
tblVehicleEF	HHD	0.06	0.06
tblVehicleEF	HHD	0.04	0.04
tblVehicleEF	HHD	0.01	0.03
tblVehicleEF	HHD	5.1000e-005	1.0000e-006
tblVehicleEF	HHD	7.9170e-003	3.2000e-003
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	8.8810e-003	8.9170e-003
tblVehicleEF	HHD	0.01	0.03
tblVehicleEF	HHD	4.7000e-005	1.0000e-006
tblVehicleEF	HHD	1.6800e-004	7.0000e-006
tblVehicleEF	HHD	3.5970e-003	1.2200e-004
tblVehicleEF	HHD	0.79	0.62
tblVehicleEF	HHD	1.1700e-004	5.0000e-006
tblVehicleEF	HHD	0.08	0.05
tblVehicleEF	HHD	2.2100e-004	5.3900e-004
tblVehicleEF	HHD	0.05	1.0000e-006
tblVehicleEF	HHD	0.07	0.01

tblVehicleEF	HHD	0.01	0.01
tblVehicleEF	HHD	8.4000e-005	0.00
tblVehicleEF	HHD	1.6800e-004	7.0000e-006
tblVehicleEF	HHD	3.5970e-003	1.2200e-004
tblVehicleEF	HHD	0.91	0.71
tblVehicleEF	HHD	1.1700e-004	5.0000e-006
tblVehicleEF	HHD	0.13	0.12
tblVehicleEF	HHD	2.2100e-004	5.3900e-004
tblVehicleEF	HHD	0.06	1.0000e-006
tblVehicleEF	HHD	1.31	0.03
tblVehicleEF	HHD	0.04	2.3610e-003
tblVehicleEF	HHD	0.10	0.00
tblVehicleEF	HHD	4.53	8.37
tblVehicleEF	HHD	0.57	0.25
tblVehicleEF	HHD	1.79	2.2320e-003
tblVehicleEF	HHD	6,364.76	1,476.72
tblVehicleEF	HHD	1,475.79	1,332.53
tblVehicleEF	HHD	5.54	0.02
tblVehicleEF	HHD	25.32	7.94
tblVehicleEF	HHD	2.46	2.69
tblVehicleEF	HHD	0.01	4.1670e-003
tblVehicleEF	HHD	0.06	0.06
tblVehicleEF	HHD	0.04	0.04
tblVehicleEF	HHD	0.01	0.03
tblVehicleEF	HHD	5.1000e-005	1.0000e-006
tblVehicleEF	HHD	0.01	3.9860e-003
tblVehicleEF	HHD	0.03	0.03

tblVehicleEF	HHD	8.8810e-003	8.8160e-003
tblVehicleEF	HHD	0.01	0.03
tblVehicleEF	HHD	4.7000e-005	1.0000e-006
tblVehicleEF	HHD	8.5000e-005	4.0000e-006
tblVehicleEF	HHD	3.4760e-003	1.2300e-004
tblVehicleEF	HHD	0.91	0.54
tblVehicleEF	HHD	5.2000e-005	2.0000e-006
tblVehicleEF	HHD	0.08	0.05
tblVehicleEF	HHD	2.3300e-004	5.4600e-004
tblVehicleEF	HHD	0.05	1.0000e-006
tblVehicleEF	HHD	0.06	0.01
tblVehicleEF	HHD	0.01	0.01
tblVehicleEF	HHD	8.5000e-005	0.00
tblVehicleEF	HHD	8.5000e-005	4.0000e-006
tblVehicleEF	HHD	3.4760e-003	1.2300e-004
tblVehicleEF	HHD	1.05	0.62
tblVehicleEF	HHD	5.2000e-005	2.0000e-006
tblVehicleEF	HHD	0.13	0.06
tblVehicleEF	HHD	2.3300e-004	5.4600e-004
tblVehicleEF	HHD	0.06	1.0000e-006
tblVehicleEF	LDA	4.2030e-003	2.4360e-003
tblVehicleEF	LDA	5.6230e-003	0.05
tblVehicleEF	LDA	0.57	0.65
tblVehicleEF	LDA	1.19	2.16
tblVehicleEF	LDA	251.29	261.47
tblVehicleEF	LDA	57.15	53.86
tblVehicleEF	LDA	0.05	0.04

tblVehicleEF	LDA	1.6780e-003	1.4470e-003
tblVehicleEF	LDA	2.2790e-003	1.8580e-003
tblVehicleEF	LDA	1.5460e-003	1.3330e-003
tblVehicleEF	LDA	2.0960e-003	1.7080e-003
tblVehicleEF	LDA	0.04	0.06
tblVehicleEF	LDA	0.10	0.10
tblVehicleEF	LDA	0.03	0.05
tblVehicleEF	LDA	0.01	9.3320e-003
tblVehicleEF	LDA	0.03	0.21
tblVehicleEF	LDA	0.08	0.23
tblVehicleEF	LDA	2.5170e-003	2.5870e-003
tblVehicleEF	LDA	5.9200e-004	5.3300e-004
tblVehicleEF	LDA	0.04	0.06
tblVehicleEF	LDA	0.10	0.10
tblVehicleEF	LDA	0.03	0.05
tblVehicleEF	LDA	0.02	0.01
tblVehicleEF	LDA	0.03	0.21
tblVehicleEF	LDA	0.08	0.25
tblVehicleEF	LDA	4.7900e-003	2.7940e-003
tblVehicleEF	LDA	4.6890e-003	0.04
tblVehicleEF	LDA	0.71	0.79
tblVehicleEF	LDA	0.99	1.79
tblVehicleEF	LDA	274.94	285.54
tblVehicleEF	LDA	57.15	53.16
tblVehicleEF	LDA	0.05	0.04
tblVehicleEF	LDA	1.6780e-003	1.4470e-003
tblVehicleEF	LDA	2.2790e-003	1.8580e-003

tblVehicleEF	LDA	1.5460e-003	1.3330e-003
tblVehicleEF	LDA	2.0960e-003	1.7080e-003
tblVehicleEF	LDA	0.09	0.12
tblVehicleEF	LDA	0.12	0.12
tblVehicleEF	LDA	0.07	0.10
tblVehicleEF	LDA	0.01	0.01
tblVehicleEF	LDA	0.03	0.21
tblVehicleEF	LDA	0.06	0.19
tblVehicleEF	LDA	2.7550e-003	2.8250e-003
tblVehicleEF	LDA	5.8800e-004	5.2600e-004
tblVehicleEF	LDA	0.09	0.12
tblVehicleEF	LDA	0.12	0.12
tblVehicleEF	LDA	0.07	0.10
tblVehicleEF	LDA	0.02	0.02
tblVehicleEF	LDA	0.03	0.21
tblVehicleEF	LDA	0.07	0.21
tblVehicleEF	LDA	4.0860e-003	2.3760e-003
tblVehicleEF	LDA	5.5870e-003	0.05
tblVehicleEF	LDA	0.54	0.61
tblVehicleEF	LDA	1.18	2.12
tblVehicleEF	LDA	245.70	255.84
tblVehicleEF	LDA	57.15	53.80
tblVehicleEF	LDA	0.05	0.04
tblVehicleEF	LDA	1.6780e-003	1.4470e-003
tblVehicleEF	LDA	2.2790e-003	1.8580e-003
tblVehicleEF	LDA	1.5460e-003	1.3330e-003
tblVehicleEF	LDA	2.0960e-003	1.7080e-003

tblVehicleEF	LDA	0.05	0.06
tblVehicleEF	LDA	0.11	0.11
tblVehicleEF	LDA	0.03	0.05
tblVehicleEF	LDA	0.01	9.0880e-003
tblVehicleEF	LDA	0.04	0.24
tblVehicleEF	LDA	0.08	0.23
tblVehicleEF	LDA	2.4600e-003	2.5310e-003
tblVehicleEF	LDA	5.9100e-004	5.3200e-004
tblVehicleEF	LDA	0.05	0.06
tblVehicleEF	LDA	0.11	0.11
tblVehicleEF	LDA	0.03	0.05
tblVehicleEF	LDA	0.01	0.01
tblVehicleEF	LDA	0.04	0.24
tblVehicleEF	LDA	0.08	0.25
tblVehicleEF	LDT1	0.01	7.0610e-003
tblVehicleEF	LDT1	0.02	0.08
tblVehicleEF	LDT1	1.54	1.44
tblVehicleEF	LDT1	3.61	2.44
tblVehicleEF	LDT1	313.68	310.02
tblVehicleEF	LDT1	70.93	65.50
tblVehicleEF	LDT1	0.16	0.13
tblVehicleEF	LDT1	2.7050e-003	2.1940e-003
tblVehicleEF	LDT1	3.6920e-003	2.8520e-003
tblVehicleEF	LDT1	2.4910e-003	2.0190e-003
tblVehicleEF	LDT1	3.3960e-003	2.6220e-003
tblVehicleEF	LDT1	0.18	0.19
tblVehicleEF	LDT1	0.33	0.26

tblVehicleEF	LDT1	0.13	0.13
tblVehicleEF	LDT1	0.03	0.03
tblVehicleEF	LDT1	0.20	0.88
tblVehicleEF	LDT1	0.26	0.43
tblVehicleEF	LDT1	3.1570e-003	3.0680e-003
tblVehicleEF	LDT1	7.7300e-004	6.4800e-004
tblVehicleEF	LDT1	0.18	0.19
tblVehicleEF	LDT1	0.33	0.26
tblVehicleEF	LDT1	0.13	0.13
tblVehicleEF	LDT1	0.05	0.05
tblVehicleEF	LDT1	0.20	0.88
tblVehicleEF	LDT1	0.28	0.48
tblVehicleEF	LDT1	0.02	8.0100e-003
tblVehicleEF	LDT1	0.02	0.07
tblVehicleEF	LDT1	1.85	1.74
tblVehicleEF	LDT1	2.97	2.02
tblVehicleEF	LDT1	341.75	335.16
tblVehicleEF	LDT1	70.93	64.59
tblVehicleEF	LDT1	0.14	0.12
tblVehicleEF	LDT1	2.7050e-003	2.1940e-003
tblVehicleEF	LDT1	3.6920e-003	2.8520e-003
tblVehicleEF	LDT1	2.4910e-003	2.0190e-003
tblVehicleEF	LDT1	3.3960e-003	2.6220e-003
tblVehicleEF	LDT1	0.37	0.40
tblVehicleEF	LDT1	0.41	0.33
tblVehicleEF	LDT1	0.27	0.29
tblVehicleEF	LDT1	0.04	0.04

tblVehicleEF	LDT1	0.20	0.88
tblVehicleEF	LDT1	0.21	0.36
tblVehicleEF	LDT1	3.4420e-003	3.3170e-003
tblVehicleEF	LDT1	7.6200e-004	6.3900e-004
tblVehicleEF	LDT1	0.37	0.40
tblVehicleEF	LDT1	0.41	0.33
tblVehicleEF	LDT1	0.27	0.29
tblVehicleEF	LDT1	0.06	0.05
tblVehicleEF	LDT1	0.20	0.88
tblVehicleEF	LDT1	0.23	0.40
tblVehicleEF	LDT1	0.01	6.8960e-003
tblVehicleEF	LDT1	0.02	0.08
tblVehicleEF	LDT1	1.47	1.37
tblVehicleEF	LDT1	3.55	2.40
tblVehicleEF	LDT1	307.06	304.06
tblVehicleEF	LDT1	70.93	65.42
tblVehicleEF	LDT1	0.15	0.12
tblVehicleEF	LDT1	2.7050e-003	2.1940e-003
tblVehicleEF	LDT1	3.6920e-003	2.8520e-003
tblVehicleEF	LDT1	2.4910e-003	2.0190e-003
tblVehicleEF	LDT1	3.3960e-003	2.6220e-003
tblVehicleEF	LDT1	0.19	0.20
tblVehicleEF	LDT1	0.39	0.30
tblVehicleEF	LDT1	0.12	0.12
tblVehicleEF	LDT1	0.03	0.03
tblVehicleEF	LDT1	0.23	1.03
tblVehicleEF	LDT1	0.25	0.43

tblVehicleEF	LDT1	3.0890e-003	3.0090e-003
tblVehicleEF	LDT1	7.7200e-004	6.4700e-004
tblVehicleEF	LDT1	0.19	0.20
tblVehicleEF	LDT1	0.39	0.30
tblVehicleEF	LDT1	0.12	0.12
tblVehicleEF	LDT1	0.05	0.04
tblVehicleEF	LDT1	0.23	1.03
tblVehicleEF	LDT1	0.28	0.47
tblVehicleEF	LDT2	6.3270e-003	4.2800e-003
tblVehicleEF	LDT2	8.1990e-003	0.07
tblVehicleEF	LDT2	0.80	0.97
tblVehicleEF	LDT2	1.67	2.78
tblVehicleEF	LDT2	351.15	331.49
tblVehicleEF	LDT2	79.39	70.30
tblVehicleEF	LDT2	0.09	0.09
tblVehicleEF	LDT2	1.7270e-003	1.5180e-003
tblVehicleEF	LDT2	2.4170e-003	1.9480e-003
tblVehicleEF	LDT2	1.5880e-003	1.3970e-003
tblVehicleEF	LDT2	2.2220e-003	1.7910e-003
tblVehicleEF	LDT2	0.06	0.10
tblVehicleEF	LDT2	0.13	0.15
tblVehicleEF	LDT2	0.05	0.08
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.07	0.48
tblVehicleEF	LDT2	0.11	0.35
tblVehicleEF	LDT2	3.5180e-003	3.2800e-003
tblVehicleEF	LDT2	8.2200e-004	6.9600e-004

tblVehicleEF	LDT2	0.06	0.10
tblVehicleEF	LDT2	0.13	0.15
tblVehicleEF	LDT2	0.05	0.08
tblVehicleEF	LDT2	0.02	0.03
tblVehicleEF	LDT2	0.07	0.48
tblVehicleEF	LDT2	0.12	0.38
tblVehicleEF	LDT2	7.1840e-003	4.8870e-003
tblVehicleEF	LDT2	6.8290e-003	0.06
tblVehicleEF	LDT2	0.97	1.18
tblVehicleEF	LDT2	1.38	2.30
tblVehicleEF	LDT2	383.36	355.94
tblVehicleEF	LDT2	79.39	69.35
tblVehicleEF	LDT2	0.08	0.08
tblVehicleEF	LDT2	1.7270e-003	1.5180e-003
tblVehicleEF	LDT2	2.4170e-003	1.9480e-003
tblVehicleEF	LDT2	1.5880e-003	1.3970e-003
tblVehicleEF	LDT2	2.2220e-003	1.7910e-003
tblVehicleEF	LDT2	0.13	0.21
tblVehicleEF	LDT2	0.15	0.18
tblVehicleEF	LDT2	0.11	0.18
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.07	0.48
tblVehicleEF	LDT2	0.09	0.29
tblVehicleEF	LDT2	3.8420e-003	3.5220e-003
tblVehicleEF	LDT2	8.1700e-004	6.8600e-004
tblVehicleEF	LDT2	0.13	0.21
tblVehicleEF	LDT2	0.15	0.18

tblVehicleEF	LDT2	0.11	0.18
tblVehicleEF	LDT2	0.03	0.03
tblVehicleEF	LDT2	0.07	0.48
tblVehicleEF	LDT2	0.10	0.32
tblVehicleEF	LDT2	6.1560e-003	4.1770e-003
tblVehicleEF	LDT2	8.1410e-003	0.07
tblVehicleEF	LDT2	0.75	0.92
tblVehicleEF	LDT2	1.64	2.74
tblVehicleEF	LDT2	343.55	325.69
tblVehicleEF	LDT2	79.39	70.22
tblVehicleEF	LDT2	0.08	0.09
tblVehicleEF	LDT2	1.7270e-003	1.5180e-003
tblVehicleEF	LDT2	2.4170e-003	1.9480e-003
tblVehicleEF	LDT2	1.5880e-003	1.3970e-003
tblVehicleEF	LDT2	2.2220e-003	1.7910e-003
tblVehicleEF	LDT2	0.06	0.10
tblVehicleEF	LDT2	0.14	0.16
tblVehicleEF	LDT2	0.05	0.08
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.08	0.56
tblVehicleEF	LDT2	0.11	0.35
tblVehicleEF	LDT2	3.4410e-003	3.2220e-003
tblVehicleEF	LDT2	8.2200e-004	6.9500e-004
tblVehicleEF	LDT2	0.06	0.10
tblVehicleEF	LDT2	0.14	0.16
tblVehicleEF	LDT2	0.05	0.08
tblVehicleEF	LDT2	0.02	0.03

tblVehicleEF	LDT2	0.08	0.56
tblVehicleEF	LDT2	0.12	0.38
tblVehicleEF	LHD1	5.2170e-003	4.8640e-003
tblVehicleEF	LHD1	0.01	6.5090e-003
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	0.14	0.17
tblVehicleEF	LHD1	1.07	0.88
tblVehicleEF	LHD1	2.60	1.03
tblVehicleEF	LHD1	9.23	9.35
tblVehicleEF	LHD1	609.20	648.62
tblVehicleEF	LHD1	30.40	10.79
tblVehicleEF	LHD1	0.09	0.08
tblVehicleEF	LHD1	2.12	1.54
tblVehicleEF	LHD1	9.6500e-004	9.5300e-004
tblVehicleEF	LHD1	0.01	9.9680e-003
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	9.5800e-004	2.6300e-004
tblVehicleEF	LHD1	9.2400e-004	9.1200e-004
tblVehicleEF	LHD1	2.5390e-003	2.4920e-003
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	8.8100e-004	2.4200e-004
tblVehicleEF	LHD1	3.7070e-003	3.1750e-003
tblVehicleEF	LHD1	0.11	0.09
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	1.8240e-003	1.5420e-003
tblVehicleEF	LHD1	0.08	0.07
tblVehicleEF	LHD1	0.35	0.60

tblVehicleEF	LHD1	0.27	0.08
tblVehicleEF	LHD1	9.2000e-005	9.0000e-005
tblVehicleEF	LHD1	5.9760e-003	6.3130e-003
tblVehicleEF	LHD1	3.5300e-004	1.0700e-004
tblVehicleEF	LHD1	3.7070e-003	3.1750e-003
tblVehicleEF	LHD1	0.11	0.09
tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	1.8240e-003	1.5420e-003
tblVehicleEF	LHD1	0.10	0.08
tblVehicleEF	LHD1	0.35	0.60
tblVehicleEF	LHD1	0.29	0.09
tblVehicleEF	LHD1	5.2170e-003	4.8790e-003
tblVehicleEF	LHD1	0.01	6.6670e-003
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	0.14	0.17
tblVehicleEF	LHD1	1.09	0.90
tblVehicleEF	LHD1	2.43	0.97
tblVehicleEF	LHD1	9.23	9.35
tblVehicleEF	LHD1	609.20	648.66
tblVehicleEF	LHD1	30.40	10.67
tblVehicleEF	LHD1	0.09	0.08
tblVehicleEF	LHD1	1.98	1.44
tblVehicleEF	LHD1	9.6500e-004	9.5300e-004
tblVehicleEF	LHD1	0.01	9.9680e-003
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	9.5800e-004	2.6300e-004
tblVehicleEF	LHD1	9.2400e-004	9.1200e-004

tblVehicleEF	LHD1	2.5390e-003	2.4920e-003
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	8.8100e-004	2.4200e-004
tblVehicleEF	LHD1	7.3080e-003	6.2980e-003
tblVehicleEF	LHD1	0.13	0.11
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	4.1220e-003	3.5370e-003
tblVehicleEF	LHD1	0.09	0.07
tblVehicleEF	LHD1	0.36	0.60
tblVehicleEF	LHD1	0.25	0.08
tblVehicleEF	LHD1	9.2000e-005	9.0000e-005
tblVehicleEF	LHD1	5.9770e-003	6.3140e-003
tblVehicleEF	LHD1	3.5000e-004	1.0600e-004
tblVehicleEF	LHD1	7.3080e-003	6.2980e-003
tblVehicleEF	LHD1	0.13	0.11
tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	4.1220e-003	3.5370e-003
tblVehicleEF	LHD1	0.11	0.09
tblVehicleEF	LHD1	0.36	0.60
tblVehicleEF	LHD1	0.28	0.08
tblVehicleEF	LHD1	5.2170e-003	4.8670e-003
tblVehicleEF	LHD1	0.01	6.5250e-003
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	0.14	0.17
tblVehicleEF	LHD1	1.07	0.89
tblVehicleEF	LHD1	2.55	1.02
tblVehicleEF	LHD1	9.23	9.35

tblVehicleEF	LHD1	609.20	648.63
tblVehicleEF	LHD1	30.40	10.76
tblVehicleEF	LHD1	0.09	0.08
tblVehicleEF	LHD1	2.08	1.51
tblVehicleEF	LHD1	9.6500e-004	9.5300e-004
tblVehicleEF	LHD1	0.01	9.9680e-003
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	9.5800e-004	2.6300e-004
tblVehicleEF	LHD1	9.2400e-004	9.1200e-004
tblVehicleEF	LHD1	2.5390e-003	2.4920e-003
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	8.8100e-004	2.4200e-004
tblVehicleEF	LHD1	4.0430e-003	3.5090e-003
tblVehicleEF	LHD1	0.13	0.10
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	1.7940e-003	1.5200e-003
tblVehicleEF	LHD1	0.08	0.07
tblVehicleEF	LHD1	0.38	0.64
tblVehicleEF	LHD1	0.26	0.08
tblVehicleEF	LHD1	9.2000e-005	9.0000e-005
tblVehicleEF	LHD1	5.9760e-003	6.3130e-003
tblVehicleEF	LHD1	3.5200e-004	1.0600e-004
tblVehicleEF	LHD1	4.0430e-003	3.5090e-003
tblVehicleEF	LHD1	0.13	0.10
tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	1.7940e-003	1.5200e-003
tblVehicleEF	LHD1	0.10	0.08

tblVehicleEF	LHD1	0.38	0.64
tblVehicleEF	LHD1	0.29	0.09
tblVehicleEF	LHD2	3.5950e-003	3.3090e-003
tblVehicleEF	LHD2	4.6110e-003	4.1580e-003
tblVehicleEF	LHD2	8.1370e-003	9.5080e-003
tblVehicleEF	LHD2	0.12	0.14
tblVehicleEF	LHD2	0.50	0.56
tblVehicleEF	LHD2	1.20	0.61
tblVehicleEF	LHD2	14.27	14.55
tblVehicleEF	LHD2	608.52	648.96
tblVehicleEF	LHD2	24.46	7.78
tblVehicleEF	LHD2	0.11	0.11
tblVehicleEF	LHD2	1.49	1.65
tblVehicleEF	LHD2	1.2830e-003	1.4030e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	4.0000e-004	1.2600e-004
tblVehicleEF	LHD2	1.2280e-003	1.3430e-003
tblVehicleEF	LHD2	2.6860e-003	2.6930e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	3.6800e-004	1.1600e-004
tblVehicleEF	LHD2	1.3070e-003	1.5580e-003
tblVehicleEF	LHD2	0.04	0.05
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	7.0300e-004	8.0000e-004
tblVehicleEF	LHD2	0.06	0.06
tblVehicleEF	LHD2	0.09	0.29

tblVehicleEF	LHD2	0.11	0.05
tblVehicleEF	LHD2	5.9200e-003	6.2610e-003
tblVehicleEF	LHD2	2.6700e-004	7.7000e-005
tblVehicleEF	LHD2	1.3070e-003	1.5580e-003
tblVehicleEF	LHD2	0.04	0.05
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	7.0300e-004	8.0000e-004
tblVehicleEF	LHD2	0.07	0.07
tblVehicleEF	LHD2	0.09	0.29
tblVehicleEF	LHD2	0.12	0.05
tblVehicleEF	LHD2	3.5950e-003	3.3190e-003
tblVehicleEF	LHD2	4.6760e-003	4.2030e-003
tblVehicleEF	LHD2	7.7630e-003	9.0810e-003
tblVehicleEF	LHD2	0.12	0.14
tblVehicleEF	LHD2	0.50	0.56
tblVehicleEF	LHD2	1.13	0.57
tblVehicleEF	LHD2	14.27	14.55
tblVehicleEF	LHD2	608.52	648.97
tblVehicleEF	LHD2	24.46	7.71
tblVehicleEF	LHD2	0.11	0.11
tblVehicleEF	LHD2	1.40	1.55
tblVehicleEF	LHD2	1.2830e-003	1.4030e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	4.0000e-004	1.2600e-004
tblVehicleEF	LHD2	1.2280e-003	1.3430e-003
tblVehicleEF	LHD2	2.6860e-003	2.6930e-003

tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	3.6800e-004	1.1600e-004
tblVehicleEF	LHD2	2.5220e-003	3.0280e-003
tblVehicleEF	LHD2	0.04	0.06
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	1.5220e-003	1.7650e-003
tblVehicleEF	LHD2	0.06	0.06
tblVehicleEF	LHD2	0.09	0.29
tblVehicleEF	LHD2	0.10	0.04
tblVehicleEF	LHD2	5.9200e-003	6.2610e-003
tblVehicleEF	LHD2	2.6500e-004	7.6000e-005
tblVehicleEF	LHD2	2.5220e-003	3.0280e-003
tblVehicleEF	LHD2	0.04	0.06
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	1.5220e-003	1.7650e-003
tblVehicleEF	LHD2	0.07	0.07
tblVehicleEF	LHD2	0.09	0.29
tblVehicleEF	LHD2	0.11	0.05
tblVehicleEF	LHD2	3.5950e-003	3.3110e-003
tblVehicleEF	LHD2	4.6180e-003	4.1630e-003
tblVehicleEF	LHD2	8.0640e-003	9.4270e-003
tblVehicleEF	LHD2	0.12	0.14
tblVehicleEF	LHD2	0.50	0.56
tblVehicleEF	LHD2	1.19	0.60
tblVehicleEF	LHD2	14.27	14.55
tblVehicleEF	LHD2	608.52	648.96
tblVehicleEF	LHD2	24.46	7.77

tblVehicleEF	LHD2	0.11	0.11
tblVehicleEF	LHD2	1.46	1.62
tblVehicleEF	LHD2	1.2830e-003	1.4030e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	4.0000e-004	1.2600e-004
tblVehicleEF	LHD2	1.2280e-003	1.3430e-003
tblVehicleEF	LHD2	2.6860e-003	2.6930e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	3.6800e-004	1.1600e-004
tblVehicleEF	LHD2	1.3460e-003	1.6400e-003
tblVehicleEF	LHD2	0.04	0.05
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	6.8700e-004	7.8100e-004
tblVehicleEF	LHD2	0.06	0.06
tblVehicleEF	LHD2	0.10	0.31
tblVehicleEF	LHD2	0.11	0.05
tblVehicleEF	LHD2	5.9200e-003	6.2610e-003
tblVehicleEF	LHD2	2.6600e-004	7.7000e-005
tblVehicleEF	LHD2	1.3460e-003	1.6400e-003
tblVehicleEF	LHD2	0.04	0.05
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	6.8700e-004	7.8100e-004
tblVehicleEF	LHD2	0.07	0.07
tblVehicleEF	LHD2	0.10	0.31
tblVehicleEF	LHD2	0.12	0.05
tblVehicleEF	MCY	0.43	0.33

tblVehicleEF	MCY	0.16	0.25
tblVehicleEF	MCY	20.55	20.74
tblVehicleEF	MCY	9.93	8.78
tblVehicleEF	MCY	167.73	210.98
tblVehicleEF	MCY	46.45	61.55
tblVehicleEF	MCY	1.16	1.17
tblVehicleEF	MCY	1.8610e-003	1.8280e-003
tblVehicleEF	MCY	3.6730e-003	3.0520e-003
tblVehicleEF	MCY	1.7420e-003	1.7110e-003
tblVehicleEF	MCY	3.4650e-003	2.8770e-003
tblVehicleEF	MCY	1.45	1.44
tblVehicleEF	MCY	0.84	0.84
tblVehicleEF	MCY	0.80	0.80
tblVehicleEF	MCY	2.23	2.23
tblVehicleEF	MCY	0.49	2.04
tblVehicleEF	MCY	2.16	1.90
tblVehicleEF	MCY	2.0770e-003	2.0880e-003
tblVehicleEF	MCY	6.9000e-004	6.0900e-004
tblVehicleEF	MCY	1.45	1.44
tblVehicleEF	MCY	0.84	0.84
tblVehicleEF	MCY	0.80	0.80
tblVehicleEF	MCY	2.74	2.74
tblVehicleEF	MCY	0.49	2.04
tblVehicleEF	MCY	2.35	2.07
tblVehicleEF	MCY	0.42	0.32
tblVehicleEF	MCY	0.14	0.22
tblVehicleEF	MCY	20.68	20.87

tblVehicleEF	MCY	9.05	7.97
tblVehicleEF	MCY	167.73	210.98
tblVehicleEF	MCY	46.45	59.35
tblVehicleEF	MCY	0.99	0.99
tblVehicleEF	MCY	1.8610e-003	1.8280e-003
tblVehicleEF	MCY	3.6730e-003	3.0520e-003
tblVehicleEF	MCY	1.7420e-003	1.7110e-003
tblVehicleEF	MCY	3.4650e-003	2.8770e-003
tblVehicleEF	MCY	3.14	3.14
tblVehicleEF	MCY	1.27	1.28
tblVehicleEF	MCY	2.13	2.12
tblVehicleEF	MCY	2.17	2.17
tblVehicleEF	MCY	0.49	2.03
tblVehicleEF	MCY	1.86	1.63
tblVehicleEF	MCY	2.0770e-003	2.0880e-003
tblVehicleEF	MCY	6.6700e-004	5.8700e-004
tblVehicleEF	MCY	3.14	3.14
tblVehicleEF	MCY	1.27	1.28
tblVehicleEF	MCY	2.13	2.12
tblVehicleEF	MCY	2.67	2.67
tblVehicleEF	MCY	0.49	2.03
tblVehicleEF	MCY	2.02	1.77
tblVehicleEF	MCY	0.42	0.32
tblVehicleEF	MCY	0.15	0.24
tblVehicleEF	MCY	19.63	19.79
tblVehicleEF	MCY	9.55	8.43
tblVehicleEF	MCY	167.73	209.35

tblVehicleEF	MCY	46.45	60.75
tblVehicleEF	MCY	1.12	1.12
tblVehicleEF	MCY	1.8610e-003	1.8280e-003
tblVehicleEF	MCY	3.6730e-003	3.0520e-003
tblVehicleEF	MCY	1.7420e-003	1.7110e-003
tblVehicleEF	MCY	3.4650e-003	2.8770e-003
tblVehicleEF	MCY	1.71	1.70
tblVehicleEF	MCY	1.13	1.12
tblVehicleEF	MCY	0.72	0.71
tblVehicleEF	MCY	2.19	2.20
tblVehicleEF	MCY	0.56	2.32
tblVehicleEF	MCY	2.08	1.83
tblVehicleEF	MCY	2.0610e-003	2.0720e-003
tblVehicleEF	MCY	6.8200e-004	6.0100e-004
tblVehicleEF	MCY	1.71	1.70
tblVehicleEF	MCY	1.13	1.12
tblVehicleEF	MCY	0.72	0.71
tblVehicleEF	MCY	2.69	2.69
tblVehicleEF	MCY	0.56	2.32
tblVehicleEF	MCY	2.27	1.99
tblVehicleEF	MDV	0.01	5.5560e-003
tblVehicleEF	MDV	0.02	0.09
tblVehicleEF	MDV	1.35	1.14
tblVehicleEF	MDV	3.25	3.33
tblVehicleEF	MDV	483.94	412.02
tblVehicleEF	MDV	107.92	87.05
tblVehicleEF	MDV	0.17	0.12

tblVehicleEF	MDV	1.8260e-003	1.6290e-003
tblVehicleEF	MDV	2.5170e-003	2.0560e-003
tblVehicleEF	MDV	1.6830e-003	1.5030e-003
tblVehicleEF	MDV	2.3150e-003	1.8910e-003
tblVehicleEF	MDV	0.10	0.12
tblVehicleEF	MDV	0.20	0.17
tblVehicleEF	MDV	0.08	0.10
tblVehicleEF	MDV	0.03	0.02
tblVehicleEF	MDV	0.11	0.52
tblVehicleEF	MDV	0.25	0.45
tblVehicleEF	MDV	4.8500e-003	4.0740e-003
tblVehicleEF	MDV	1.1370e-003	8.6100e-004
tblVehicleEF	MDV	0.10	0.12
tblVehicleEF	MDV	0.20	0.17
tblVehicleEF	MDV	0.08	0.10
tblVehicleEF	MDV	0.05	0.03
tblVehicleEF	MDV	0.11	0.52
tblVehicleEF	MDV	0.28	0.50
tblVehicleEF	MDV	0.01	6.3580e-003
tblVehicleEF	MDV	0.02	0.08
tblVehicleEF	MDV	1.64	1.38
tblVehicleEF	MDV	2.69	2.75
tblVehicleEF	MDV	526.85	437.99
tblVehicleEF	MDV	107.92	85.88
tblVehicleEF	MDV	0.16	0.11
tblVehicleEF	MDV	1.8260e-003	1.6290e-003
tblVehicleEF	MDV	2.5170e-003	2.0560e-003

tblVehicleEF	MDV	1.6830e-003	1.5030e-003
tblVehicleEF	MDV	2.3150e-003	1.8910e-003
tblVehicleEF	MDV	0.20	0.24
tblVehicleEF	MDV	0.23	0.20
tblVehicleEF	MDV	0.17	0.21
tblVehicleEF	MDV	0.04	0.03
tblVehicleEF	MDV	0.11	0.52
tblVehicleEF	MDV	0.21	0.38
tblVehicleEF	MDV	5.2830e-003	4.3310e-003
tblVehicleEF	MDV	1.1260e-003	8.5000e-004
tblVehicleEF	MDV	0.20	0.24
tblVehicleEF	MDV	0.23	0.20
tblVehicleEF	MDV	0.17	0.21
tblVehicleEF	MDV	0.05	0.04
tblVehicleEF	MDV	0.11	0.52
tblVehicleEF	MDV	0.23	0.42
tblVehicleEF	MDV	0.01	5.4100e-003
tblVehicleEF	MDV	0.02	0.09
tblVehicleEF	MDV	1.28	1.08
tblVehicleEF	MDV	3.20	3.28
tblVehicleEF	MDV	473.93	405.86
tblVehicleEF	MDV	107.92	86.95
tblVehicleEF	MDV	0.16	0.11
tblVehicleEF	MDV	1.8260e-003	1.6290e-003
tblVehicleEF	MDV	2.5170e-003	2.0560e-003
tblVehicleEF	MDV	1.6830e-003	1.5030e-003
tblVehicleEF	MDV	2.3150e-003	1.8910e-003

tblVehicleEF	MDV	0.10	0.11
tblVehicleEF	MDV	0.22	0.19
tblVehicleEF	MDV	0.08	0.10
tblVehicleEF	MDV	0.03	0.02
tblVehicleEF	MDV	0.13	0.60
tblVehicleEF	MDV	0.25	0.45
tblVehicleEF	MDV	4.7490e-003	4.0130e-003
tblVehicleEF	MDV	1.1360e-003	8.6000e-004
tblVehicleEF	MDV	0.10	0.11
tblVehicleEF	MDV	0.22	0.19
tblVehicleEF	MDV	0.08	0.10
tblVehicleEF	MDV	0.04	0.03
tblVehicleEF	MDV	0.13	0.60
tblVehicleEF	MDV	0.27	0.49
tblVehicleEF	MH	0.04	3.7970e-003
tblVehicleEF	MH	0.03	0.00
tblVehicleEF	MH	3.07	0.36
tblVehicleEF	MH	6.43	0.00
tblVehicleEF	MH	1,045.05	951.23
tblVehicleEF	MH	59.49	0.00
tblVehicleEF	MH	1.54	4.54
tblVehicleEF	MH	0.01	0.02
tblVehicleEF	MH	0.04	0.14
tblVehicleEF	MH	1.1740e-003	0.00
tblVehicleEF	MH	3.2230e-003	4.0000e-003
tblVehicleEF	MH	0.04	0.14
tblVehicleEF	MH	1.0790e-003	0.00

tblVehicleEF	MH	1.47	0.00
tblVehicleEF	MH	0.09	0.00
tblVehicleEF	MH	0.51	0.00
tblVehicleEF	MH	0.10	0.08
tblVehicleEF	MH	0.03	0.00
tblVehicleEF	MH	0.37	0.00
tblVehicleEF	MH	0.01	8.9930e-003
tblVehicleEF	MH	7.0700e-004	0.00
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tblVehicleEF	MH	0.09	0.00
tblVehicleEF	MH	0.51	0.00
tblVehicleEF	MH	0.14	0.09
tblVehicleEF	MH	0.03	0.00
tblVehicleEF	MH	0.40	0.00
tblVehicleEF	MH	0.04	3.7970e-003
tblVehicleEF	MH	0.03	0.00
tblVehicleEF	MH	3.19	0.36
tblVehicleEF	MH	5.84	0.00
tblVehicleEF	MH	1,045.05	951.23
tblVehicleEF	MH	59.49	0.00
tblVehicleEF	MH	1.41	4.26
tblVehicleEF	MH	0.01	0.02
tblVehicleEF	MH	0.04	0.14
tblVehicleEF	MH	1.1740e-003	0.00
tblVehicleEF	MH	3.2230e-003	4.0000e-003
tblVehicleEF	MH	0.04	0.14
tblVehicleEF	MH	1.0790e-003	0.00

tblVehicleEF	MH	2.91	0.00
tblVehicleEF	MH	0.11	0.00
tblVehicleEF	MH	1.21	0.00
tblVehicleEF	MH	0.11	0.08
tblVehicleEF	MH	0.03	0.00
tblVehicleEF	MH	0.34	0.00
tblVehicleEF	MH	0.01	8.9930e-003
tblVehicleEF	MH	6.9700e-004	0.00
tblVehicleEF	MH	2.91	0.00
tblVehicleEF	MH	0.11	0.00
tblVehicleEF	MH	1.21	0.00
tblVehicleEF	MH	0.15	0.09
tblVehicleEF	MH	0.03	0.00
tblVehicleEF	MH	0.38	0.00
tblVehicleEF	MH	0.04	3.7970e-003
tblVehicleEF	MH	0.03	0.00
tblVehicleEF	MH	3.08	0.36
tblVehicleEF	MH	6.36	0.00
tblVehicleEF	MH	1,045.05	951.23
tblVehicleEF	MH	59.49	0.00
tblVehicleEF	MH	1.51	4.46
tblVehicleEF	MH	0.01	0.02
tblVehicleEF	MH	0.04	0.14
tblVehicleEF	MH	1.1740e-003	0.00
tblVehicleEF	MH	3.2230e-003	4.0000e-003
tblVehicleEF	MH	0.04	0.14
tblVehicleEF	MH	1.0790e-003	0.00

tblVehicleEF	MH	1.75	0.00
tblVehicleEF	MH	0.11	0.00
tblVehicleEF	MH	0.53	0.00
tblVehicleEF	MH	0.10	0.08
tblVehicleEF	MH	0.03	0.00
tblVehicleEF	MH	0.37	0.00
tblVehicleEF	MH	0.01	8.9930e-003
tblVehicleEF	MH	7.0600e-004	0.00
tblVehicleEF	MH	1.75	0.00
tblVehicleEF	MH	0.11	0.00
tblVehicleEF	MH	0.53	0.00
tblVehicleEF	MH	0.15	0.09
tblVehicleEF	MH	0.03	0.00
tblVehicleEF	MH	0.40	0.00
tblVehicleEF	MHD	0.02	3.1740e-003
tblVehicleEF	MHD	3.5160e-003	3.4880e-003
tblVehicleEF	MHD	0.05	8.5120e-003
tblVehicleEF	MHD	0.32	0.34
tblVehicleEF	MHD	0.27	0.35
tblVehicleEF	MHD	5.32	0.97
tblVehicleEF	MHD	156.91	69.07
tblVehicleEF	MHD	1,101.52	999.60
tblVehicleEF	MHD	52.43	8.24
tblVehicleEF	MHD	0.60	0.51
tblVehicleEF	MHD	0.99	1.54
tblVehicleEF	MHD	3.8600e-004	1.1810e-003
tblVehicleEF	MHD	5.0030e-003	0.03

tblVehicleEF	MHD	7.6400e-004	1.0000e-004
tblVehicleEF	MHD	3.6900e-004	1.1300e-003
tblVehicleEF	MHD	4.7830e-003	0.03
tblVehicleEF	MHD	7.0300e-004	9.2000e-005
tblVehicleEF	MHD	1.2800e-003	5.9300e-004
tblVehicleEF	MHD	0.04	0.02
tblVehicleEF	MHD	0.02	0.02
tblVehicleEF	MHD	6.5100e-004	3.0000e-004
tblVehicleEF	MHD	0.04	0.05
tblVehicleEF	MHD	0.02	0.11
tblVehicleEF	MHD	0.32	0.04
tblVehicleEF	MHD	1.5080e-003	6.5500e-004
tblVehicleEF	MHD	0.01	9.5250e-003
tblVehicleEF	MHD	6.1700e-004	8.2000e-005
tblVehicleEF	MHD	1.2800e-003	5.9300e-004
tblVehicleEF	MHD	0.04	0.02
tblVehicleEF	MHD	0.03	0.02
tblVehicleEF	MHD	6.5100e-004	3.0000e-004
tblVehicleEF	MHD	0.04	0.06
tblVehicleEF	MHD	0.02	0.11
tblVehicleEF	MHD	0.35	0.05
tblVehicleEF	MHD	0.02	3.0170e-003
tblVehicleEF	MHD	3.5800e-003	3.5290e-003
tblVehicleEF	MHD	0.05	8.1180e-003
tblVehicleEF	MHD	0.24	0.28
tblVehicleEF	MHD	0.28	0.36
tblVehicleEF	MHD	4.97	0.91

tblVehicleEF	MHD	166.20	69.79
tblVehicleEF	MHD	1,101.52	999.60
tblVehicleEF	MHD	52.43	8.13
tblVehicleEF	MHD	0.62	0.51
tblVehicleEF	MHD	0.92	1.44
tblVehicleEF	MHD	3.2500e-004	9.9900e-004
tblVehicleEF	MHD	5.0030e-003	0.03
tblVehicleEF	MHD	7.6400e-004	1.0000e-004
tblVehicleEF	MHD	3.1100e-004	9.5500e-004
tblVehicleEF	MHD	4.7830e-003	0.03
tblVehicleEF	MHD	7.0300e-004	9.2000e-005
tblVehicleEF	MHD	2.5300e-003	1.1740e-003
tblVehicleEF	MHD	0.05	0.02
tblVehicleEF	MHD	0.02	0.02
tblVehicleEF	MHD	1.5010e-003	6.9400e-004
tblVehicleEF	MHD	0.04	0.05
tblVehicleEF	MHD	0.02	0.11
tblVehicleEF	MHD	0.30	0.04
tblVehicleEF	MHD	1.5950e-003	6.6200e-004
tblVehicleEF	MHD	0.01	9.5250e-003
tblVehicleEF	MHD	6.1100e-004	8.1000e-005
tblVehicleEF	MHD	2.5300e-003	1.1740e-003
tblVehicleEF	MHD	0.05	0.02
tblVehicleEF	MHD	0.03	0.02
tblVehicleEF	MHD	1.5010e-003	6.9400e-004
tblVehicleEF	MHD	0.04	0.06
tblVehicleEF	MHD	0.02	0.11

tblVehicleEF	MHD	0.33	0.05
tblVehicleEF	MHD	0.02	3.4070e-003
tblVehicleEF	MHD	3.5220e-003	3.4910e-003
tblVehicleEF	MHD	0.05	8.4150e-003
tblVehicleEF	MHD	0.45	0.41
tblVehicleEF	MHD	0.27	0.35
tblVehicleEF	MHD	5.23	0.96
tblVehicleEF	MHD	144.06	68.08
tblVehicleEF	MHD	1,101.52	999.60
tblVehicleEF	MHD	52.43	8.22
tblVehicleEF	MHD	0.57	0.51
tblVehicleEF	MHD	0.97	1.51
tblVehicleEF	MHD	4.7000e-004	1.4340e-003
tblVehicleEF	MHD	5.0030e-003	0.03
tblVehicleEF	MHD	7.6400e-004	1.0000e-004
tblVehicleEF	MHD	4.4900e-004	1.3720e-003
tblVehicleEF	MHD	4.7830e-003	0.03
tblVehicleEF	MHD	7.0300e-004	9.2000e-005
tblVehicleEF	MHD	1.3890e-003	6.4600e-004
tblVehicleEF	MHD	0.05	0.02
tblVehicleEF	MHD	0.03	0.02
tblVehicleEF	MHD	6.4000e-004	2.9500e-004
tblVehicleEF	MHD	0.04	0.05
tblVehicleEF	MHD	0.02	0.12
tblVehicleEF	MHD	0.32	0.04
tblVehicleEF	MHD	1.3860e-003	6.4600e-004
tblVehicleEF	MHD	0.01	9.5250e-003

tblVehicleEF	MHD	6.1600e-004	8.1000e-005
tblVehicleEF	MHD	1.3890e-003	6.4600e-004
tblVehicleEF	MHD	0.05	0.02
tblVehicleEF	MHD	0.04	0.02
tblVehicleEF	MHD	6.4000e-004	2.9500e-004
tblVehicleEF	MHD	0.04	0.06
tblVehicleEF	MHD	0.02	0.12
tblVehicleEF	MHD	0.35	0.05
tblVehicleEF	OBUS	0.01	9.1480e-003
tblVehicleEF	OBUS	9.9110e-003	8.5440e-003
tblVehicleEF	OBUS	0.03	0.03
tblVehicleEF	OBUS	0.26	0.48
tblVehicleEF	OBUS	0.63	0.98
tblVehicleEF	OBUS	6.27	2.73
tblVehicleEF	OBUS	70.35	66.56
tblVehicleEF	OBUS	1,121.50	1,475.42
tblVehicleEF	OBUS	70.70	21.88
tblVehicleEF	OBUS	0.28	0.29
tblVehicleEF	OBUS	0.97	1.13
tblVehicleEF	OBUS	6.4000e-005	5.0000e-004
tblVehicleEF	OBUS	4.6440e-003	0.01
tblVehicleEF	OBUS	9.2900e-004	2.3000e-004
tblVehicleEF	OBUS	6.1000e-005	4.7800e-004
tblVehicleEF	OBUS	4.4220e-003	0.01
tblVehicleEF	OBUS	8.5400e-004	2.1200e-004
tblVehicleEF	OBUS	2.1800e-003	2.7870e-003
tblVehicleEF	OBUS	0.02	0.03

tblVehicleEF	OBUS	0.04	0.05
tblVehicleEF	OBUS	9.3100e-004	1.1430e-003
tblVehicleEF	OBUS	0.04	0.06
tblVehicleEF	OBUS	0.05	0.31
tblVehicleEF	OBUS	0.38	0.13
tblVehicleEF	OBUS	6.8400e-004	6.3600e-004
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	8.1700e-004	2.1700e-004
tblVehicleEF	OBUS	2.1800e-003	2.7870e-003
tblVehicleEF	OBUS	0.02	0.03
tblVehicleEF	OBUS	0.05	0.07
tblVehicleEF	OBUS	9.3100e-004	1.1430e-003
tblVehicleEF	OBUS	0.06	0.07
tblVehicleEF	OBUS	0.05	0.31
tblVehicleEF	OBUS	0.42	0.14
tblVehicleEF	OBUS	0.01	9.2020e-003
tblVehicleEF	OBUS	0.01	8.7760e-003
tblVehicleEF	OBUS	0.03	0.02
tblVehicleEF	OBUS	0.26	0.47
tblVehicleEF	OBUS	0.65	1.01
tblVehicleEF	OBUS	5.74	2.51
tblVehicleEF	OBUS	73.50	66.43
tblVehicleEF	OBUS	1,121.50	1,475.46
tblVehicleEF	OBUS	70.70	21.50
tblVehicleEF	OBUS	0.29	0.28
tblVehicleEF	OBUS	0.90	1.04
tblVehicleEF	OBUS	5.4000e-005	4.2500e-004

tblVehicleEF	OBUS	4.6440e-003	0.01
tblVehicleEF	OBUS	9.2900e-004	2.3000e-004
tblVehicleEF	OBUS	5.1000e-005	4.0700e-004
tblVehicleEF	OBUS	4.4220e-003	0.01
tblVehicleEF	OBUS	8.5400e-004	2.1200e-004
tblVehicleEF	OBUS	4.2350e-003	5.4310e-003
tblVehicleEF	OBUS	0.02	0.03
tblVehicleEF	OBUS	0.03	0.05
tblVehicleEF	OBUS	2.1330e-003	2.6360e-003
tblVehicleEF	OBUS	0.05	0.06
tblVehicleEF	OBUS	0.05	0.31
tblVehicleEF	OBUS	0.36	0.12
tblVehicleEF	OBUS	7.1400e-004	6.3500e-004
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	8.0800e-004	2.1300e-004
tblVehicleEF	OBUS	4.2350e-003	5.4310e-003
tblVehicleEF	OBUS	0.02	0.03
tblVehicleEF	OBUS	0.05	0.07
tblVehicleEF	OBUS	2.1330e-003	2.6360e-003
tblVehicleEF	OBUS	0.06	0.08
tblVehicleEF	OBUS	0.05	0.31
tblVehicleEF	OBUS	0.40	0.14
tblVehicleEF	OBUS	0.01	9.1130e-003
tblVehicleEF	OBUS	9.9380e-003	8.5700e-003
tblVehicleEF	OBUS	0.03	0.03
tblVehicleEF	OBUS	0.28	0.49
tblVehicleEF	OBUS	0.63	0.99

tblVehicleEF	OBUS	6.22	2.71
tblVehicleEF	OBUS	66.00	66.75
tblVehicleEF	OBUS	1,121.50	1,475.42
tblVehicleEF	OBUS	70.70	21.85
tblVehicleEF	OBUS	0.27	0.30
tblVehicleEF	OBUS	0.96	1.11
tblVehicleEF	OBUS	7.7000e-005	6.0400e-004
tblVehicleEF	OBUS	4.6440e-003	0.01
tblVehicleEF	OBUS	9.2900e-004	2.3000e-004
tblVehicleEF	OBUS	7.4000e-005	5.7800e-004
tblVehicleEF	OBUS	4.4220e-003	0.01
tblVehicleEF	OBUS	8.5400e-004	2.1200e-004
tblVehicleEF	OBUS	2.3200e-003	3.0070e-003
tblVehicleEF	OBUS	0.02	0.03
tblVehicleEF	OBUS	0.04	0.05
tblVehicleEF	OBUS	9.4100e-004	1.1540e-003
tblVehicleEF	OBUS	0.04	0.06
tblVehicleEF	OBUS	0.05	0.33
tblVehicleEF	OBUS	0.38	0.13
tblVehicleEF	OBUS	6.4200e-004	6.3800e-004
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	8.1600e-004	2.1600e-004
tblVehicleEF	OBUS	2.3200e-003	3.0070e-003
tblVehicleEF	OBUS	0.02	0.03
tblVehicleEF	OBUS	0.05	0.06
tblVehicleEF	OBUS	9.4100e-004	1.1540e-003
tblVehicleEF	OBUS	0.06	0.08

tblVehicleEF	OBUS	0.05	0.33
tblVehicleEF	OBUS	0.42	0.14
tblVehicleEF	SBUS	0.84	0.04
tblVehicleEF	SBUS	0.01	6.8550e-003
tblVehicleEF	SBUS	0.07	4.0770e-003
tblVehicleEF	SBUS	5.71	1.90
tblVehicleEF	SBUS	0.65	0.58
tblVehicleEF	SBUS	5.33	0.55
tblVehicleEF	SBUS	1,258.13	336.22
tblVehicleEF	SBUS	1,136.31	1,128.72
tblVehicleEF	SBUS	37.11	3.21
tblVehicleEF	SBUS	11.70	3.35
tblVehicleEF	SBUS	4.77	5.07
tblVehicleEF	SBUS	0.01	4.0350e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.03	0.03
tblVehicleEF	SBUS	5.1700e-004	3.0000e-005
tblVehicleEF	SBUS	0.01	3.8600e-003
tblVehicleEF	SBUS	2.7560e-003	2.7660e-003
tblVehicleEF	SBUS	0.03	0.03
tblVehicleEF	SBUS	4.7500e-004	2.8000e-005
tblVehicleEF	SBUS	2.9260e-003	7.3800e-004
tblVehicleEF	SBUS	0.02	5.5390e-003
tblVehicleEF	SBUS	0.68	0.20
tblVehicleEF	SBUS	1.3050e-003	3.4800e-004
tblVehicleEF	SBUS	0.11	0.10
tblVehicleEF	SBUS	9.3510e-003	0.04

tblVehicleEF	SBUS	0.27	0.02
tblVehicleEF	SBUS	0.01	3.1960e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	4.6300e-004	3.2000e-005
tblVehicleEF	SBUS	2.9260e-003	7.3800e-004
tblVehicleEF	SBUS	0.02	5.5390e-003
tblVehicleEF	SBUS	0.97	0.28
tblVehicleEF	SBUS	1.3050e-003	3.4800e-004
tblVehicleEF	SBUS	0.13	0.11
tblVehicleEF	SBUS	9.3510e-003	0.04
tblVehicleEF	SBUS	0.30	0.03
tblVehicleEF	SBUS	0.84	0.04
tblVehicleEF	SBUS	0.01	6.9390e-003
tblVehicleEF	SBUS	0.06	3.3780e-003
tblVehicleEF	SBUS	5.56	1.86
tblVehicleEF	SBUS	0.66	0.59
tblVehicleEF	SBUS	3.65	0.39
tblVehicleEF	SBUS	1,322.00	344.13
tblVehicleEF	SBUS	1,136.31	1,128.74
tblVehicleEF	SBUS	37.11	2.94
tblVehicleEF	SBUS	12.08	3.42
tblVehicleEF	SBUS	4.47	4.75
tblVehicleEF	SBUS	0.01	3.4090e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.03	0.03
tblVehicleEF	SBUS	5.1700e-004	3.0000e-005
tblVehicleEF	SBUS	9.6490e-003	3.2620e-003

tblVehicleEF	SBUS	2.7560e-003	2.7660e-003
tblVehicleEF	SBUS	0.03	0.03
tblVehicleEF	SBUS	4.7500e-004	2.8000e-005
tblVehicleEF	SBUS	5.6170e-003	1.3280e-003
tblVehicleEF	SBUS	0.02	5.8520e-003
tblVehicleEF	SBUS	0.67	0.20
tblVehicleEF	SBUS	2.8800e-003	6.7400e-004
tblVehicleEF	SBUS	0.11	0.10
tblVehicleEF	SBUS	8.5310e-003	0.03
tblVehicleEF	SBUS	0.22	0.02
tblVehicleEF	SBUS	0.01	3.2700e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	4.3500e-004	2.9000e-005
tblVehicleEF	SBUS	5.6170e-003	1.3280e-003
tblVehicleEF	SBUS	0.02	5.8520e-003
tblVehicleEF	SBUS	0.97	0.28
tblVehicleEF	SBUS	2.8800e-003	6.7400e-004
tblVehicleEF	SBUS	0.13	0.12
tblVehicleEF	SBUS	8.5310e-003	0.03
tblVehicleEF	SBUS	0.24	0.02
tblVehicleEF	SBUS	0.84	0.04
tblVehicleEF	SBUS	0.01	6.8510e-003
tblVehicleEF	SBUS	0.07	4.1760e-003
tblVehicleEF	SBUS	5.91	1.95
tblVehicleEF	SBUS	0.65	0.58
tblVehicleEF	SBUS	5.37	0.57
tblVehicleEF	SBUS	1,169.92	325.30

tblVehicleEF	SBUS	1,136.31	1,128.72
tblVehicleEF	SBUS	37.11	3.24
tblVehicleEF	SBUS	11.19	3.26
tblVehicleEF	SBUS	4.69	4.99
tblVehicleEF	SBUS	0.01	4.8980e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.03	0.03
tblVehicleEF	SBUS	5.1700e-004	3.0000e-005
tblVehicleEF	SBUS	0.01	4.6860e-003
tblVehicleEF	SBUS	2.7560e-003	2.7660e-003
tblVehicleEF	SBUS	0.03	0.03
tblVehicleEF	SBUS	4.7500e-004	2.8000e-005
tblVehicleEF	SBUS	2.9580e-003	7.2600e-004
tblVehicleEF	SBUS	0.02	5.8800e-003
tblVehicleEF	SBUS	0.68	0.20
tblVehicleEF	SBUS	1.2820e-003	3.5300e-004
tblVehicleEF	SBUS	0.11	0.10
tblVehicleEF	SBUS	0.01	0.05
tblVehicleEF	SBUS	0.28	0.02
tblVehicleEF	SBUS	0.01	3.0930e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	4.6400e-004	3.2000e-005
tblVehicleEF	SBUS	2.9580e-003	7.2600e-004
tblVehicleEF	SBUS	0.02	5.8800e-003
tblVehicleEF	SBUS	0.98	0.28
tblVehicleEF	SBUS	1.2820e-003	3.5300e-004
tblVehicleEF	SBUS	0.13	0.11

tblVehicleEF	SBUS	0.01	0.05
tblVehicleEF	SBUS	0.31	0.03
tblVehicleEF	UBUS	1.83	4.19
tblVehicleEF	UBUS	0.08	0.02
tblVehicleEF	UBUS	9.26	32.67
tblVehicleEF	UBUS	14.34	1.43
tblVehicleEF	UBUS	1,846.39	1,724.94
tblVehicleEF	UBUS	136.37	16.90
tblVehicleEF	UBUS	5.87	0.37
tblVehicleEF	UBUS	0.52	0.08
tblVehicleEF	UBUS	0.01	0.03
tblVehicleEF	UBUS	0.07	2.6830e-003
tblVehicleEF	UBUS	1.4030e-003	1.8900e-004
tblVehicleEF	UBUS	0.22	0.03
tblVehicleEF	UBUS	3.0000e-003	6.3130e-003
tblVehicleEF	UBUS	0.06	2.5510e-003
tblVehicleEF	UBUS	1.2900e-003	1.7400e-004
tblVehicleEF	UBUS	8.0860e-003	1.5320e-003
tblVehicleEF	UBUS	0.11	8.4710e-003
tblVehicleEF	UBUS	3.9450e-003	6.5200e-004
tblVehicleEF	UBUS	0.61	0.06
tblVehicleEF	UBUS	0.02	0.04
tblVehicleEF	UBUS	1.15	0.06
tblVehicleEF	UBUS	0.01	3.8820e-003
tblVehicleEF	UBUS	1.6240e-003	1.6700e-004
tblVehicleEF	UBUS	8.0860e-003	1.5320e-003
tblVehicleEF	UBUS	0.11	8.4710e-003

tblVehicleEF	UBUS	3.9450e-003	6.5200e-004
tblVehicleEF	UBUS	2.50	4.28
tblVehicleEF	UBUS	0.02	0.04
tblVehicleEF	UBUS	1.25	0.07
tblVehicleEF	UBUS	1.83	4.19
tblVehicleEF	UBUS	0.08	0.01
tblVehicleEF	UBUS	9.36	32.67
tblVehicleEF	UBUS	11.74	1.17
tblVehicleEF	UBUS	1,846.39	1,724.94
tblVehicleEF	UBUS	136.37	16.47
tblVehicleEF	UBUS	5.45	0.37
tblVehicleEF	UBUS	0.52	0.08
tblVehicleEF	UBUS	0.01	0.03
tblVehicleEF	UBUS	0.07	2.6830e-003
tblVehicleEF	UBUS	1.4030e-003	1.8900e-004
tblVehicleEF	UBUS	0.22	0.03
tblVehicleEF	UBUS	3.0000e-003	6.3130e-003
tblVehicleEF	UBUS	0.06	2.5510e-003
tblVehicleEF	UBUS	1.2900e-003	1.7400e-004
tblVehicleEF	UBUS	0.02	2.9020e-003
tblVehicleEF	UBUS	0.14	0.01
tblVehicleEF	UBUS	9.3320e-003	1.4770e-003
tblVehicleEF	UBUS	0.62	0.06
tblVehicleEF	UBUS	0.02	0.04
tblVehicleEF	UBUS	1.02	0.06
tblVehicleEF	UBUS	0.01	3.8820e-003
tblVehicleEF	UBUS	1.5790e-003	1.6300e-004

tblVehicleEF	UBUS	0.02	2.9020e-003
tblVehicleEF	UBUS	0.14	0.01
tblVehicleEF	UBUS	9.3320e-003	1.4770e-003
tblVehicleEF	UBUS	2.52	4.28
tblVehicleEF	UBUS	0.02	0.04
tblVehicleEF	UBUS	1.12	0.06
tblVehicleEF	UBUS	1.83	4.19
tblVehicleEF	UBUS	0.08	0.02
tblVehicleEF	UBUS	9.27	32.67
tblVehicleEF	UBUS	13.86	1.39
tblVehicleEF	UBUS	1,846.39	1,724.94
tblVehicleEF	UBUS	136.37	16.85
tblVehicleEF	UBUS	5.76	0.37
tblVehicleEF	UBUS	0.52	0.08
tblVehicleEF	UBUS	0.01	0.03
tblVehicleEF	UBUS	0.07	2.6830e-003
tblVehicleEF	UBUS	1.4030e-003	1.8900e-004
tblVehicleEF	UBUS	0.22	0.03
tblVehicleEF	UBUS	3.0000e-003	6.3130e-003
tblVehicleEF	UBUS	0.06	2.5510e-003
tblVehicleEF	UBUS	1.2900e-003	1.7400e-004
tblVehicleEF	UBUS	9.2250e-003	1.6220e-003
tblVehicleEF	UBUS	0.14	9.7130e-003
tblVehicleEF	UBUS	4.1190e-003	6.4800e-004
tblVehicleEF	UBUS	0.61	0.06
tblVehicleEF	UBUS	0.03	0.04
tblVehicleEF	UBUS	1.13	0.06

tblVehicleEF	UBUS	0.01	3.8820e-003
tblVehicleEF	UBUS	1.6160e-003	1.6700e-004
tblVehicleEF	UBUS	9.2250e-003	1.6220e-003
tblVehicleEF	UBUS	0.14	9.7130e-003
tblVehicleEF	UBUS	4.1190e-003	6.4800e-004
tblVehicleEF	UBUS	2.50	4.28
tblVehicleEF	UBUS	0.03	0.04
tblVehicleEF	UBUS	1.24	0.07
tblVehicleTrips	CNW_TTP	41.00	0.00
tblVehicleTrips	CW_TL	16.60	36.00
tblVehicleTrips	CW_TTP	59.00	100.00
tblVehicleTrips	DV_TP	5.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PR_TP	92.00	100.00
tblVehicleTrips	ST_TR	1.68	0.30
tblVehicleTrips	SU_TR	1.68	0.28
tblVehicleTrips	WD_TR	1.68	0.45

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2021	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Maximum	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2021	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Maximum	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	17.1751	1.5900e-003	0.1746	1.0000e-005		6.2000e-004	6.2000e-004		6.2000e-004	6.2000e-004		0.3736	0.3736	9.9000e-004		0.3982
Energy	0.0319	0.2898	0.2434	1.7400e-003		0.0220	0.0220		0.0220	0.0220		347.7207	347.7207	6.6600e-003	6.3700e-003	349.7870
Mobile	1.8589	76.3292	14.6081	0.3027	10.9565	0.7932	11.7497	3.0784	0.7587	3.8371		31,901.5507	31,901.5507	0.1057		31,904.1934
Offroad	0.3661	3.8029	2.2758	9.5100e-003		0.1312	0.1312		0.1207	0.1207		920.3632	920.3632	0.2977		927.8048
Total	**19.4320**	**80.4234**	**17.3019**	**0.3140**	**10.9565**	**0.9470**	**11.9035**	**3.0784**	**0.9021**	**3.9804**		**33,170.0082**	**33,170.0082**	**0.4110**	**6.3700e-003**	**33,182.1834**

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	17.1751	1.5900e-003	0.1746	1.0000e-005		6.2000e-004	6.2000e-004		6.2000e-004	6.2000e-004		0.3736	0.3736	9.9000e-004		0.3982
Energy	0.0319	0.2898	0.2434	1.7400e-003		0.0220	0.0220		0.0220	0.0220		347.7207	347.7207	6.6600e-003	6.3700e-003	349.7870
Mobile	1.8589	76.3292	14.6081	0.3027	10.9565	0.7932	11.7497	3.0784	0.7587	3.8371		31,901.5507	31,901.5507	0.1057		31,904.1934
Offroad	0.3661	3.8029	2.2758	9.5100e-003		0.1312	0.1312		0.1207	0.1207		920.3632	920.3632	0.2977		927.8048
Total	**19.4320**	**80.4234**	**17.3019**	**0.3140**	**10.9565**	**0.9470**	**11.9035**	**3.0784**	**0.9021**	**3.9804**		**33,170.0082**	**33,170.0082**	**0.4110**	**6.3700e-003**	**33,182.1834**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	6/1/2021	5/31/2021	5	0	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 16.3

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	0	8.00	81	0.73
Demolition	Excavators	0	8.00	158	0.38
Demolition	Rubber Tired Dozers	0	8.00	247	0.40

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	0	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Demolition - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

3.2 Demolition - 2021

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	1.8589	76.3292	14.6081	0.3027	10.9565	0.7932	11.7497	3.0784	0.7587	3.8371		31,901.5507	31,901.5507	0.1057		31,904.1934
Unmitigated	1.8589	76.3292	14.6081	0.3027	10.9565	0.7932	11.7497	3.0784	0.7587	3.8371		31,901.5507	31,901.5507	0.1057		31,904.1934

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Other Asphalt Surfaces	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Unrefrigerated Warehouse-No Rail	341.97	229.26	212.14	4,027,177	4,027,177
Total	341.97	229.26	212.14	4,027,177	4,027,177

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Other Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Other Non-Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Parking Lot	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Unrefrigerated Warehouse-No	36.00	8.40	6.90	100.00	0.00	0.00	100	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Other Asphalt Surfaces	0.553113	0.036408	0.180286	0.116335	0.016165	0.005101	0.018218	0.063797	0.001357	0.001565	0.005903	0.000808	0.000944
Other Non-Asphalt Surfaces	0.553113	0.036408	0.180286	0.116335	0.016165	0.005101	0.018218	0.063797	0.001357	0.001565	0.005903	0.000808	0.000944
Parking Lot	0.553113	0.036408	0.180286	0.116335	0.016165	0.005101	0.018218	0.063797	0.001357	0.001565	0.005903	0.000808	0.000944
Unrefrigerated Warehouse-No Rail	0.000000	0.000000	0.000000	0.000000	0.167200	0.000000	0.207200	0.625600	0.000000	0.000000	0.000000	0.000000	0.000000

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.0319	0.2898	0.2434	1.7400e-003		0.0220	0.0220		0.0220	0.0220		347.7207	347.7207	6.6600e-003	6.3700e-003	349.7870
NaturalGas Unmitigated	0.0319	0.2898	0.2434	1.7400e-003		0.0220	0.0220		0.0220	0.0220		347.7207	347.7207	6.6600e-003	6.3700e-003	349.7870

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	2955.63	0.0319	0.2898	0.2434	1.7400e-003		0.0220	0.0220		0.0220	0.0220		347.7207	347.7207	6.6600e-003	6.3700e-003	349.7870
Total		**0.0319**	**0.2898**	**0.2434**	**1.7400e-003**		**0.0220**	**0.0220**		**0.0220**	**0.0220**		**347.7207**	**347.7207**	**6.6600e-003**	**6.3700e-003**	**349.7870**

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	2.95563	0.0319	0.2898	0.2434	1.7400e-003		0.0220	0.0220		0.0220	0.0220		347.7207	347.7207	6.6600e-003	6.3700e-003	349.7870
Total		**0.0319**	**0.2898**	**0.2434**	**1.7400e-003**		**0.0220**	**0.0220**		**0.0220**	**0.0220**		**347.7207**	**347.7207**	**6.6600e-003**	**6.3700e-003**	**349.7870**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	17.1751	1.5900e-003	0.1746	1.0000e-005		6.2000e-004	6.2000e-004		6.2000e-004	6.2000e-004		0.3736	0.3736	9.9000e-004		0.3982
Unmitigated	17.1751	1.5900e-003	0.1746	1.0000e-005		6.2000e-004	6.2000e-004		6.2000e-004	6.2000e-004		0.3736	0.3736	9.9000e-004		0.3982

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	1.9701					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	15.1888					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0162	1.5900e-003	0.1746	1.0000e-005		6.2000e-004	6.2000e-004		6.2000e-004	6.2000e-004		0.3736	0.3736	9.9000e-004		0.3982
Total	**17.1751**	**1.5900e-003**	**0.1746**	**1.0000e-005**		**6.2000e-004**	**6.2000e-004**		**6.2000e-004**	**6.2000e-004**		**0.3736**	**0.3736**	**9.9000e-004**		**0.3982**

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	1.9701					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	15.1888					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0162	1.5900e-003	0.1746	1.0000e-005		6.2000e-004	6.2000e-004		6.2000e-004	6.2000e-004		0.3736	0.3736	9.9000e-004		0.3982
Total	**17.1751**	**1.5900e-003**	**0.1746**	**1.0000e-005**		**6.2000e-004**	**6.2000e-004**		**6.2000e-004**	**6.2000e-004**		**0.3736**	**0.3736**	**9.9000e-004**		**0.3982**

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
Tractors/Loaders/Backhoes	3	4.00	365	200	0.37	CNG

UnMitigated/Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Equipment Type	lb/day										lb/day					
Tractors/Loaders/Backhoes	0.3661	3.8029	2.2758	9.5100e-003		0.1312	0.1312		0.1207	0.1207		920.3632	920.3632	0.2977		927.8048
Total	**0.3661**	**3.8029**	**2.2758**	**9.5100e-003**		**0.1312**	**0.1312**		**0.1207**	**0.1207**		**920.3632**	**920.3632**	**0.2977**		**927.8048**

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

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APPENDIX 3.5:

SCAQMD AMICUS BRIEF

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S219783

IN THE SUPREME COURT OF C ALIFORNIA

SIERRA CLUB, REVIVE THE SAN JOAQUIN, and
LEAGUE OF WOMEN VOTERS OF FRESNO,

Plaintiffs and Appellants,

v.

COUNTY OF FRESNO,

Defendant and Respondent,

and,

FRIANT RANCH, L.P.,

Real Party in Interest and Respondent.

SUPREME COURT
FILED
APR 13 2015
Frank A. McGuire Clerk
Deputy

After a Published Decision by the Court of Appeal, filed May 27, 2014
Fifth Appellate District Case No. F066798

Appeal from the Superior Court of California, County of Fresno
Case No. 11CECG00726
Honorable Rosendo A. Pena, Jr.

APPLICATION OF THE SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT FOR LEAVE TO FILE BRIEF OF *AMICUS CURIAE* IN SUPPORT OF NEITHER PARTY AND *[PROPOSED]* BRIEF OF *AMICUS CURIAE*

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SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT

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TO THE HONORABLE CHIEF JUSTICE AND JUSTICES OF THE SUPREME COURT:

APPLICATION FOR LEAVE TO FILE *AMICUS CURIAE* BRIEF

Pursuant to Rule 8.520(f) of the California Rules of Court, the South Coast Air Quality Management District (SCAQMD) respectfully requests leave to file the attached *amicus curiae* brief. Because SCAQMD's position differs from that of either party, we request leave to submit this amicus brief in support of neither party.

HOW THIS BRIEF WILL ASSIST THE COURT

SCAQMD's proposed amicus brief takes a position on two of the issues in this case. In both instances, its position differs from that of either party. The issues are:

1) Does the California Environmental Quality Act (CEQA) require an environmental impact report (EIR) to correlate a project's air pollution emissions with specific levels of health impacts?
2) What is the proper standard of review for determining whether an EIR provides sufficient information on the health impacts caused by a project's emission of air pollutants?

This brief will assist the Court by discussing the practical realities of correlating identified air quality impacts with specific health outcomes. In short, CEQA requires agencies to provide detailed information about a project's air quality impacts that is sufficient for the public and decisionmakers to adequately evaluate the project and meaningfully understand its impacts. However, the level of analysis is governed by a rule of reason; CEQA only requires agencies to conduct analysis if it is reasonably feasible to do so.

With regard to health-related air quality impacts, an analysis that correlates a project's air pollution emissions with specific levels of health impacts will be feasible in some cases but not others. Whether it is feasible depends on a variety of factors, including the nature of the project and the nature of the analysis under consideration. The feasibility of analysis may also change over time as air districts and others develop new tools for measuring projects' air quality related health impacts. Because SCAQMD has among the most sophisticated air quality modeling and health impact evaluation capability of any of the air districts in the State, it is uniquely situated to express an opinion on the extent to which the Court should hold that CEQA requires lead agencies to correlate air quality impacts with specific health outcomes.

SCAQMD can also offer a unique perspective on the question of the appropriate standard of review. SCAQMD submits that the proper standard of review for determining whether an EIR is sufficient as an informational document is more nuanced than argued by either party. In our view, this is a mixed question of fact and law. It includes determining whether additional analysis is feasible, which is primarily a factual question that should be reviewed under the substantial evidence standard. However, it also involves determining whether the omission of a particular analysis renders an EIR insufficient to serve CEQA's purpose as a meaningful, informational document. If a lead agency has not determined that a requested analysis is infeasible, it is the court's role to determine whether the EIR nevertheless meets CEQA's purposes, and courts should not defer to the lead agency's conclusions regarding the legal sufficiency of an EIR's analysis. The ultimate question of whether an EIR's analysis is "sufficient" to serve CEQA's informational purposes is predominately a question of law that courts should review de novo.

This brief will explain the rationale for these arguments and may assist the Court in reaching a conclusion that accords proper respect to a lead agency's factual conclusions while maintaining judicial authority over the ultimate question of what level of analysis CEQA requires.

STATEMENT OF INTEREST OF *AMICUS CURIAE*

The SCAQMD is the regional agency primarily responsible for air pollution control in the South Coast Air Basin, which consists of all of Orange County and the non-desert portions of the Los Angeles, Riverside, and San Bernardino Counties. (Health & Saf. Code § 40410; Cal. Code Regs., tit. 17, § 60104.) The SCAQMD participates in the CEQA process in several ways. Sometimes it acts as a lead agency that prepares CEQA documents for projects. Other times it acts as a responsible agency when it has permit authority over some part of a project that is undergoing CEQA review by a different lead agency. Finally, SCAQMD also acts as a commenting agency for CEQA documents that it receives because it is a public agency with jurisdiction by law over natural resources affected by the project.

In all of these capacities, SCAQMD will be affected by the decision in this case. SCAQMD sometimes submits comments requesting that a lead agency perform an additional type of air quality or health impacts analysis. On the other hand, SCAQMD sometimes determines that a particular type of health impact analysis is not feasible or would not produce reliable and informative results. Thus, SCAQMD will be affected by the Court's resolution of the extent to which CEQA requires EIRs to correlate emissions and health impacts, and its resolution of the proper standard of review.

CERTIFICATION REGARDING AUTHORSHIP AND FUNDING

No party or counsel in the pending case authored the proposed amicus curiae brief in whole or in part, or made any monetary contribution intended to fund the preparation or submission of the brief. No person or entity other than the proposed *Amicus Curiae* made any monetary contribution intended to fund the preparation or submission of the brief.

Respectfully submitted,

DATED: April 3, 2015

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BRIEF OF AMICUS CURIAE

SUMMARY OF ARGUMENT

The South Coast Air Quality Management District (SCAQMD) submits that this Court should not try to establish a hard-and-fast rule concerning whether lead agencies are required to correlate emissions of air pollutants with specific health consequences in their environmental impact reports (EIR). The level of detail required in EIRs is governed by a few, core CEQA (California Environmental Quality Act) principles. As this Court has stated, "[a]n EIR must include detail sufficient to enable those who did not participate in its preparation to understand and to consider meaningfully the issues raised by the proposed project." (*Laurel Heights Improvement Assn. v. Regents of the Univ of Cal.* (1988) 47 Cal.3d 376, 405 ["*Laurel Heights I*"]) Accordingly, "an agency must use its best efforts to find out and disclose all that it reasonably can." (*Vineyard Area Citizens for Responsible Growth, Inc. v. City of Rancho Cordova* (2007) 40 Cal.4th 412, 428 (quoting CEQA Guidelines § 15144)[1].). However, "[a]nalysis of environmental effects need not be exhaustive, but will be judged in light of what is reasonably feasible." (*Association of Irritated Residents v. County of Madera* (2003) 107 Cal.App.4th 1383, 1390; CEQA Guidelines §§ 15151, 15204(a).)

With regard to analysis of air quality related health impacts, EIRs must generally quantify a project's pollutant emissions, but in some cases it is not feasible to correlate these emissions to specific, quantifiable health impacts (e.g., premature mortality; hospital admissions). In such cases, a general description of the adverse health impacts resulting from the pollutants at issue may be sufficient. In other cases, due to the magnitude

[1] The CEQA Guidelines are found at Cal. Code Regs., tit. 14 §§ 15000, *et seq.*

or nature of the pollution emissions, as well as the specificity of the project involved, it may be feasible to quantify health impacts. Or there may be a less exacting, but still meaningful analysis of health impacts that can feasibly be performed. In these instances, agencies should disclose those impacts.

SCAQMD also submits that whether or not an EIR complies with CEQA's informational mandates by providing sufficient, feasible analysis is a mixed question of fact and law. Pertinent here, the question of whether an EIR's discussion of health impacts from air pollution is sufficient to allow the public to understand and consider meaningfully the issues involves two inquiries: (1) Is it feasible to provide the information or analysis that a commenter is requesting or a petitioner is arguing should be required?; and (2) Even if it is feasible, is the agency relying on other policy or legal considerations to justify not preparing the requested analysis? The first question of whether an analysis is feasible is primarily a question of fact that should be judged by the substantial evidence standard. The second inquiry involves evaluating CEQA's information disclosure purposes against the asserted reasons to not perform the requested analysis. For example, an agency might believe that its EIR meets CEQA's informational disclosure standards even without a particular analysis, and therefore choose not to conduct that analysis. SCAQMD submits that this is more of a legal question, which should be reviewed de novo as a question of law.

ARGUMENT

I. RELEVANT FACTUAL AND LEGAL FRAMEWORK.

A. Air Quality Regulatory Background

The South Coast Air Quality Management District (SCAQMD) is one of the local and regional air pollution control districts and air quality

management districts in California. The SCAQMD is the regional air pollution agency for the South Coast Air Basin, which consists of all of Orange County and the non-desert portions of Los Angeles, Riverside, and San Bernardino Counties. (Health & Saf. Code § 40410, 17 Cal. Code Reg. § 60104.) The SCAQMD also includes the Coachella Valley in Riverside County (Palm Springs area to the Salton Sea). (SCAQMD, *Final 2012 AQMP (Feb. 2013)*, http://www.aqmd.gov/home/library/clean-air-plans/air-quality-mgt-plan/final-2012-air-quality-management-plan; then follow "chapter 7" hyperlink; pp 7-1, 7-3 (last visited Apr. 1, 2015).) The SCAQMD's jurisdiction includes over 16 million residents and has the worst or nearly the worst air pollution levels in the country for ozone and fine particulate matter. (SCAQMD, *Final 2012 AQMP (Feb. 2013)*, http://www.aqmd.gov/home/library/clean-air-plans/air-quality-mgt-plan/final-2012-air-quality-management-plan; then follow "Executive Summary" hyperlink p. ES-1 (last visited Apr. 1, 2015).)

Under California law, the local and regional districts are primarily responsible for controlling air pollution from all sources except motor vehicles. (Health & Saf. Code § 40000.) The California Air Resources Board (CARB), part of the California Environmental Protection Agency, is primarily responsible for controlling pollution from motor vehicles. (*Id.*) The air districts must adopt rules to achieve and maintain the state and federal ambient air quality standards within their jurisdictions. (Health & Saf. Code § 40001.)

The federal Clean Air Act (CAA) requires the United States Environmental Protection Agency (EPA) to identify pollutants that are widely distributed and pose a threat to human health, developing a so-called "criteria" document. (42 U.S.C. § 7408; CAA § 108.) These pollutants are frequently called "criteria pollutants." EPA must then establish "national ambient air quality standards" at levels "requisite to protect public health",

allowing "an adequate margin of safety." (42 U.S.C. § 7409; CAA § 109.) EPA has set standards for six identified pollutants: ozone, nitrogen dioxide, sulfur dioxide, carbon monoxide, particulate matter (PM), and lead. (U.S. EPA, National Ambient Air Quality Standards (NAAQS), http://www.epa.gov/air/criteria.html (last updated Oct. 21, 2014).)[2]

Under the Clean Air Act, EPA sets emission standards for motor vehicles and "nonroad engines" (mobile farm and construction equipment, marine vessels, locomotives, aircraft, etc.). (42 U.S.C. §§ 7521, 7547; CAA §§ 202, 213.) California is the only state allowed to establish emission standards for motor vehicles and most nonroad sources; however, it may only do so with EPA's approval. (42 U.S.C. §§ 7543(b), 7543(e); CAA §§ 209(b), 209(c).) Sources such as manufacturing facilities, power plants and refineries that are not mobile are often referred to as "stationary sources." The Clean Air Act charges state and local agencies with the primary responsibility to attain the national ambient air quality standards. (42 U.S.C. § 7401(a)(3); CAA § 101(a)(3).) Each state must adopt and implement a plan including enforceable measures to achieve and maintain the national ambient air quality standards. (42 U.S.C. § 7410; CAA § 110.) The SCAQMD and CARB jointly prepare portion of the plan for the South Coast Air Basin and submit it for approval by EPA. (Health & Saf. Code §§ 40460, et seq.)

The Clean Air Act also requires state and local agencies to adopt a permit program requiring, among other things, that new or modified "major" stationary sources use technology to achieve the "lowest achievable emission rate," and to control minor stationary sources as

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[2] Particulate matter (PM) is further divided into two categories: fine particulate or $PM_{2.5}$ (particles with a diameter of less than or equal to 2.5 microns) and coarse particulate (PM_{10}) (particles with a diameter of 10 microns or less). (U.S. EPA, Particulate Matter (PM), http://www.epa.gov/airquality/particlepollution/ (last visited Apr. 1, 2015).)

needed to help attain the standards. (42 U.S.C. §§ 7502(c)(5), 7503(a)(2), 7410(a)(2)(C); CAA §§ 172(c)(5), 173(a)(2), 110(a)(2)(C).) The air districts implement these permit programs in California. (Health & Saf. Code §§ 42300, et seq.)

The Clean Air Act also sets out a regulatory structure for over 100 so-called "hazardous air pollutants" calling for EPA to establish "maximum achievable control technology" (MACT) for sources of these pollutants. (42 U.S.C. § 7412(d)(2); CAA § 112(d)(2).) California refers to these pollutants as "toxic air contaminants" (TACs) which are subject to two state-required programs. The first program requires "air toxics control measures" for specific categories of sources. (Health & Saf. Code § 39666.) The other program requires larger stationary sources and sources identified by air districts to prepare "health risk assessments" for impacts of toxic air contaminants. (Health & Saf. Code §§ 44320(b), 44322, 44360.) If the health risk exceeds levels identified by the district as "significant," the facility must implement a "risk reduction plan" to bring its risk levels below "significant" levels. Air districts may adopt additional more stringent requirements than those required by state law, including requirements for toxic air contaminants. (Health & Saf. Code § 41508; *Western Oil & Gas Assn. v. Monterey Bay Unified APCD* (1989) 49 Cal.3d 408, 414.) For example, SCAQMD has adopted a rule requiring new or modified sources to keep their risks below specified levels and use best available control technology (BACT) for toxics. (SCAQMD, *Rule 1401-New Source Review of Toxic Air Contaminants*, http://www.aqmd.gov/home/regulations/rules/scaqmd-rule-book/regulation-xiv; then follow "Rule 1401" hyperlink (last visited Apr. 1, 2015).)

B. The SCAQMD's Role Under CEQA

The California Environmental Quality Act (CEQA) requires public agencies to perform an environmental review and appropriate analysis for projects that they implement or approve. (Pub. Resources Code § 21080(a).) The agency with primary approval authority for a particular project is generally the "lead agency" that prepares the appropriate CEQA document. (CEQA Guidelines §§ 15050, 15051.) Other agencies having a subsequent approval authority over all or part of a project are called "responsible" agencies that must determine whether the CEQA document is adequate for their use. (CEQA Guidelines §§ 15096(c), 15381.) Lead agencies must also consult with and circulate their environmental impact reports to "trustee agencies" and agencies "with jurisdiction by law" including "authority over resources which may be affected by the project." (Pub. Resources Code §§ 21104(a), 21153; CEQA Guidelines §§ 15086(a)(3), 15073(c).) The SCAQMD has a role in all these aspects of CEQA.

Fulfilling its responsibilities to implement its air quality plan and adopt rules to attain the national ambient air quality standards, SCAQMD adopts a dozen or more rules each year to require pollution reductions from a wide variety of sources. The SCAQMD staff evaluates each rule for any adverse environmental impact and prepares the appropriate CEQA document. Although most rules reduce air emissions, they may have secondary environmental impacts such as use of water or energy or disposal of waste—e.g., spent catalyst from control equipment.[3]

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[3] The SCAQMD's CEQA program for its rules is a "Certified Regulatory Program" under which it prepares a "functionally equivalent" document in lieu of a negative declaration or EIR. (Pub. Resources Code § 21080.5, CEQA Guidelines § 15251(l).)

The SCAQMD also approves a large number of permits every year to construct new, modified, or replacement facilities that emit regulated air pollutants. The majority of these air pollutant sources have already been included in an earlier CEQA evaluation for a larger project, are currently being evaluated by a local government as lead agency, or qualify for an exemption. However, the SCAQMD sometimes acts as lead agency for major projects where the local government does not have a discretionary approval. In such cases, SCAQMD prepares and certifies a negative declaration or environmental impact report (EIR) as appropriate.[4] SCAQMD evaluates perhaps a dozen such permit projects under CEQA each year. SCAQMD is often also a "responsible agency" for many projects since it must issue a permit for part of the projects (e.g., a boiler used to provide heat in a commercial building). For permit projects evaluated by another lead agency under CEQA, SCAQMD has the right to determine that the CEQA document is inadequate for its purposes as a responsible agency, but it may not do so because its permit program already requires all permitted sources to use the best available air pollution control technology. (SCAQMD, *Rule 1303(a)(1) – Requirements*, http://www.aqmd.gov/home/regulations/rules/scaqmd-rule-book/regulation-xiii; then follow "Rule 1303" hyperlink (last visited Apr. 1, 2015).)

Finally, SCAQMD receives as many as 60 or more CEQA documents each month (around 500 per year) in its role as commenting agency or an agency with "jurisdiction by law" over air quality—a natural resource affected by the project. (Pub. Resources Code §§ 21104(a), 21153; CEQA Guidelines § 15366(a)(3).) The SCAQMD staff provides comments on as many as 25 or 30 such documents each month.

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[4] The SCAQMD's permit projects are not included in its Certified Regulatory Program, and are evaluated under the traditional local government CEQA analysis. (Pub. Resources Code §§ 21150-21154.)

(SCAQMD Governing Board Agenda, Apr. 3, 2015, Agenda Item 16, Attachment A, http://www.aqmd.gov/home/library/meeting-agendas-minutes/agenda?title=governing-board-meeting-agenda-april-3-2015; then follow "16. Lead Agency Projects and Environmental Documents Received by SCAQMD" hyperlink (last visited Apr. 1, 2015).) Of course, SCAQMD focuses its commenting efforts on the more significant projects.

Typically, SCAQMD comments on the adequacy of air quality analysis, appropriateness of assumptions and methodology, and completeness of the recommended air quality mitigation measures. Staff may comment on the need to prepare a health risk assessment detailing the projected cancer and noncancer risks from toxic air contaminants resulting from the project, particularly the impacts of diesel particulate matter, which CARB has identified as a toxic air contaminant based on its carcinogenic effects. (California Air Resources Board, Resolution 98-35, Aug. 27, 1998, http://www.arb.ca.gov/regact/diesltac/diesltac.htm; then follow Resolution 98-35 hyperlink (last visited Apr. 1, 2015).) Because SCAQMD already requires new or modified stationary sources of toxic air contaminants to use the best available control technology for toxics and to keep their risks below specified levels, (SCAQMD Rule 1401, supra, note 15), the greatest opportunity to further mitigate toxic impacts through the CEQA process is by reducing emissions—particularly diesel emissions—from vehicles.

II. THIS COURT SHOULD NOT SET A HARD-AND-FAST RULE CONCERNING THE EXTENT TO WHICH AN EIR MUST CORRELATE A PROJECT'S EMISSION OF POLLUTANTS WITH RESULTING HEALTH IMPACTS.

Numerous cases hold that courts do not review the correctness of an EIR's conclusions but rather its sufficiency as an informative document. (*Laurel Heights 1, supra*, 47 Cal.3d at p. 392; *Citizens of Goleta Valley v.*

Bd. of Supervisors (1990) 52 Cal.3d 553, 569; *Bakersfield Citizens for Local Control v. City of Bakersfield* (2004) 124 Cal.App.4th 1184, 1197.)

As stated by the Court of Appeal in this case, where an EIR has addressed a topic, but the petitioner claims that the information provided about that topic is insufficient, courts must "draw[] a line that divides *sufficient* discussions from those that are *insufficient*." (*Sierra Club v. County of Fresno* (2014) 226 Cal.App.4th 704 (superseded by grant of review) 172 Cal.Rptr.3d 271, 290.) The Court of Appeal readily admitted that "[t]he terms themselves – sufficient and insufficient – provide little, if any, guidance as to where the line should be drawn. They are simply labels applied once the court has completed its analysis." (*Id.*)

The CEQA Guidelines, however, provide guidance regarding what constitutes a sufficient discussion of impacts. Section 15151 states that "the sufficiency of an EIR is to be reviewed in light of what is reasonably feasible." Case law reflects this: "Analysis of environmental effects need not be exhaustive, but will be judged in light of what was reasonably feasible." (*Association of Irritated Residents v. County of Madera, supra,* 107 Cal.App.4th at p. 1390; see also CEQA Guidelines § 15204(a).)

Applying this test, this Court cannot realistically establish a hard-and-fast rule that an analysis correlating air pollution impacts of a project to quantified resulting health impacts is always required, or indeed that it is never required. Simply put, in some cases such an analysis will be "feasible"; in some cases it will not.

For example, air pollution control districts often require a proposed new source of toxic air contaminants to prepare a "health risk assessment" before issuing a permit to construct. District rules often limit the allowable cancer risk the new source may cause to the "maximally exposed individual" (worker and residence exposures). (*See, e.g.*, SCAQMD Rule 1401(c)(8); 1401(d)(1), *supra* note 15.) In order to perform this analysis, it

is necessary to have data regarding the sources and types of air toxic contaminants, location of emission points, velocity of emissions, the meteorology and topography of the area, and the location of receptors (worker and residence). (SCAQMD, *Supplemental Guidelines for Preparing Risk Assessments for the Air Toxics "Hot Spots" Information and Assessment Act (AB2588), pp. 11-16*; (last visited Apr. 1, 2015) http://www.aqmd.gov/home/library/documents-support-material; "Guidelines" hyperlink; AB2588; then follow AB2588 Risk Assessment Guidelines hyperlink.)

Thus, it is feasible to determine the health risk posed by a new gas station locating at an intersection in a mixed use area, where receptor locations are known. On the other hand, it may not be feasible to perform a health risk assessment for airborne toxics that will be emitted by a generic industrial building that was built on "speculation" (i.e., without knowing the future tenant(s)). Even where a health risk assessment can be prepared, however, the resulting maximum health risk value is only a calculation of risk—it does not necessarily mean anyone will contract cancer as a result of the project.

In order to find the "cancer burden" or expected additional cases of cancer resulting from the project, it is also necessary to know the numbers and location of individuals living within the "zone of impact" of the project: i.e., those living in areas where the projected cancer risk from the project exceeds one in a million. (SCAQMD, Health Risk Assessment Summary form, http://www.aqmd.gov/home/forms ; filter by "AB2588" category; then "Health Risk Assessment" hyperlink (last visited Apr. 1, 2015).) The affected population is divided into bands of those exposed to at least 1 in a million risk, those exposed to at least 10 in a million risk, etc. up to those exposed at the highest levels. (*Id.*) This data allows agencies to calculate an approximate number of additional cancer cases expected from

the project. However, it is not possible to predict which particular individuals will be affected.

For the so-called criteria pollutants[5], such as ozone, it may be more difficult to quantify health impacts. Ozone is formed in the atmosphere from the chemical reaction of the nitrogen oxides (NO_x) and volatile organic compounds (VOC) in the presence of sunlight. (U.S. EPA, Ground Level Ozone, http://www.epa.gov/airquality/ozonepollution/ (last updated Mar. 25, 2015).) It takes time and the influence of meteorological conditions for these reactions to occur, so ozone may be formed at a distance downwind from the sources. (U.S. EPA, *Guideline on Ozone Monitoring Site Selection* (Aug. 1998) EPA-454/R-98-002 § 5.1.2, http://www.epa.gov/ttnamti1/archive/cpreldoc.html (last visited Apr. 1, 2015).) NO_x and VOC are known as "precursors" of ozone.

Scientifically, health effects from ozone are correlated with increases in the ambient level of ozone in the air a person breathes. (U.S. EPA, *Health Effects of Ozone in the General Population,* Figure 9, http://www.epa.gov/apti/ozonehealth/population.html#levels (last visited Apr. 1, 2015).) However, it takes a large amount of additional precursor emissions to cause a modeled increase in ambient ozone levels over an entire region. For example, the SCAQMD's 2012 AQMP showed that reducing NO_x by 432 tons per day (157,680 tons/year) and reducing VOC by 187 tons per day (68,255 tons/year) would reduce ozone levels at the SCAQMD's monitor site with the highest levels by only 9 parts per billion. (South Coast Air Quality Management District, *Final 2012 AQMP (February 2013)*, http://www.aqmd.gov/home/library/clean-air-plans/air-quality-mgt-plan/final-2012-air-quality-management-plan; then follow "Appendix V: Modeling & Attainment Demonstrations" hyperlink,

[5] See discussion of types of pollutants, supra, Part I.A.

pp. v-4-2, v-7-4, v-7-24.) SCAQMD staff does not currently know of a way to accurately quantify ozone-related health impacts caused by NO_x or VOC emissions from relatively small projects.

On the other hand, this type of analysis may be feasible for projects on a regional scale with very high emissions of NO_x and VOCs, where impacts are regional. For example, in 2011 the SCAQMD performed a health impact analysis in its CEQA document for proposed Rule 1315, which authorized various newly-permitted sources to use offsets from the districts "internal bank" of emission reductions. This CEQA analysis accounted for essentially *all* the increases in emissions due to new or modified sources in the District between 2010 and 2030.[6] The SCAQMD was able to correlate this very large emissions increase (e.g., 6,620 pounds per day NO_x (1,208 tons per year), 89,180 pounds per day VOC (16,275 tons per year)) to expected health outcomes from ozone and particulate matter (e.g., 20 premature deaths per year and 89,947 school absences in the year 2030 due to ozone).[7] (SCAQMD Governing Board Agenda, February 4, 2011, Agenda Item 26, *Assessment for: Re-adoption of Proposed Rule 1315 – Federal New Source Review Tracking System* (see hyperlink in fn 6*)* at p. 4.1-35, Table 4.1-29.)

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[6] (SCAQMD Governing Board Agenda, February 4, 2011, Agenda Item 26, Attachment G, *Assessment for: Re-adoption of Proposed Rule 1315 – Federal New Source Review Tracking System, Vol. 1, p.4.0-6,* http://www.aqmd.gov/home/library/meeting-agendas-minutes/agenda?title=governing-board-meeting-agenda-february-4-2011; the follow "26. Adopt Proposed Rule 1315 – Federal New Source Review Tracking System" (last visited April 1, 2015).)

[7] The SCAQMD was able to establish the location of future NO_x and VOC emissions by assuming that new projects would be built in the same locations and proportions as existing stationary sources. This CEQA document was upheld by the Los Angeles County Superior Court in *Natural Res. Def. Council v SCAQMD*, Los Angeles Superior Court No. BS110792).

However, a project emitting only 10 tons per year of NO_x or VOC is small enough that its regional impact on ambient ozone levels may not be detected in the regional air quality models that are currently used to determine ozone levels. Thus, in this case it would not be feasible to directly correlate project emissions of VOC or NO_x with specific health impacts from ozone. This is in part because ozone formation is not linearly related to emissions. Ozone impacts vary depending on the location of the emissions, the location of other precursor emissions, meteorology and seasonal impacts, and because ozone is formed some time later and downwind from the actual emission. (EPA Guideline on Ozone Monitoring Site Selection (Aug. 1998) EPA-454/R-98-002, § 5.1.2; https://www.epa.gov/ttnamti1/archive/cpreldoc.html; then search "Guideline on Ozone Monitoring Site Selection" click on pdf) (last viewed Apr. 1, 2015).)

SCAQMD has set its CEQA "significance" threshold for NO_x and VOC at 10 tons per year (expressed as 55 lb/day). (SCAQMD, *Air Quality Analysis Handbook*, http://www.aqmd.gov/home/regulations/ceqa/air-quality-analysis-handbook; then follow "SCAQMD Air Quality Significance Thresholds" hyperlink (last visited Apr. 1, 2015).) This is because the federal Clean Air Act defines a "major" stationary source for "extreme" ozone nonattainment areas such as SCAQMD as one emitting 10 tons/year. (42 U.S.C. §§ 7511a(e), 7511a(f); CAA §§ 182(e), 182(f).) Under the Clean Air Act, such sources are subject to enhanced control requirements (42 U.S.C. §§ 7502(c)(5), 7503; CAA §§ 172(c)(5), 173), so SCAQMD decided this was an appropriate threshold for making a CEQA "significance" finding and requiring feasible mitigation. Essentially, SCAQMD takes the position that a source that emits 10 tons/year of NO_x or VOC would contribute cumulatively to ozone formation. Therefore, lead agencies that use SCAQMD's thresholds of significance may determine

that many projects have "significant" air quality impacts and must apply all feasible mitigation measures, yet will not be able to precisely correlate the project to quantifiable health impacts, unless the emissions are sufficiently high to use a regional modeling program.

In the case of particulate matter ($PM_{2.5}$)[8], another "criteria" pollutant, SCAQMD staff is aware of two possible methods of analysis. SCAQMD used regional modeling to predict expected health impacts from its proposed Rule 1315, as mentioned above. Also, the California Air Resources Board (CARB) has developed a methodology that can predict expected mortality (premature deaths) from large amounts of $PM_{2.5}$. (California Air Resources Board, *Health Impacts Analysis: PM Premature Death Relationship*, http://www.arb.ca.gov/research/health/pm-mort/pm-mort_arch.htm (last reviewed Jan. 19, 2012).) SCAQMD used the CARB methodology to predict impacts from three very large power plants (e.g., 731-1837 lbs/day). (Final Environmental Assessment for Rule 1315, *supra*, pp 4.0-12, 4.1-13, 4.1-37 (e.g., 125 premature deaths in the entire SCAQMD in 2030), 4.1-39 (0.05 to 1.77 annual premature deaths from power plants.) Again, this project involved large amounts of additional $PM_{2.5}$ in the District, up to 2.82 tons/day (5,650 lbs/day of $PM_{2.5}$, or, or 1029 tons/year. (*Id.* at table 4.1-4, p. 4.1-10.)

However, the primary author of the CARB methodology has reported that this $PM_{2.5}$ health impact methodology is not suited for small projects and may yield unreliable results due to various uncertainties. [9] (SCAQMD, *Final Subsequent Mitigated Negative Declaration for: Warren*

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[8] SCAQMD has not attained the latest annual or 24-hour national ambient air quality standards for "$PM_{2.5}$" or particulate matter less than 2.5 microns in diameter.

[9] Among these uncertainties are the representativeness of the population used in the methodology, and the specific source of PM and the corresponding health impacts. (*Id.* at p. 2-24.)

E&P, Inc. WTU Central Facility, New Equipment Project (certified July 19, 2011), http://www.aqmd.gov/home/library/documents-support-material/lead-agency-permit-projects/permit-project-documents---year-2011; then follow "Final Subsequent Mitigated Negative Declaration for Warren E&P Inc. WTU Central Facility, New Equipment Project" hyperlink, pp. 2-22, 2-23 (last visited Apr. 1, 2015).) Therefore, when SCAQMD prepared a CEQA document for the expansion of an existing oil production facility, with very small $PM_{2.5}$ increases (3.8 lb/day) and a very small affected population, staff elected not to use the CARB methodology for using estimated $PM_{2.5}$ emissions to derive a projected premature mortality number and explained why it would be inappropriate to do so. (*Id.* at pp 2-22 to 2-24.) SCAQMD staff concluded that use of this methodology for such a small source could result in unreliable findings and would not provide meaningful information. (*Id.* at pp. 2-23, 2-25.) This CEQA document was not challenged in court.

In the above case, while it may have been technically possible to plug the data into the methodology, the results would not have been reliable or meaningful. SCAQMD believes that an agency should not be required to perform analyses that do not produce reliable or meaningful results. This Court has already held that an agency may decline to use even the "normal" "existing conditions" CEQA baseline where to do so would be misleading or without informational value. (*Neighbors for Smart Rail v. Exposition Metro Line* (2013) 57 Cal.4th 439, 448, 457.) The same should be true for a decision that a particular study or analysis would not provide reliable or meaningful results.[10]

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[10] Whether a particular study would result in "informational value" is a part of deciding whether it is "feasible." CEQA defines "feasible" as "capable of being accomplished in a successful manner within a reasonable period of time, taking into account economic, environmental, social, and

Therefore, it is not possible to set a hard-and-fast rule on whether a correlation of air quality impacts with specific quantifiable health impacts is required in all cases. Instead, the result turns on whether such an analysis is reasonably feasible in the particular case.[11] Moreover, what is reasonably feasible may change over time as scientists and regulatory agencies continually seek to improve their ability to predict health impacts. For example, CARB staff has been directed by its Governing Board to reassess and improve the methodology for estimating premature deaths. (California Air Resources Board, *Health Impacts Analysis: PM Mortality Relationship*, http://www.arb.ca.gov/research/health/pm-mort/pm-mort.htm (last reviewed Dec. 29, 2010).) This factor also counsels against setting any hard-and-fast rule in this case.

III. THE QUESTION OF WHETHER AN EIR CONTAINS SUFFICIENT ANALYSIS TO MEET CEQA'S REQUIREMENTS IS A MIXED QUESTION OF FACT AND LAW GOVERNED BY TWO DIFFERENT STANDARDS OF REVIEW.

A. Standard of Review for Feasibility Determination and Sufficiency as an Informative Document

A second issue in this case is whether courts should review an EIR's informational sufficiency under the "substantial evidence" test as argued by Friant Ranch or the "independent judgment" test as argued by Sierra Club.

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technological factors." (Pub. Resources Code § 21061.1.) A study cannot be "accomplished in a *successful* manner" if it produces unreliable or misleading results.

[11] In this case, the lead agency did not have an opportunity to determine whether the requested analysis was feasible because the comment was non-specific. Therefore, SCAQMD suggests that this Court, after resolving the legal issues in the case, direct the Court of Appeal to remand the case to the lead agency for a determination of whether the requested analysis is feasible. Because Fresno County, the lead agency, did not seek review in this Court, it seems likely that the County has concluded that at least some level of correlation of air pollution with health impacts is feasible.

As this Court has explained, "a reviewing court must adjust its scrutiny to the nature of the alleged defect, depending on whether the claim is predominantly one of improper procedure or a dispute over the facts." (*Vineyard Area Citizens v. City of Rancho Cordova, supra,* 40 Cal.4th at 435.) For questions regarding compliance with proper procedure or other legal questions, courts review an agency's action de novo under the "independent judgment" test. (*Id.*) On the other hand, courts review factual disputes only for substantial evidence, thereby "accord[ing] greater deference to the agency's substantive factual conclusions." (*Id.*)

Here, Friant Ranch and Sierra Club agree that the case involves the question of whether an EIR includes sufficient information regarding a project's impacts. However, they disagree on the proper standard of review for answering this question: Sierra Club contends that courts use the independent judgment standard to determine whether an EIR's analysis is sufficient to meet CEQA's informational purposes,[12] while Friant Ranch contends that the substantial evidence standard applies to this question.

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[12] Sierra Club acknowledges that courts use the substantial evidence standard when reviewing predicate factual issues, but argues that courts ultimately decide as a matter of law what CEQA requires. (Answering Brief, pp. 14, 23.)

SCAQMD submits that the issue is more nuanced than either party contends. We submit that, whether a CEQA document includes sufficient analysis to satisfy CEQA's informational mandates is a mixed question of fact and law,[13] containing two levels of inquiry that should be judged by different standards.[14]

The state CEQA Guidelines set forth standards for the adequacy of environmental analysis. Guidelines Section 15151 states:

> An EIR should be prepared with a sufficient degree of analysis to provide decision makers with information which enables them to make a decision which intelligently takes account of environmental consequences. An evaluation of the environmental effects of a proposed project need not be exhaustive, but the sufficiency of an EIR is to be reviewed in light of what is reasonably feasible. Disagreement among experts does not make an EIR inadequate, but the EIR should summarize the main points of disagreement among the experts. The courts have looked not for perfection, but for adequacy, completeness, and a good-faith effort at full disclosure.

In this case, the basic question is whether the underlying analysis of air quality impacts made the EIR "sufficient" as an informative document. However, whether the EIR's analysis was sufficient is judged in light of what was reasonably feasible. This represents a mixed question of fact and law that is governed by two different standards of review.

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[13] Friant Ranch actually states that the claim that an EIR lacks sufficient relevant information is, "most properly thought of as raising mixed questions of fact and law." (Opening Brief, p. 27.) However, the remainder of its argument claims that the court should apply the substantial evidence standard of review to all aspects of the issue.

[14] Mixed questions of fact and law issues may implicate predominantly factual subordinate questions that are reviewed under the substantial evidence test even though the ultimate question may be reviewed by the independent judgment test. *Crocker National Bank v. City and County of San Francisco* (1989) 49 Cal.3d 881, 888-889.

SCAQMD submits that an EIR's sufficiency as an informational document is ultimately a legal question that courts should determine using their independent judgment. This Court's language in *Laurel Heights I* supports this position. As this Court explained: "The court does not pass upon the correctness of the EIR's environmental conclusions, but only upon its *sufficiency as an informative document.*" (*Laurel Heights I, supra,* 47 Cal.3d at 392-393) (emphasis added.) As described above, the Court in *Vineyard Area Citizens v. City of Rancho Cordova, supra,* 40 Cal.4th at 431, also used its independent judgment to determine what level of analysis CEQA requires for water supply impacts. The Court did not defer to the lead agency's opinion regarding the law's requirements; rather, it determined for itself what level of analysis was necessary to meet "[t]he law's informational demands." (*Id.* at p. 432.) Further, existing case law also holds that where an agency fails to comply with CEQA's information disclosure requirements, the agency has "failed to proceed in the manner required by law." (*Save Our Peninsula Comm. v. Monterey County Bd. of Supervisors* (2001) 87 Cal.App.4th 99, 118.)

However, whether an EIR satisfies CEQA's requirements depends in part on whether it was reasonably feasible for an agency to conduct additional or more thorough analysis. EIRs must contain "a detailed statement" of a project's impacts (Pub. Res. Code § 21061), and an agency must "use its best efforts to find out and disclose all that it reasonably can." (CEQA Guidelines § 15144.) Nevertheless, "the sufficiency of an EIR is to be reviewed in light of what is reasonably feasible." (CEQA Guidelines § 15151.)

SCAQMD submits that the question of whether additional analysis or a particular study suggested by a commenter is "feasible" is generally a question of fact. Courts have already held that whether a particular alternative is "feasible" is reviewed by the substantial evidence test.

(*Uphold Our Heritage v. Town of Woodside* (2007) 147 Cal.App.4th 587, 598-99; *Center for Biological Diversity v. County of San Bernardino* (2010) 185 Cal.App.4th 866, 883.) Thus, if a lead agency determines that a particular study or analysis is infeasible, that decision should generally be judged by the substantial evidence standard. However, SCAQMD urges this Court to hold that lead agencies must explain the basis of any determination that a particular analysis is infeasible in the EIR itself. An EIR must discuss information, including issues related to the feasibility of particular analyses "in sufficient detail to enable meaningful participation and criticism by the public. '[W]hatever is required to be considered in an EIR must be in that formal report; what any official might have known from other writings or oral presentations cannot supply what is lacking in the report.'" (*Laurel Heights I, supra*, 47 Cal.3d at p. 405 (quoting *Santiago County Water District v. County of Orange* (1981) 118 Cal.App.3d 818, 831) (discussing analysis of alternatives).) The evidence on which the determination is based should also be summarized in the EIR itself, with appropriate citations to reference materials if necessary. Otherwise commenting agencies such as SCAQMD would be forced to guess where the lead agency's evidence might be located, thus thwarting effective public participation.

Moreover, if a lead agency determines that a particular study or analysis would not result in reliable or useful information and for that reason is not feasible, that determination should be judged by the substantial evidence test. (See *Neighbors for Smart Rail v. Exposition Metro Line Construction Authority*, *supra*, 57 Cal.4th 439, 448, 457:

whether "existing conditions" baseline would be misleading or uninformative judged by substantial evidence standard.[15])

If the lead agency's determination that a particular analysis or study is not feasible is supported by substantial evidence, then the agency has not violated CEQA's information disclosure provisions, since it would be infeasible to provide additional information. This Court's decisions provide precedent for such a result. For example, this Court determined that the issue of whether the EIR should have included a more detailed discussion of future herbicide use was resolved because substantial evidence supported the agency's finding that "the precise parameters of future herbicide use could not be predicted." *Ebbetts Pass Forest Watch v. California Dept. of Forestry & Fire Protection* (2008) 43 Cal.4th 936, 955.

Of course, SCAQMD expects that courts will continue to hold lead agencies to their obligations to consult with, and not to ignore or misrepresent, the views of sister agencies having special expertise in the area of air quality. (*Berkeley Keep Jets Over the Bay v. Board of Port Commissioners* (2007) 91 Cal.App.4th 1344, 1364 n.11.) In some cases, information provided by such expert agencies may establish that the purported evidence relied on by the lead agency is not in fact "substantial". (*Id.* at pp. 1369-1371.)

In sum, courts retain ultimate responsibility to determine what CEQA requires. However, the law does not require exhaustive analysis, but only what is reasonably feasible. Agencies deserve deference for their factual determinations regarding what type of analysis is reasonably feasible. On the other hand, if a commenter requests more information, and the lead agency declines to provide it but does *not* determine that the

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[15] The substantial evidence standard recognizes that the courts "have neither the resources nor the scientific expertise" to weigh conflicting evidence on technical issues. (*Laurel Heights I, supra,* 47 Cal.3d 376, 393.)

requested study or analysis would be infeasible, misleading or uninformative, the question becomes whether the omission of that analysis renders the EIR inadequate to satisfy CEQA's informational purposes. (*Id.* at pp. 1370-71.) Again, this is predominantly a question of law and should be judged by the de novo or independent judgment standard of review. Of course, this Court has recognized that a "project opponent or reviewing court can always imagine some additional study or analysis that might provide helpful information. It is not for them to design the EIR. That further study...might be helpful does not make it necessary." (*Laurel Heights I, supra,* 47 Cal.3d 376, 415 – see also CEQA Guidelines § 15204(a) [CEQA "does not require a lead agency to conduct every test. . . recommended or demanded by commenters."].) Courts, then, must adjudicate whether an omission of particular information renders an EIR inadequate to serve CEQA's informational purposes.[16]

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[16] We recognize that there is case law stating that the substantial evidence standard applies to "challenges to the scope of an EIR's analysis of a topic" as well as the methodology used and the accuracy of the data relied on in the document "because these types of challenges involve factual questions." (*Bakersfield Citizens for Local Control v. City of Bakersfield, supra,* 124 Cal.App.4th 1184, 1198, and cases relied on therein.) However, we interpret this language to refer to situations where the question of the scope of the analysis really is factual—that is, where it involves whether further analysis is feasible, as discussed above. This interpretation is supported by the fact that the *Bakersfield* court expressly rejected an argument that a claimed "omission of information from the EIR should be treated as inquiries whether there is substantial evidence supporting the decision approving the project. " *Bakersfield, supra,* 124 Cal.App.4th at p. 1208. And the *Bakersfield* court ultimately decided that the lead agency must analyze the connection between the identified air pollution impacts and resulting health impacts, even though the EIR already included some discussion of air-pollution-related respiratory illnesses. *Bakersfield, supra,* 124 Cal.App.4th at p. 1220. Therefore, the court must not have interpreted this question as one of the "scope of the analysis" to be judged by the substantial evidence standard.

B. Friant Ranch's Rationale for Rejecting the Independent Judgment Standard of Review is Unsupported by Case Law.

In its brief, Friant Ranch makes a distinction between cases where a required CEQA topic is not discussed at all (to be reviewed by independent judgment as a failure to proceed in the manner required by law) and cases where a topic is discussed, but the commenter claims the information provided is insufficient (to be judged by the substantial evidence test). (Opening Brief, pp. 13-17.) The Court of Appeal recognized these two types of cases, but concluded that both raised questions of law. (*Sierra Club v. County of Fresno* (2014) 226 Cal.App.4th 704 (superseded by grant of review) 172 Cal.Rptr.3d 271, 290.) We believe the distinction drawn by Friant Ranch is unduly narrow, and inconsistent with cases which have concluded that CEQA documents are insufficient. In many instances, CEQA's requirements are stated broadly, and the courts must interpret the law to determine what level of analysis satisfies CEQA's mandate for providing meaningful information, even though the EIR discusses the issue to some extent.

For example, the CEQA Guidelines require discussion of the existing environmental baseline. In *County of Amador v. El Dorado County Water Agency* (1999) 76 Cal.App.4th 931, 954-955, the lead agency had discussed the environmental baseline by describing historic month-end water levels in the affected lakes. However, the court held that this was not an adequate baseline discussion because it failed to discuss the timing and amounts of past actual water releases, to allow comparison with the proposed project. The court evidently applied the independent judgment test to its decision, even though the agency discussed the issue to some extent.

Likewise, in *Vineyard Area Citizens* (2007) 40 Cal.4th 412, this Court addressed the question of whether an EIR's analysis of water supply impacts complied with CEQA. The parties agreed that the EIR was required to analyze the effects of providing water to the development project, "and that in order to do so the EIR had, in some manner, to identify the planned sources of that water." (*Vineyard Area Citizens, supra,* at p. 428.) However, the parties disagreed as to the level of detail required for this analysis and "what level of uncertainty regarding the availability of water supplies can be tolerated in an EIR . . . ." (*Id.*) In other words, the EIR had analyzed water supply impacts for the project, but the petitioner claimed that the analysis was insufficient.

This Court noted that neither CEQA's statutory language or the CEQA Guidelines specifically addressed the question of how precisely an EIR must discuss water supply impacts. (*Id.*) However, it explained that CEQA "states that '[w]hile foreseeing the unforeseeable is not possible, an agency must use its best efforts to find out and disclose all that it reasonably can.'" (*Id.*, [Guidelines § 15144].) The Court used this general principle, along with prior precedent, to elucidate four "principles for analytical adequacy" that are necessary in order to satisfy "CEQA's informational purposes." (*Vineyard Area Citizens, supra,* at p. 430.) The Court did not defer to the agency's determination that the EIR's analysis of water supply impacts was sufficient. Rather, this Court used its independent judgment to determine for itself the level of analysis required to satisfy CEQA's fundamental purposes. (*Vineyard Area Citizens, supra*, at p. 441: an EIR does not serve its purposes where it neglects to explain likely sources of water and "... leaves long term water supply considerations to later stages of the project.")

Similarly, the CEQA Guidelines require an analysis of noise impacts of the project. (Appendix G, "Environmental Checklist Form."[17]) In *Gray v. County of Madera* (2008) 167 Cal.App.4th 1099, 1123, the court held that the lead agency's noise impact analysis was inadequate even though it had addressed the issue and concluded that the increase would not be noticeable. If the court had been using the substantial evidence standard, it likely would have upheld this discussion.

Therefore, we do not agree that the issue can be resolved on the basis suggested by Friant Ranch, which would apply the substantial evidence standard to *every* challenge to an analysis that addresses a required CEQA topic. This interpretation would subvert the courts' proper role in interpreting CEQA and determining what the law requires.

Nor do we agree that the Court of Appeal in this case violated CEQA's prohibition on courts interpreting its provisions "in a manner which imposes procedural or substantive requirements beyond those explicitly stated in this division or in the state guidelines." (Pub. Resources Code § 21083.1.) CEQA requires an EIR to describe *all* significant impacts of the project on the environment. (Pub. Resources Code § 21100(b)(2); *Vineyard Area Citizens, supra,* at p. 428.) Human beings are part of the environment, so CEQA requires EIRs to discuss a project's significant impacts on human health. However, except in certain particular circumstances,[18] neither the CEQA statute nor Guidelines specify the precise level of analysis that agencies must undertake to satisfy the law's requirements. (see, e.g., CEQA Guidelines § 15126.2(a) [EIRs must describe "health and safety problems caused by {a project's} physical changes"].) Accordingly, courts must interpret CEQA as a whole to

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[17] Association of Environmental Professionals, 2015 CEQA Statute and Guidelines (2015) p.287.

[18] E.g., Pub. Resources Code § 21151.8(C)(3)(B)(iii) (requiring specific type of health risk analysis for siting schools).

determine whether a particular EIR is sufficient as an informational document. A court determining whether an EIR's discussion of human health impacts is legally sufficient does not constitute imposing a new substantive requirement.[19] Under Friant Ranch's theory, the above-referenced cases holding a CEQA analysis inadequate would have violated the law. This is not a reasonable interpretation.

IV. COURTS MUST SCRUPULOUSLY ENFORCE THE REQUIREMENTS THAT LEAD AGENCIES CONSULT WITH AND OBTAIN COMMENTS FROM AIR DISTRICTS

Courts must "scrupulously enforce" CEQA's legislatively mandated requirements. (*Vineyard Area Citizens, supra*, 40 Cal.4th 412, 435.) Case law has firmly established that lead agencies must consult with the relevant air pollution control district before conducting an initial study, and must provide the districts with notice of the intention to adopt a negative declaration (or EIR). (*Schenck v. County of Sonoma* (2011) 198 Cal.App.4th 949, 958.) As *Schenck* held, neither publishing the notice nor providing it to the State Clearinghouse was a sufficient substitute for sending notice directly to the air district. (*Id.*) Rather, courts "must be satisfied that [administrative] agencies have fully complied with the procedural requirements of CEQA, since only in this way can the important public purposes of CEQA be protected from subversion." *Schenck,* 198 Cal.App.4th at p. 959 (citations omitted).[20]

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[19] We submit that Public Resources Code Section 21083.1 was intended to prevent courts from, for example, holding that an agency must analyze economic impacts of a project where there are no resulting environmental impacts (see CEQA Guidelines § 15131) , or imposing new procedural requirements, such as imposing additional public notice requirements not set forth in CEQA or the Guidelines.

[20] Lead agencies must consult air districts, as public agencies with jurisdiction by law over resources affected by the project, *before* releasing an EIR. (Pub. Resources Code §§ 21104(a); 21153.) Moreover, air

Lead agencies should be aware, therefore, that failure to properly seek and consider input from the relevant air district constitutes legal error which may jeopardize their project approvals. For example, the court in *Fall River Wild Trout Foundation v. County of Shasta,* (1999) 70 Cal.App.4th 482, 492 held that the failure to give notice to a trustee agency (Department of Fish and Game) was prejudicial error requiring reversal. The court explained that the lack of notice prevented the Department from providing any response to the CEQA document. (*Id.* at p. 492.) It therefore prevented relevant information from being presented to the lead agency, which was prejudicial error because it precluded informed decision-making. (*Id.*)[21]

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districts should be considered "state agencies" for purposes of the requirement to consult with "trustee agencies" as set forth in Public Resources Code § 20180.3(a). This Court has long ago held that the districts are not mere "local agencies" whose regulations are superseded by those of a state agency regarding matters of statewide concern, but rather have concurrent jurisdiction over such issues. (*Orange County Air Pollution Control District v. Public Util. Com.* (1971) 4 Cal.3d 945, 951, 954.) Since air pollution is a matter of statewide concern, *Id* at 952, air districts should be entitled to trustee agency status in order to ensure that this vital concern is adequately protected during the CEQA process.

[21] In *Schenck,* the court concluded that failure to give notice to the air district was not prejudicial, but this was partly because the trial court had already corrected the error before the case arrived at the Court of Appeal. The trial court issued a writ of mandate requiring the lead agency to give notice to the air district. The air district responded by concurring with the lead agency that air impacts were not significant. (*Schenck,* 198 Cal.App.4th 949, 960.) We disagree with the *Schenck* court that the failure to give notice to the air district would not have been prejudicial (even in the absence of the trial court writ) merely because the lead agency purported to follow the air district's published CEQA guidelines for significance. (*Id.*, 198 Cal.App.4th at p. 960.) In the first place, absent notice to the air district, it is uncertain whether the lead agency properly followed those guidelines. Moreover, it is not realistic to expect that an air district's published guidelines would necessarily fully address all possible air-quality related issues that can arise with a CEQA project, or that those

Similarly, lead agencies must obtain additional information requested by expert agencies, including those with jurisdiction by law, if that information is necessary to determine a project's impacts. (*Sierra Club v. State Bd. Of Forestry* (1994) 7 Cal.4th 1215, 1236-37.) Approving a project without obtaining that information constitutes a failure to proceed in the manner prescribed by CEQA. (*Id.* at p. 1236.)

Moreover, a lead agency can save significant time and money by consulting with the air district early in the process. For example, the lead agency can learn what the air district recommends as an appropriate analysis on the facts of its case, including what kinds of health impacts analysis may be available, and what models are appropriate for use. This saves the lead agency from the need to do its analysis all over again and possibly needing to recirculate the document after errors are corrected, if new significant impacts are identified. (CEQA Guidelines § 15088.5(a).) At the same time, the air district's expert input can help the lead agency properly determine whether another commenter's request for additional analysis or studies is reasonable or feasible. Finally, the air district can provide input on what mitigation measures would be feasible and effective.

Therefore, we suggest that this Court provide guidance to lead agencies reminding them of the importance of consulting with the relevant air districts regarding these issues. Otherwise, their feasibility decisions may be vulnerable to air district evidence that establishes that there is no substantial evidence to support the lead agency decision not to provide specific analysis. (*See Berkeley Keep Jets Over the Bay, supra,* 91 Cal.App.4th 1344, 1369-1371.)

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guidelines would necessarily be continually modified to reflect new developments. Therefore we believe that, had the trial court not already ordered the lead agency to obtain the air district's views, the failure to give notice would have been prejudicial, as in *Fall River, supra,* 70 Cal.App.4th 482, 492.

CONCLUSION

The SCAQMD respectfully requests this Court *not* to establish a hard-and-fast rule concerning whether CEQA requires a lead agency to correlate identified air quality impacts of a project with resulting health outcomes. Moreover, the question of whether an EIR is "sufficient as an informational document" is a mixed question of fact and law containing two levels of inquiry. Whether a particular proposed analysis is feasible is predominantly a question of fact to be judged by the substantial evidence standard of review. Where the requested analysis is feasible, but the lead agency relies on legal or policy reasons not to provide it, the question of whether the EIR is nevertheless sufficient as an informational document is predominantly a question of law to be judged by the independent judgment standard of review.

Respectfully submitted,

DATED: April 3, 2015

SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT
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CERTIFICATE OF WORD COUNT

Pursuant to Rule 8.520(c)(1) of the California Rules of Court, I hereby certify that this brief contains 8,476 words, including footnotes, but excluding the Application, Table of Contents, Table of Authorities, Certificate of Service, this Certificate of Word Count, and signature blocks. I have relied on the word count of the Microsoft Word Vista program used to prepare this Certificate.

DATED: April 3, 2015 Respectfully submitted,

Barbara Baird

Barbara Baird

PROOF OF SERVICE

I am employed in the County of Los Angeles, California. I am over the age of 18 years and not a party to the within action. My business address is 21865 Copley Drive, Diamond Bar, California 91765.

On April 3, 2015 I served true copies of the following document(s) described as **APPLICATION OF THE SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT FOR LEAVE TO FILE BRIEF OF *AMICUS CURIAE* IN SUPPORT OF NEITHER PARTY AND *[PROPOSED]* BRIEF OF *AMICUS CURIAE*** by placing a true copy of the foregoing document(s) in a sealed envelope addressed as set forth on the attached service list as follows:

BY MAIL: I enclosed the document(s) in a sealed envelope or package addressed to the persons at the addresses listed in the Service List and placed the envelope for collection and mailing following our ordinary business practices. I am readily familiar with this District's practice for collection and processing of correspondence for mailing. Under that practice, the correspondence would be deposited with the United States Postal Service, with postage thereon fully prepaid at Diamond Bar, California, in the ordinary course of business. I am aware that on motion of the party served, service is presumed invalid if postal cancellation date or postage meter date is more than one day after date of deposit for mailing in affidavit.

I declare under penalty of perjury under the laws of the State of California that the foregoing is true and correct.

Executed on April 3, 2015 at Diamond Bar, California.

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Health Risk Assessment

Fontana Foothill Commerce Center

GREENHOUSE GAS ANALYSIS

CITY OF FONTANA

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LIST OF ABBREVIATED TERMS

%	Percent
°C	Degrees Celsius
°F	Degrees Fahrenheit
(1)	Reference
AB	Assembly Bill
AB 32	Global Warming Solutions Act of 2006
AB 1493	Pavley Fuel Efficiency Standards
AB 1181	California Water Conservation Landscaping Act of 2006
Annex I	Industrialized Nations
APA	Administrative Procedure Act
AQIA	Air Quality Impact Analysis
BAU	Business As Usual
C_2F_6	Hexafluoroethane
C_2H_6	Ethane
$C_2H_2F_4$	Tetrafluroethane
$C_2H_4F_2$	Ethylidene Fluoride
CA Court	California Supreme Court
CAA	Federal Clean Air Act
CAAP	Climate Action and Adaptation Plan
CalEEMod	California Emissions Estimator Model
CalEPA	California Environmental Protection Agency
CALFIRE	California Department of Forestry and Fire Protection
CALGAPS	California LBNL GHG Analysis of Policies Spreadsheet
CALGreen	California Green Building Standards Code
CALSTA	California State Transportation Agency
CALTRANS	California Department of Transportation
CAPCOA	California Air Pollution Control Officers Association
CARB	California Air Resource Board
CBSC	California Building Standards Commission
CEC	California Energy Commission
CCR	California Code of Regulations
CEQA	California Environmental Quality Act
CDFA	California Department of Food and Agriculture
CF_4	Tetrafluoromethane
CFC	Chlorofluorocarbons
CH_4	Methane

CHF_3	Fluoroform
CH_2FCF	1,1,1,2-tetrafluoroethane
CH_3CF_2	1,1-difluoroethane
City	City of Fontana
CNRA	California Natural Resources Agency
CNRA 2009	2009 California Climate Adaptation Strategy
CO	Carbon Monoxide
CO_2	Carbon Dioxide
CO_2e	Carbon Dioxide Equivalent
Convention	United Nation's Framework Convention on Climate Change
COP	Conference of the Parties
CPUC	California Public Utilities Commission
CTC	California Transportation Commission
DOF	Department of Finance
EIR	Environmental Impact Report
EMFAC	Emission Factor Model
EPA	Environmental Protection Agency
ETW	Equivalent Test Weight
EV	Electric Vehicles
FED	Functional Equivalent Document
GCC	Global Climate Change
Gg	Gigagram
GHGA	Greenhouse Gas Analysis
GOBIZ	Governor's Office of Business and Economic Development
GPD	Gallons Per Day
GPY	Gallons Per Year
GWP	Global Warming Potential
GVWR	Gross Vehicle Weight Rating
H_2O	Water
HFC	Hydrofluorocarbons
HDT	Heavy-Duty Trucks
HHDT	Heavy-Heavy-Duty Trucks
hp	Horsepower
IBANK	California Infrastructure and Economic Development Bank
IPCC	Intergovernmental Panel on Climate Change
ISO	Independent System Operator
ITE	Institute of Transportation Engineers
kWh	Kilowatt Hour

lbs	Pounds
LBNL	Lawrence Berkeley National Laboratory
LCA	Life-Cycle Analysis
LCD	Liquid Crystal Display
LCFS	Low Carbon Fuel Standard
LDA	Light-Duty Auto
LDT1/LDT2	Light-Duty Trucks
LEV III	Low-Emission Vehicle
LHDT	Light-Heavy-Duty Trucks
MDV	Medium-Duty Vehicles
MHT	Medium-Duty Trucks
MHDT	Medium-Heavy-Duty Tucks
MMR	Mandatory Reporting Rule
$MMTCO_2e$	Million Metric Ton of Carbon Dioxide Equivalent
$MMTCO_2e/yr$	Million Metric Ton of Carbon Dioxide Equivalent Per Year
MPG	Miles Per Gallon
MPOs	Metropolitan Planning Organizations
MT/yr	Metric Tons Per Year
$MTCO_2e$	Metric Ton of Carbon Dioxide Equivalent
$MTCO_2e/yr$	Metric Ton of Carbon Dioxide Equivalent Per Year
MW	Megawatt
MWh	Megawatt Hour
MWELO	California Department of Water Resources' Model Water Efficient
MY	Model Year
N_20	Nitrous Oxide
NDC	Nationally Determined Contributions
NF_3	Nitrogen Trifluoride
NHTSA	National Highway Traffic Safety Administration
NIOSH	National Institute for Occupational Safety and Health
NO_X	Oxides of Nitrogen
Non-Annex I	Developing Nations
OAL	Office of Administrative Law
OPR	Office of Planning and Research
PFC	Perfluorocarbons
PM_{10}	Particulate Matter 10 microns in diameter or less
$PM_{2.5}$	Particulate Matter 2.5 microns in diameter or less
ppb	Parts Per Billion

ppm	Parts Per Million
ppt	Parts Per Trillion
Project	Fontana Foothill Commerce Center
R-PC	Residential Planned Community
RPS	Renewable Portfolio Standards
RTP/SCS	Regional Transportation Plan/ Sustainable Communities Strategy
SAR	Second Assessment Report
SB	Senate Bill
SB 32	California Global Warming Solutions Act of 2006
SB 375	Regional GHG Emissions Reduction Targets/Sustainable Communities Strategies
SB 1078	Renewable Portfolio Standards
SB 1368	Statewide Retail Provider Emissions Performance Standards
SBTAM	San Bernardino Transportation Analysis Model
SCAG	Southern California Association of Governments
SCAP	Sustainable City Action Plan
SCAQMD	South Coast Air Quality Management District
Scoping Plan	California Air Resources Board Climate Change Scoping Plan
sf	Square Feet
SF_6	Sulfur Hexaflouride
SGC	Strategic Growth Council
SLPS	Short-Lived Climate Pollutant Strategy
SP	Service Population
SWCRB	State Water Resources Control Board
TAZ	Traffic Analysis Zones
TIA	Traffic Impact Analysis
U.S. Court	United States Supreme Court
UNFCCC	United Nations' Framework Convention on Climate Change
UTR	Utility Tractors
VMT	Vehicle Miles Traveled
VOC	Volatile Organic Compounds
WMXU-1	Walkable Mixed-Use Corridor and Downtown
WCI	Western Climate Initiative
WRI	World Resources Institute
ZE/NZE	Zero and Near-Zero Emissions

ZEV	Zero-Emissions Vehicles

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EXECUTIVE SUMMARY

ES.1 SUMMARY OF FINDINGS

The results of this *Fontana Foothill Commerce Center Greenhouse Gas Analysis* is summarized below based on the significance criteria in Section 3 of this report consistent with Appendix G of the California Environmental Quality Act (CEQA) Guidelines (1). Table ES-1 shows the findings of significance for potential greenhouse gas (GHG) impacts under CEQA.

TABLE ES-1: SUMMARY OF CEQA SIGNIFICANCE FINDINGS

Analysis	Report Section	Significance Findings	
		Unmitigated	Mitigated
GHG Impact #1: Would the Project generate GHG emissions, either directly or indirectly, that may have a significant impact on the environment?	3.7	*Potentially Significant*	*Significant and Unavoidable*
GHG Impact #2: Would the Project conflict with an applicable plan, policy or regulation adopted for the purpose of reducing the emissions of GHGs?	3.7	*Potentially Significant*	*Significant and Unavoidable*

ES.2 REGULATORY REQUIREMENTS

The Project would be required to comply with regulations imposed by the State of California and the South Coast Air Quality Management District (SCAQMD) aimed at the reduction of air pollutant emissions. Those that are directly and indirectly applicable to the Project and that would assist in the reduction of GHG emissions include:

- Global Warming Solutions Act of 2006 (Assembly Bill (AB) 32) (2).
- Regional GHG Emissions Reduction Targets/Sustainable Communities Strategies (Senate Bill (SB) 375) (3).
- Pavley Fuel Efficiency Standards (AB 1493). Establishes fuel efficiency ratings for new vehicles (4).
- California Building Code (Title 24 California Code of Regulations (CCR)). Establishes energy efficiency requirements for new construction (5).
- Appliance Energy Efficiency Standards (Title 20 CCR). Establishes energy efficiency requirements for appliances (6).
- Low Carbon Fuel Standard (LCFS). Requires carbon content of fuel sold in California to be 18% less by 2030 (7).
- California Water Conservation in Landscaping Act of 2006 (AB 1881). Requires local agencies to adopt the Department of Water Resources updated Water Efficient Landscape Ordinance or equivalent by January 1, 2010 to ensure efficient landscapes in new development and reduced water waste in existing landscapes (8).

- Statewide Retail Provider Emissions Performance Standards (SB 1368). Requires energy generators to achieve performance standards for GHG emissions (9).
- Clean Energy And Pollution Reduction Act of 2015 (SB 350), requires the California Public Utilities Commission (CPUC) to focus energy procurement decisions on reducing GHG emissions by 40 percent by 2030, and also includes an effort to achieve at least 50 percent renewable energy procurement (10).
- California Global Warming Solutions Act of 2006 (SB 32). Requires the state to reduce statewide GHG emissions to 40% below 1990 levels by 2030, a reduction target that was first introduced in Executive Order B-30-15 (11).

Promulgated regulations that will affect the Project's emissions are accounted for in the Project's GHG calculations provided in this report. In particular, AB 1493, LCFS, and RPS will be in effect for the AB 32 target year of 2020, and therefore are accounted for in the Project's emission calculations.

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1 INTRODUCTION

This report presents the results of the greenhouse gas analysis (GHGA) prepared by Urban Crossroads, Inc., for the proposed Fontana Foothill Commerce Center (Project). The purpose of this GHGA is to evaluate Project-related construction and operational emissions and determine the level of GHG impacts as a result of constructing and operating the Project.

1.1 SITE LOCATION

The proposed Fontana Foothill Commerce Center site which is located east of Juniper Avenue and north of Jurupa Avenue in the City of Fontana, as shown on Exhibit 1-A. The Project site is currently occupied with residential homes. Existing residential uses are located east of the Project site at the northwest corner of Jurupa Avenue and Sierra Avenue are planned to be developed in the future as commercial retail land use. The vacant site to the west of Juniper Avenue is planned for development as part of the Goodman Industrial Park Fontana III. The Project site is designated for Residential Planned Community (R-PC) and Walkable Mixed-Use Corridor and Downtown (WMXU-1) uses.

1.2 PROJECT DESCRIPTION

Exhibit B illustrates the site plan for the Project. As indicated on Exhibit B, the proposed Project is to consist of 754,408 square feet (sf) of warehouse/distribution center use across two buildings:

- Building 1: 432,569 sf of high-cube transload and short-term warehouse use;
- Building 2: 321,839 sf of high-cube transload and short-term warehouse use.

To present the potential worst-case conditions, the Project is assumed to be operational 24 hours per day, seven days per week. It is expected that the Project business operations would primarily be conducted within the enclosed buildings, except for traffic movement, parking, as well as loading and unloading of trucks at designated loading bays.

Per the *Fontana Foothill Commerce Center Traffic Impact Analysis* (TIA) prepared by Urban Crossroads, Inc., the Project is expected to generate a total of approximately 1,058 two-way vehicular trips per day (529 inbound and 529 outbound) which includes 342 two-way truck trips per day (171 inbound and 171 outbound) (12).

EXHIBIT 1-A: LOCATION MAP

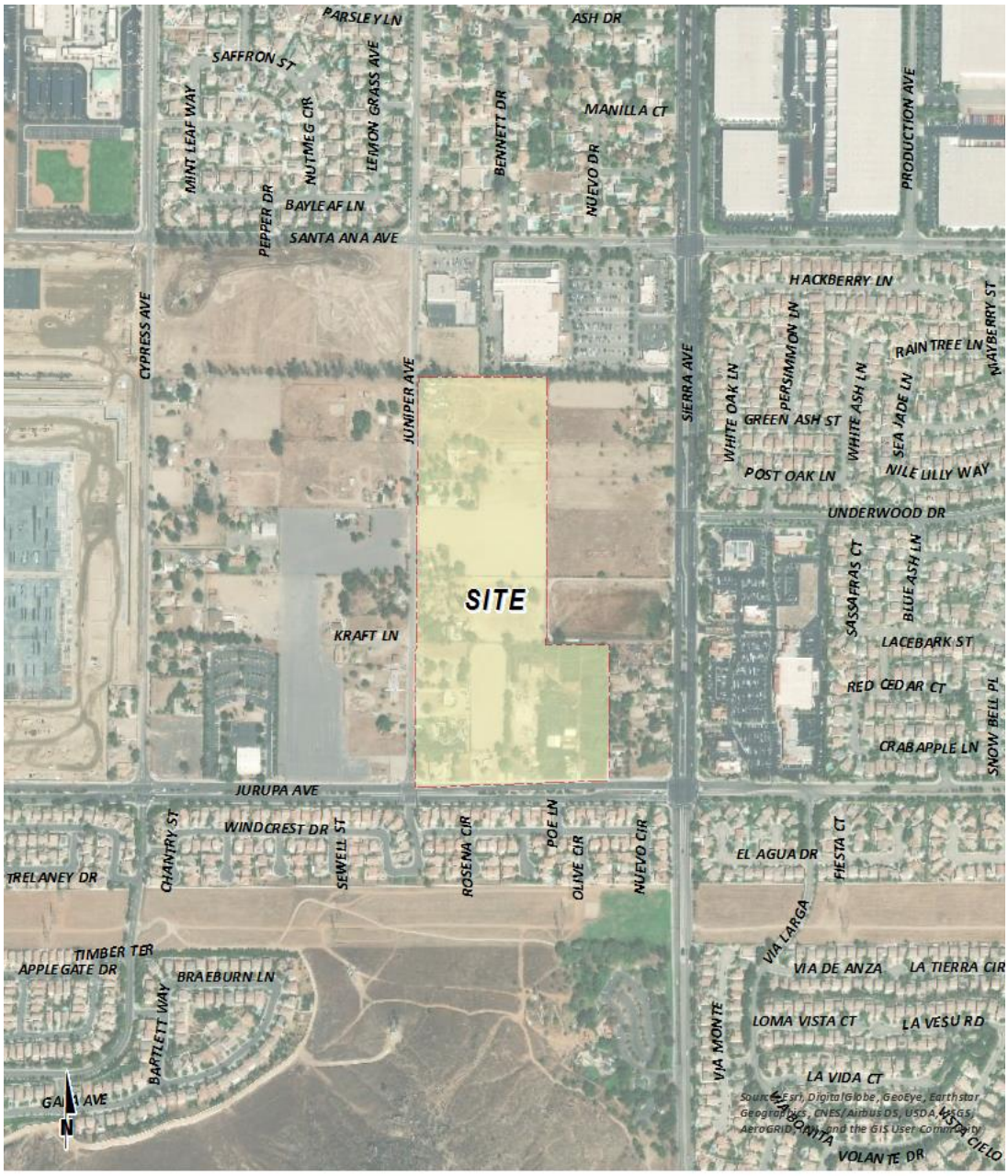
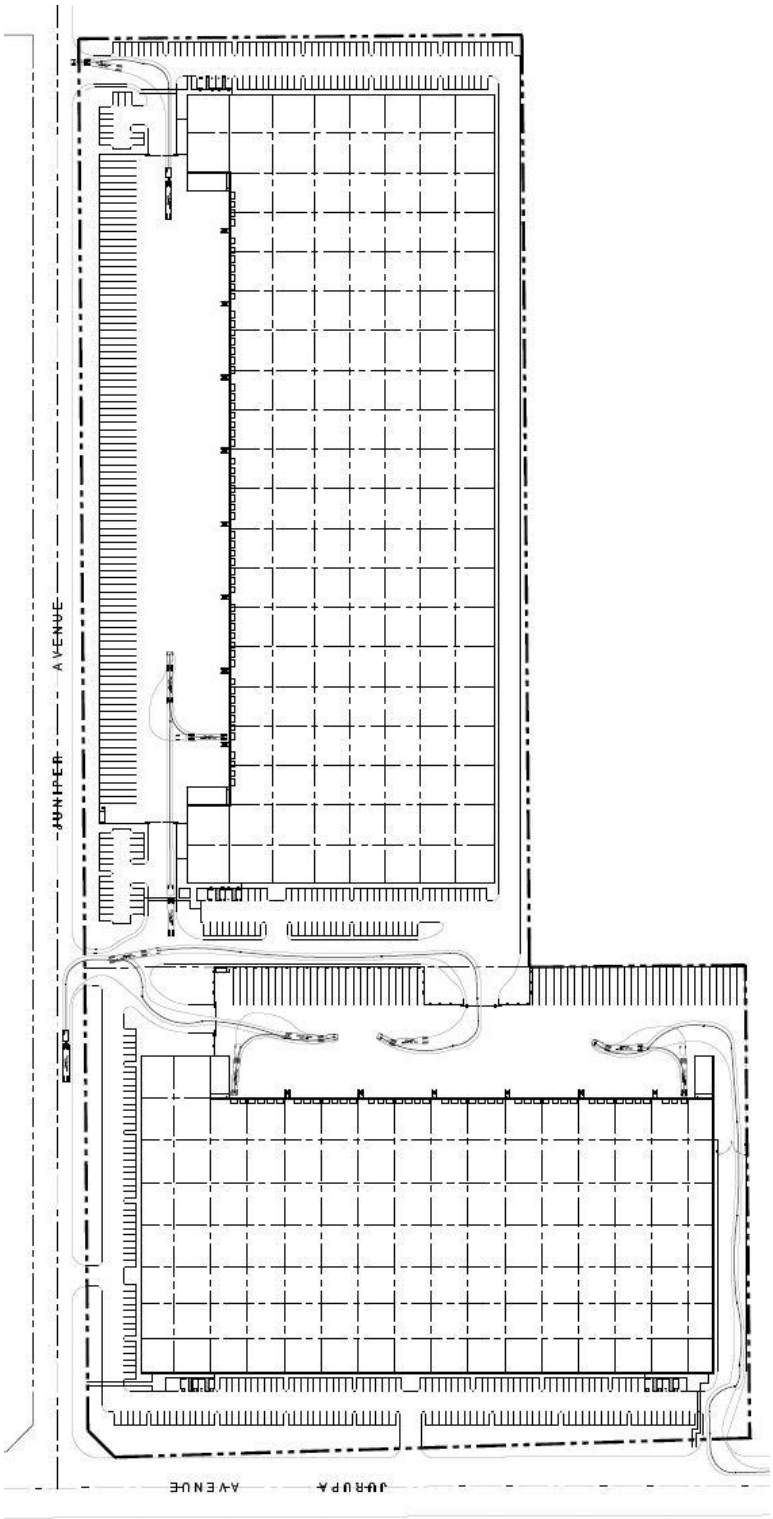


EXHIBIT 1-B: SITE PLAN



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2 CLIMATE CHANGE SETTING

2.1 INTRODUCTION TO GLOBAL CLIMATE CHANGE

Global Climate Change (GCC) is defined as the change in average meteorological conditions on the earth with respect to temperature, precipitation, and storms. The majority of scientists believe that the climate shift taking place since the Industrial Revolution is occurring at a quicker rate and magnitude than in the past. Scientific evidence suggests that GCC is the result of increased concentrations of GHGs in the earth's atmosphere, including carbon dioxide (CO_2), methane (CH_4), nitrous oxide (N_2O), and fluorinated gases. The majority of scientists believe that this increased rate of climate change is the result of GHGs resulting from human activity and industrialization over the past 200 years.

An individual project like the proposed Project evaluated in this GHGA cannot generate enough GHG emissions to affect a discernible change in global climate. However, the proposed Project may participate in the potential for GCC by its incremental contribution of GHGs combined with the cumulative increase of all other sources of GHGs, which when taken together constitute potential influences on GCC. Because these changes may have serious environmental consequences, Section 3.0 will evaluate the potential for the proposed Project to have a significant effect upon the environment as a result of its potential contribution to the greenhouse effect.

2.2 GLOBAL CLIMATE CHANGE DEFINED

GCC refers to the change in average meteorological conditions on the earth with respect to temperature, wind patterns, precipitation and storms. Global temperatures are regulated by naturally occurring atmospheric gases such as water vapor, CO_2, N_2O, CH_4, hydrofluorocarbons (HFCs), perfluorocarbons (PFCs), and sulfur hexafluoride (SF_6). These particular gases are important due to their residence time (duration they stay) in the atmosphere, which ranges from 10 years to more than 100 years. These gases allow solar radiation into the earth's atmosphere, but prevent radioactive heat from escaping, thus warming the earth's atmosphere. GCC can occur naturally as it has in the past with the previous ice ages.

Gases that trap heat in the atmosphere are often referred to as GHGs. GHGs are released into the atmosphere by both natural and anthropogenic activity. Without the natural GHG effect, the earth's average temperature would be approximately 61 degrees Fahrenheit (°F) cooler than it is currently. The cumulative accumulation of these gases in the earth's atmosphere is considered to be the cause for the observed increase in the earth's temperature.

2.3 GREENHOUSE GASES

GREENHOUSE GASES AND HEALTH EFFECTS

GHGs trap heat in the atmosphere, creating a GHG effect that results in global warming and climate change. Many gases demonstrate these properties and as discussed in Table 2-1. For

the purposes of this analysis, emissions of CO_2, CH_4, and N_2O were evaluated (see Table 3-1 later in this report) because these gases are the primary contributors to GCC from development projects. Although there are other substances such as fluorinated gases that also contribute to GCC, these fluorinated gases were not evaluated as their sources are not well-defined and do not contain accepted emissions factors or methodology to accurately calculate these gases.

TABLE 2-1: GREENHOUSE GASES

Greenhouse Gases	Description	Sources	Health Effects
Water	Water is the most abundant, important, and variable GHG in the atmosphere. Water vapor is not considered a pollutant; in the atmosphere it maintains a climate necessary for life. Changes in its concentration are primarily considered to be a result of climate feedbacks related to the warming of the atmosphere rather than a direct result of industrialization. A climate feedback is an indirect, or secondary, change, either positive or negative, that occurs within the climate system in response to a forcing mechanism. The feedback loop in which water is involved is critically important to projecting future climate change. As the temperature of the atmosphere rises, more water is evaporated from ground storage (rivers, oceans, reservoirs, soil). Because the air is warmer, the relative humidity can be higher (in essence, the air is able to 'hold' more water when it is warmer), leading to more water vapor in the atmosphere. As a GHG, the higher concentration of water vapor is then able to absorb more thermal indirect energy radiated from the Earth, thus further warming the atmosphere. The warmer atmosphere can then hold more water vapor and so on and so on. This is referred to as a "positive	The main source of water vapor is evaporation from the oceans (approximately 85%). Other sources include evaporation from other water bodies, sublimation (change from solid to gas) from sea ice and snow, and transpiration from plant leaves.	There are no known direct health effects related to water vapor at this time. It should be noted however that when some pollutants react with water vapor, the reaction forms a transport mechanism for some of these pollutants to enter the human body through water vapor.

Greenhouse Gases	Description	Sources	Health Effects
	feedback loop." The extent to which this positive feedback loop will continue is unknown as there are also dynamics that hold the positive feedback loop in check. As an example, when water vapor increases in the atmosphere, more of it will eventually condense into clouds, which are more able to reflect incoming solar radiation (thus allowing less energy to reach the earth's surface and heat it up) (13).		
CO_2	CO_2 is an odorless and colorless GHG. Since the industrial revolution began in the mid-1700s, the sort of human activity that increases GHG emissions has increased dramatically in scale and distribution. Data from the past 50 years suggests a corollary increase in levels and concentrations. As an example, prior to the industrial revolution, CO_2 concentrations were fairly stable at 280 parts per million (ppm). Today, they are around 370 ppm, an increase of more than 30%. Left unchecked, the concentration of CO_2 in the atmosphere is projected to increase to a minimum of 540 ppm by 2100 as a direct result of anthropogenic sources (14).	CO_2 is emitted from natural and manmade sources. Natural sources include: the decomposition of dead organic matter; respiration of bacteria, plants, animals and fungus; evaporation from oceans; and volcanic outgassing. Anthropogenic sources include: the burning of coal, oil, natural gas, and wood. CO_2 is naturally removed from the air by photosynthesis, dissolution into ocean water, transfer to soils and ice caps, and chemical weathering of carbonate rocks (15).	Outdoor levels of CO_2 are not high enough to result in negative health effects. According to the National Institute for Occupational Safety and Health (NIOSH) high concentrations of CO_2 can result in health effects such as: headaches, dizziness, restlessness, difficulty breathing, sweating, increased heart rate, increased cardiac output, increased blood pressure, coma, asphyxia, and/or convulsions. It should be noted that current concentrations of CO_2 in the earth's atmosphere are estimated to be approximately 370 ppm, the actual reference exposure level (level at which adverse health effects typically occur) is at exposure levels of 5,000 ppm averaged over 10 hours in a 40-hour workweek and short-term reference exposure levels of 30,000 ppm averaged over a 15 minute period (16).

Greenhouse Gases	Description	Sources	Health Effects
CH_4	CH_4 is an extremely effective absorber of radiation, although its atmospheric concentration is less than CO_2 and its lifetime in the atmosphere is brief (10-12 years), compared to other GHGs.	CH_4 has both natural and anthropogenic sources. It is released as part of the biological processes in low oxygen environments, such as in swamplands or in rice production (at the roots of the plants). Over the last 50 years, human activities such as growing rice, raising cattle, using natural gas, and mining coal have added to the atmospheric concentration of CH_4. Other anthropocentric sources include fossil-fuel combustion and biomass burning (17).	CH_4 is extremely reactive with oxidizers, halogens, and other halogen-containing compounds. Exposure to high levels of CH_4 can cause asphyxiation, loss of consciousness, headache and dizziness, nausea and vomiting, weakness, loss of coordination, and an increased breathing rate.
N_2O	N_2O, also known as laughing gas, is a colorless GHG. Concentrations of N_2O also began to rise at the beginning of the industrial revolution. In 1998, the global concentration was 314 parts per billion (ppb).	N_2O is produced by microbial processes in soil and water, including those reactions which occur in fertilizer containing nitrogen. In addition to agricultural sources, some industrial processes (fossil fuel-fired power plants, nylon production, nitric acid production, and vehicle emissions) also contribute to its atmospheric load. It is used as an aerosol spray propellant, i.e., in whipped cream bottles. It is also used in potato chip	N_2O can cause dizziness, euphoria, and sometimes slight hallucinations. In small doses, it is considered harmless. However, in some cases, heavy and extended use can cause Olney's Lesions (brain damage) (18).

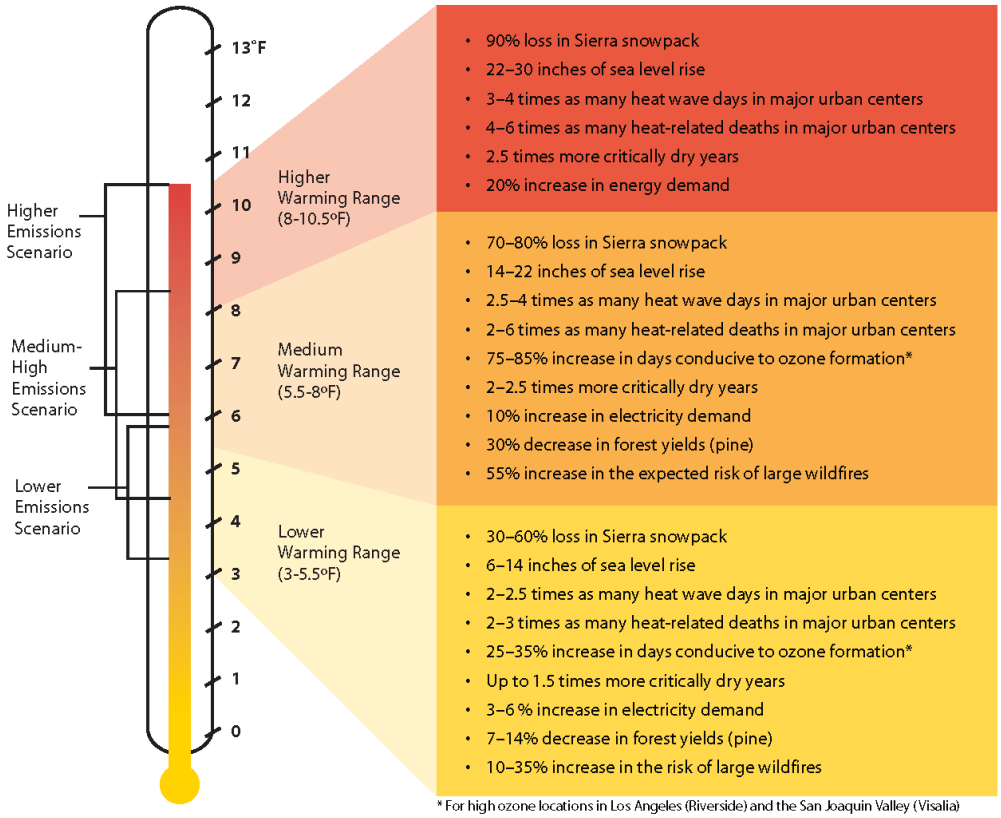
Greenhouse Gases	Description	Sources	Health Effects
		bags to keep chips fresh. It is used in rocket engines and in race cars. N_2O can be transported into the stratosphere, be deposited on the earth's surface, and be converted to other compounds by chemical reaction (18).	
Chlorofluorocarbons (CFCs)	CFCs are gases formed synthetically by replacing all hydrogen atoms in CH_4 or ethane (C_2H_6) with chlorine and/or fluorine atoms. CFCs are nontoxic, nonflammable, insoluble and chemically unreactive in the troposphere (the level of air at the earth's surface).	CFCs have no natural source but were first synthesized in 1928. They were used for refrigerants, aerosol propellants and cleaning solvents. Due to the discovery that they are able to destroy stratospheric ozone, a global effort to halt their production was undertaken and was extremely successful, so much so that levels of the major CFCs are now remaining steady or declining. However, their long atmospheric lifetimes mean that some of the CFCs will remain in the atmosphere for over 100 years (19).	In confined indoor locations, working with CFC-113 or other CFCs is thought to result in death by cardiac arrhythmia (heart frequency too high or too low) or asphyxiation.

Greenhouse Gases	Description	Sources	Health Effects
HFCs	HFCs are synthetic, man-made chemicals that are used as a substitute for CFCs. Out of all the GHGs, they are one of three groups with the highest global warming potential (GWP). The HFCs with the largest measured atmospheric abundances are (in order), fluoroform (CHF_3), 1,1,1,2-tetrafluoroethane (CH_2FCF), and 1,1-difluoroethane (CH_3CF_2). Prior to 1990, the only significant emissions were of CHF_3. CH_2FCF emissions are increasing due to its use as a refrigerant.	HFCs are manmade for applications such as automobile air conditioners and refrigerants.	No health effects are known to result from exposure to HFCs.
PFCs	PFCs have stable molecular structures and do not break down through chemical processes in the lower atmosphere. High-energy ultraviolet rays, which occur about 60 kilometers above earth's surface, are able to destroy the compounds. Because of this, PFCs have very long lifetimes, between 10,000 and 50,000 years. Two common PFCs are tetrafluoromethane (CF_4) and hexafluoroethane (C_2F_6). The EPA estimates that concentrations of CF_4 in the atmosphere are over 70 parts per trillion (ppt).	The two main sources of PFCs are primary aluminum production and semiconductor manufacture.	No health effects are known to result from exposure to PFCs.
SF_6	SF_6 is an inorganic, odorless, colorless, nontoxic, nonflammable gas. It also has the highest GWP of any gas evaluated (23,900) (20). The EPA indicates that concentrations in the 1990s were about 4 ppt.	SF_6 is used for insulation in electric power transmission and distribution equipment, in the magnesium industry, in semiconductor manufacturing, and as a tracer gas for leak detection.	In high concentrations in confined areas, the gas presents the hazard of suffocation because it displaces the oxygen needed for breathing.
Nitrogen Trifluoride (NF_3)	NF_3 is a colorless gas with a distinctly moldy odor. The World Resources Institute (WRI) indicates that NF_3 has a 100-year	NF_3 is used in industrial processes and is produced in the manufacturing of	Long-term or repeated exposure may affect the liver and kidneys and may cause

Greenhouse Gases	Description	Sources	Health Effects
	GWP of 17,200 (21).	semiconductors, Liquid Crystal Display (LCD) panels, types of solar panels, and chemical lasers.	fluorosis (22).

The potential health effects related directly to the emissions of CO_2, CH_4, and N_2O as they relate to development projects such as the proposed Project are still being debated in the scientific community. Their cumulative effects to GCC have the potential to cause adverse effects to human health. Increases in Earth's ambient temperatures would result in more intense heat waves, causing more heat-related deaths. Scientists also purport that higher ambient temperatures would increase disease survival rates and result in more widespread disease. Climate change will likely cause shifts in weather patterns, potentially resulting in devastating droughts and food shortages in some areas (23). Exhibit 2-A presents the potential impacts of global warming (24).

EXHIBIT 2-A: SUMMARY OF PROJECTED GLOBAL WARMING IMPACT, 2070-2099 (AS COMPARED WITH 1961-1990)



Source: Barbara H. Allen-Diaz. "Climate change affects us all." *University of California, Agriculture and Natural Resources*, 2009.

2.4 GLOBAL WARMING POTENTIAL

GHGs have varying GWP values. GWP of a GHG indicates the amount of warming a gas causes over a given period of time and represents the potential of a gas to trap heat in the atmosphere. CO_2 is utilized as the reference gas for GWP, and thus has a GWP of 1. CO_2 equivalent (CO_2e) is a term used for describing the difference GHGs in a common unit. CO_2e signifies the amount of CO_2 which would have the equivalent GWP.

The atmospheric lifetime and GWP of selected GHGs are summarized at Table 2-2. As shown in the table below, GWP for the Second Assessment Report, the Intergovernmental Panel on Climate Change (IPCC)'s scientific and socio-economic assessment on climate change, range from 1 for CO_2 to 23,900 for SF_6 and GWP for the IPCC's 5th Assessment Report range from 1 for CO_2 to 23,500 for SF_6 (25).

TABLE 2-2: GWP AND ATMOSPHERIC LIFETIME OF SELECT GHGS

Gas	Atmospheric Lifetime (years)	Global Warming Potential (100-year time horizon)	
		Second Assessment Report	5th Assessment Report
CO_2	See*	1	1
CH_4	12 .4	21	28
N_2O	121	310	265
HFC-23	222	11,700	12,400
HFC-134a	13.4	1,300	1,300
HFC-152a	1.5	140	138
SF_6	3,200	23,900	23,500

*As per Appendix 8.A. of IPCC's 5th Assessment Report, no single lifetime can be given.
Source: Table 2.14 of the IPCC Fourth Assessment Report, 2007

2.5 GREENHOUSE GAS EMISSIONS INVENTORIES

Global

Worldwide anthropogenic GHG emissions are tracked by the IPCC for industrialized nations (referred to as Annex I) and developing nations (referred to as Non-Annex I). Human GHG emissions data for Annex I nations are available through 2017. Based on the latest available data, the sum of these emissions totaled approximately 29,216,501 gigagram (Gg) CO_2e[1] (26) (27) as summarized on Table 2-3.

United States

[1] The global emissions are the sum of Annex I and non-Annex I countries, without counting Land-Use, Land-Use Change and Forestry (LULUCF). For countries without 2017 data, the UNFCCC data for the most recent year were used. United Nations Framework Convention on Climate Change, "Annex I Parties – GHG total without LULUCF," The most recent GHG emissions for China and India are from 2014.

As noted in Table 2-3, the United States, as a single country, was the number two producer of GHG emissions in 2017.

TABLE 2-3: TOP GHG PRODUCING COUNTRIES AND THE EUROPEAN UNION [2]

Emitting Countries	GHG Emissions (Gg CO_2e)
China	11,911,710
United States	6,456,718
European Union (28-member countries)	4,323,163
India	3,079,810
Russian Federation	2,155,470
Japan	1,289,630
Total	**29,216,501**

State of California

California has significantly slowed the rate of growth of GHG emissions due to the implementation of energy efficiency programs as well as adoption of strict emission controls, but is still a substantial contributor to the U.S. emissions inventory total (28). The California Air Resource Board (CARB) compiles GHG inventories for the State of California. Based upon the 2019 GHG inventory data (i.e., the latest year for which data are available) for the 2000-2017 GHG emissions period, California emitted an average 424.1 million metric tons of CO_2e per year ($MMTCO_2e/yr$) (29).

2.6 EFFECTS OF CLIMATE CHANGE IN CALIFORNIA

Public Health

Higher temperatures may increase the frequency, duration, and intensity of conditions conducive to air pollution formation. For example, days with weather conducive to ozone formation could increase from 25 to 35% under the lower warming range to 75 to 85% under the medium warming range. In addition, if global background ozone levels increase as predicted in some scenarios, it may become impossible to meet local air quality standards. Air quality could be further compromised by increases in wildfires, which emit fine particulate matter that can travel long distances, depending on wind conditions. The Climate Scenarios report indicates that large wildfires could become up to 55% more frequent if GHG emissions are not significantly reduced.

In addition, under the higher warming range scenario, there could be up to 100 more days per year with temperatures above 90°F in Los Angeles and 95°F in Sacramento by 2100. This is a large increase over historical patterns and approximately twice the increase projected if

[2] Used http://unfccc.int data for Annex I countries. Consulted the CAIT Climate Data Explorer in https://www.climatewatchdata.org site to reference Non-Annex I countries of China and India.

temperatures remain within or below the lower warming range. Rising temperatures could increase the risk of death from dehydration, heat stroke/exhaustion, heart attack, stroke, and respiratory distress caused by extreme heat.

Water Resources

A vast network of man-made reservoirs and aqueducts captures and transports water throughout the state from northern California rivers and the Colorado River. The current distribution system relies on Sierra Nevada snowpack to supply water during the dry spring and summer months. Rising temperatures, potentially compounded by decreases in precipitation, could severely reduce spring snowpack, increasing the risk of summer water shortages.

If temperatures continue to increase, more precipitation could fall as rain instead of snow, and the snow that does fall could melt earlier, reducing the Sierra Nevada spring snowpack by as much as 70 to 90%. Under the lower warming range scenario, snowpack losses could be only half as large as those possible if temperatures were to rise to the higher warming range. How much snowpack could be lost depends in part on future precipitation patterns, the projections for which remain uncertain. However, even under the wetter climate projections, the loss of snowpack could pose challenges to water managers and hamper hydropower generation. It could also adversely affect winter tourism. Under the lower warming range, the ski season at lower elevations could be reduced by as much as a month. If temperatures reach the higher warming range and precipitation declines, there might be many years with insufficient snow for skiing and snowboarding.

The State's water supplies are also at risk from rising sea levels. An influx of saltwater could degrade California's estuaries, wetlands, and groundwater aquifers. Saltwater intrusion caused by rising sea levels is a major threat to the quality and reliability of water within the southern edge of the Sacramento/San Joaquin River Delta – a major fresh water supply.

Agriculture

Increased temperatures could cause widespread changes to the agriculture industry reducing the quantity and quality of agricultural products statewide. First, California farmers could possibly lose as much as 25% of the water supply needed. Although higher CO_2 levels can stimulate plant production and increase plant water-use efficiency, California's farmers could face greater water demand for crops and a less reliable water supply as temperatures rise. Crop growth and development could change, as could the intensity and frequency of pest and disease outbreaks. Rising temperatures could aggravate ozone pollution, which makes plants more susceptible to disease and pests and interferes with plant growth.

Plant growth tends to be slow at low temperatures, increasing with rising temperatures up to a threshold. However, faster growth can result in less-than-optimal development for many crops, so rising temperatures could worsen the quantity and quality of yield for a number of California's agricultural products. Products likely to be most affected include wine grapes, fruits and nuts.

In addition, continued GCC could shift the ranges of existing invasive plants and weeds and alter competition patterns with native plants. Range expansion could occur in many species while range contractions may be less likely in rapidly evolving species with significant populations already established. Should range contractions occur, new or different weed species could fill the emerging gaps. Continued GCC could alter the abundance and types of many pests, lengthen pests' breeding season, and increase pathogen growth rates.

Forests and Landscapes

GCC has the potential to intensify the current threat to forests and landscapes by increasing the risk of wildfire and altering the distribution and character of natural vegetation. If temperatures rise into the medium warming range, the risk of large wildfires in California could increase by as much as 55%, which is almost twice the increase expected if temperatures stay in the lower warming range. However, since wildfire risk is determined by a combination of factors, including precipitation, winds, temperature, and landscape and vegetation conditions, future risks will not be uniform throughout the state. In contrast, wildfires in northern California could increase by up to 90% due to decreased precipitation.

Moreover, continued GCC has the potential to alter natural ecosystems and biological diversity within the state. For example, alpine and subalpine ecosystems could decline by as much as 60 to 80% by the end of the century as a result of increasing temperatures. The productivity of the state's forests has the potential to decrease as a result of GCC.

Rising Sea Levels

Rising sea levels, more intense coastal storms, and warmer water temperatures could increasingly threaten the state's coastal regions. Under the higher warming range scenario, sea level is anticipated to rise 22 to 35 inches by 2100. Elevations of this magnitude would inundate low-lying coastal areas with saltwater, accelerate coastal erosion, threaten vital levees and inland water systems, and disrupt wetlands and natural habitats. Under the lower warming range scenario, sea level could rise 12-14 inches.

2.7 REGULATORY SETTING

INTERNATIONAL

Climate change is a global issue involving GHG emissions from all around the world; therefore, countries such as the ones discussed below have made an effort to reduce GHGs.

IPCC. In 1988, the United Nations and the World Meteorological Organization established the IPCC to assess the scientific, technical and socioeconomic information relevant to understanding the scientific basis of risk of human-induced climate change, its potential impacts, and options for adaptation and mitigation.

United Nation's Framework Convention on Climate Change (Convention). On March 21, 1994, the U.S. joined a number of countries around the world in signing the Convention. Under the Convention, governments gather and share information on GHG emissions, national policies,

and best practices; launch national strategies for addressing GHG emissions and adapting to expected impacts, including the provision of financial and technological support to developing countries; and cooperate in preparing for adaptation to the impacts of climate change.

International Climate Change Treaties. The Kyoto Protocol is an international agreement linked to the Convention. The major feature of the Kyoto Protocol is that it sets binding targets for 37 industrialized countries and the European community for reducing GHG emissions at an average of 5% against 1990 levels over the five-year period 2008–2012. The Convention (as discussed above) encouraged industrialized countries to stabilize emissions; however, the Protocol commits them to do so. Developed countries have contributed more emissions over the last 150 years; therefore, the Protocol places a heavier burden on developed nations under the principle of "common but differentiated responsibilities."

In 2001, President George W. Bush indicated that he would not submit the treaty to the U.S. Senate for ratification, which effectively ended American involvement in the Kyoto Protocol. In December 2009, international leaders met in Copenhagen to address the future of international climate change commitments post-Kyoto. No binding agreement was reached in Copenhagen; however, the Committee identified the long-term goal of limiting the maximum global average temperature increase to no more than 2 degrees Celsius (°C) above pre-industrial levels, subject to a review in 2015. The UN Climate Change Committee held additional meetings in Durban, South Africa in November 2011; Doha, Qatar in November 2012; and Warsaw, Poland in November 2013. The meetings are gradually gaining consensus among participants on individual climate change issues.

On September 23, 2014 more than 100 Heads of State and Government and leaders from the private sector and civil society met at the Climate Summit in New York hosted by the United Nations. At the Summit, heads of government, business and civil society announced actions in areas that would have the greatest impact on reducing emissions, including climate finance, energy, transport, industry, agriculture, cities, forests, and building resilience.

Parties to the U.N. Framework Convention on Climate Change (UNFCCC) reached a landmark agreement on December 12, 2015 in Paris, charting a fundamentally new course in the two-decade-old global climate effort. Culminating a four-year negotiating round, the new treaty ends the strict differentiation between developed and developing countries that characterized earlier efforts, replacing it with a common framework that commits all countries to put forward their best efforts and to strengthen them in the years ahead. This includes, for the first time, requirements that all parties report regularly on their emissions and implementation efforts and undergo international review.

The agreement and a companion decision by parties were the key outcomes of the conference, known as the 21st session of the UNFCCC Conference of the Parties (COP) 21. Together, the Paris Agreement and the accompanying COP decision:

- Reaffirm the goal of limiting global temperature increase well below 2 °C, while urging efforts to limit the increase to 1.5 degrees;

- Establish binding commitments by all parties to make "nationally determined contributions" (NDCs), and to pursue domestic measures aimed at achieving them;
- Commit all countries to report regularly on their emissions and "progress made in implementing and achieving" their NDCs, and to undergo international review;
- Commit all countries to submit new NDCs every five years, with the clear expectation that they will "represent a progression" beyond previous ones;
- Reaffirm the binding obligations of developed countries under the UNFCCC to support the efforts of developing countries, while for the first time encouraging voluntary contributions by developing countries too;
- Extend the current goal of mobilizing $100 billion a year in support by 2020 through 2025, with a new, higher goal to be set for the period after 2025;
- Extend a mechanism to address "loss and damage" resulting from climate change, which explicitly will not "involve or provide a basis for any liability or compensation;"
- Require parties engaging in international emissions trading to avoid "double counting;" and
- Call for a new mechanism, similar to the Clean Development Mechanism under the Kyoto Protocol, enabling emission reductions in one country to be counted toward another country's NDC (C2ES 2015a) (30).

On November 4, 2019, the Trump administration formally notified the United Nations that the United States would withdraw from the Paris Agreement. It should be noted that withdrawal would be effective one year after notification in 2020.

NATIONAL

Prior to the last decade, there have been no concrete federal regulations of GHGs or major planning for climate change adaptation. The following are actions regarding the federal government, GHGs, and fuel efficiency.

GHG Endangerment. In *Massachusetts v. Environmental Protection Agency* 549 U.S. 497 (2007), decided on April 2, 2007, the United States Supreme Court (U.S. Court) found that four GHGs, including CO_2, are air pollutants subject to regulation under Section 202(a)(1) of the Clean Air Act (CAA). The Court held that the EPA Administrator must determine whether emissions of GHGs from new motor vehicles cause or contribute to air pollution, which may reasonably be anticipated to endanger public health or welfare, or whether the science is too uncertain to make a reasoned decision. On December 7, 2009, the EPA Administrator signed two distinct findings regarding GHGs under section 202(a) of the CAA:

- Endangerment Finding: The Administrator finds that the current and projected concentrations of the six key well-mixed GHGs— CO_2, CH_4, N_2O, HFCs, PFCs, and SF_6—in the atmosphere threaten the public health and welfare of current and future generations.
- Cause or Contribute Finding: The Administrator finds that the combined emissions of these well-mixed GHGs from new motor vehicles and new motor vehicle engines contribute to the GHG pollution, which threatens public health and welfare.

These findings do not impose requirements on industry or other entities. However, this was a prerequisite for implementing GHG emissions standards for vehicles, as discussed in the section "Clean Vehicles" below. After a lengthy legal challenge, the U.S. Court declined to review an Appeals Court ruling that upheld the EPA Administrator's findings (31).

Clean Vehicles. Congress first passed the Corporate Average Fuel Economy law in 1975 to increase the fuel economy of cars and light duty trucks. The law has become more stringent over time. On May 19, 2009, President Obama put in motion a new national policy to increase fuel economy for all new cars and trucks sold in the U.S. On April 1, 2010, the EPA and the Department of Transportation's National Highway Traffic Safety Administration (NHTSA) announced a joint final rule establishing a national program that would reduce GHG emissions and improve fuel economy for new cars and trucks sold in the U.S.

The first phase of the national program applies to passenger cars, light-duty trucks, and medium-duty (MD) passenger vehicles, covering model years 2012 through 2016. They require these vehicles to meet an estimated combined average emissions level of 250 grams of CO_2 per mile, equivalent to 35.5 miles per gallon (mpg) if the automobile industry were to meet this CO_2 level solely through fuel economy improvements. Together, these standards would cut CO_2 emissions by an estimated 960 million metric tons and 1.8 billion barrels of oil over the lifetime of the vehicles sold under the program (model years 2012–2016). The EPA and the NHTSA issued final rules on a second-phase joint rulemaking establishing national standards for light-duty vehicles for model years 2017 through 2025 in August 2012. The new standards for model years 2017 through 2025 apply to passenger cars, light-duty trucks, and MD passenger vehicles. The final standards are projected to result in an average industry fleetwide level of 163 grams/mile of CO_2 in model year 2025, which is equivalent to 54.5 mpg if achieved exclusively through fuel economy improvements.

The EPA and the U.S. Department of Transportation issued final rules for the first national standards to reduce GHG emissions and improve fuel efficiency of heavy-duty trucks (HDT) and buses on September 15, 2011, effective November 14, 2011. For combination tractors, the agencies are proposing engine and vehicle standards that begin in the 2014 model year and achieve up to a 20% reduction in CO_2 emissions and fuel consumption by the 2018 model year. For HDT and vans, the agencies are proposing separate gasoline and diesel truck standards, which phase in starting in the 2014 model year and achieve up to a 10-percent reduction for gasoline vehicles and a 15% reduction for diesel vehicles by the 2018 model year (12 and 17% respectively if accounting for air conditioning leakage). Lastly, for vocational vehicles, the engine and vehicle standards would achieve up to a 10% reduction in fuel consumption and CO_2 emissions from the 2014 to 2018 model years.

On April 2, 2018, the EPA signed the Mid-term Evaluation Final Determination, which finds that the model year 2022-2025 GHG standards are not appropriate and should be revised (32). This Final Determination serves to initiate a notice to further consider appropriate standards for model year 2022-2025 light-duty vehicles. On August 24, 2018, the EPA and NHTSA published a proposal to freeze the model year 2020 standards through model year 2026 and to revoke California's waiver under the CAA to establish more stringent standards (33).

Mandatory Reporting of GHGs. The Consolidated Appropriations Act of 2008, passed in December 2007, requires the establishment of mandatory GHG reporting requirements. On September 22, 2009, the EPA issued the Final Mandatory Reporting of GHGs Rule, which became effective January 1, 2010. The rule requires reporting of GHG emissions from large sources and suppliers in the U.S. and is intended to collect accurate and timely emissions data to inform future policy decisions. Under the rule, suppliers of fossil fuels or industrial GHGs, manufacturers of vehicles and engines, and facilities that emit 25,000 metric tons per year (MT/yr) or more of GHG emissions are required to submit annual reports to the EPA.

New Source Review. The EPA issued a final rule on May 13, 2010, that establishes thresholds for GHGs that define when permits under the New Source Review Prevention of Significant Deterioration and Title V Operating Permit programs are required for new and existing industrial facilities. This final rule "tailors" the requirements of these CAA permitting programs to limit which facilities will be required to obtain Prevention of Significant Deterioration and Title V permits. In the preamble to the revisions to the Federal Code of Regulations, the EPA states:

> *"This rulemaking is necessary because without it the Prevention of Significant Deterioration and Title V requirements would apply, as of January 2, 2011, at the 100 or 250 tons per year levels provided under the CAA, greatly increasing the number of required permits, imposing undue costs on small sources, overwhelming the resources of permitting authorities, and severely impairing the functioning of the programs. EPA is relieving these resource burdens by phasing in the applicability of these programs to GHG sources, starting with the largest GHG emitters. This rule establishes two initial steps of the phase-in. The rule also commits the agency to take certain actions on future steps addressing smaller sources but excludes certain smaller sources from Prevention of Significant Deterioration and Title V permitting for GHG emissions until at least April 30, 2016."*

The EPA estimates that facilities responsible for nearly 70% of the national GHG emissions from stationary sources will be subject to permitting requirements under this rule. This includes the nation's largest GHG emitters—power plants, refineries, and cement production facilities.

Standards of Performance for GHG Emissions for New Stationary Sources: Electric Utility Generating Units. As required by a settlement agreement, the EPA proposed new performance standards for emissions of CO_2 for new, affected, fossil fuel-fired electric utility generating units on March 27, 2012. New sources greater than 25 megawatts (MW) would be required to meet an output-based standard of 1,000 pounds (lbs) of CO_2 per MW-hour (MWh), based on the performance of widely used natural gas combined cycle technology. It should be noted that on February 9, 2016 the U.S. Court issued a stay of this regulation pending litigation. Additionally, the current EPA Administrator has also signed a measure to repeal the Clean Power Plan, including the CO_2 standards. The Clean Power Plan was officially repealed on June 19, 2019, when the EPA issued the final Affordable Clean Energy rule (ACE). Under ACE, new state

emission guidelines were established that provided existing coal-fired electric utility generating units with achievable standards.

Cap-and-Trade. Cap-and-trade refers to a policy tool where emissions are limited to a certain amount and can be traded or provides flexibility on how the emitter can comply. Successful examples in the U.S. include the Acid Rain Program and the N_2O Budget Trading Program and Clean Air Interstate Rule in the northeast. There is no federal GHG cap-and-trade program currently; however, some states have joined to create initiatives to provide a mechanism for cap-and-trade.

The Regional GHG Initiative is an effort to reduce GHGs among the states of Connecticut, Delaware, Maine, Maryland, Massachusetts, New Hampshire, New York, Rhode Island, and Vermont. Each state caps CO_2 emissions from power plants, auctions CO_2 emission allowances, and invests the proceeds in strategic energy programs that further reduce emissions, save consumers money, create jobs, and build a clean energy economy. The Initiative began in 2008 and in 2020 has retained all participating states.

The Western Climate Initiative (WCI) partner jurisdictions have developed a comprehensive initiative to reduce regional GHG emissions to 15% below 2005 levels by 2020. The partners were originally California, British Columbia, Manitoba, Ontario, and Quebec. However, Manitoba and Ontario are not currently participating. California linked with Quebec's cap-and-trade system January 1, 2014, and joint offset auctions took place in 2015. While the WCI has yet to publish whether it has successfully reached the 2020 emissions goal initiative set in 2007, SB 32, requires that California, a major partner in the WCI, adopt the goal of reducing statewide GHG emissions to 40% below the 1990 level by 2030.

SmartWay Program. The SmartWay Program is a public-private initiative between the EPA, large and small trucking companies, rail carriers, logistics companies, commercial manufacturers, retailers, and other federal and state agencies. Its purpose is to improve fuel efficiency and the environmental performance (reduction of both GHG emissions and air pollution) of the goods movement supply chains. SmartWay is comprised of four components (34):

1. SmartWay Transport Partnership: A partnership in which freight carriers and shippers commit to benchmark operations, track fuel consumption, and improve performance annually.
2. SmartWay Technology Program: A testing, verification, and designation program to help freight companies identify equipment, technologies, and strategies that save fuel and lower emissions.
3. SmartWay Vehicles: A program that ranks light-duty cars and small trucks and identifies superior environmental performers with the SmartWay logo.
4. SmartWay International Interests: Guidance and resources for countries seeking to develop freight sustainability programs modeled after SmartWay.

SmartWay effectively refers to requirements geared towards reducing fuel consumption. Most large trucking fleets driving newer vehicles are compliant with SmartWay design requirements. Moreover, over time, all HDTs will have to comply with the CARB GHG Regulation that is designed with the SmartWay Program in mind, to reduce GHG emissions by making them more

fuel-efficient. For instance, in 2015, 53 foot or longer dry vans or refrigerated trailers equipped with a combination of SmartWay-verified low-rolling resistance tires and SmartWay-verified aerodynamic devices would obtain a total of 10% or more fuel savings over traditional trailers.

Through the SmartWay Technology Program, the EPA has evaluated the fuel saving benefits of various devices through grants, cooperative agreements, emissions and fuel economy testing, demonstration projects and technical literature review. As a result, the EPA has determined the following types of technologies provide fuel saving and/or emission reducing benefits when used properly in their designed applications, and has verified certain products:

- Idle reduction technologies – less idling of the engine when it is not needed would reduce fuel consumption.
- Aerodynamic technologies minimize drag and improve airflow over the entire tractor-trailer vehicle. Aerodynamic technologies include gap fairings that reduce turbulence between the tractor and trailer, side skirts that minimize wind under the trailer, and rear fairings that reduce turbulence and pressure drop at the rear of the trailer.
- Low rolling resistance tires can roll longer without slowing down, thereby reducing the amount of fuel used. Rolling resistance (or rolling friction or rolling drag) is the force resisting the motion when a tire rolls on a surface. The wheel will eventually slow down because of this resistance.
- Retrofit technologies include things such as diesel particulate filters, emissions upgrades (to a higher tier), etc., which would reduce emissions.
- Federal excise tax exemptions.

CALIFORNIA

Legislative Actions to Reduce GHGs

The State of California legislature has enacted a series of bills that constitute the most aggressive program to reduce GHGs of any state in the nation. Some legislation such as the landmark AB 32 was specifically enacted to address GHG emissions. Other legislation such as Title 24 and Title 20 energy standards were originally adopted for other purposes such as energy and water conservation, but also provide GHG reductions. This section describes the major provisions of the legislation.

AB 32. The California State Legislature enacted AB 32, which required that GHGs emitted in California be reduced to 1990 levels by the year 2020 (this goal has been met[3]). GHGs as defined under AB 32 include CO_2, CH_4, N_2O, HFCs, PFCs, and SF_6. Since AB 32 was enacted, a seventh chemical, nitrogen trifluoride, has also been added to the list of GHGs. The CARB is the state agency charged with monitoring and regulating sources of GHGs. AB 32 states the following:

[3] Based upon the 2019 GHG inventory data (i.e., the latest year for which data are available) for the 2000-2017 GHG emissions period, California emitted an average 424.1 $MMTCO_2e$ (30). This is less than the 2020 emissions target of 431 $MMTCO_2e$.

> *"Global warming poses a serious threat to the economic well-being, public health, natural resources, and the environment of California. The potential adverse impacts of global warming include the exacerbation of air quality problems, a reduction in the quality and supply of water to the state from the Sierra snowpack, a rise in sea levels resulting in the displacement of thousands of coastal businesses and residences, damage to marine ecosystems and the natural environment, and an increase in the incidences of infectious diseases, asthma, and other human health-related problems."*

SB 32. On September 8, 2016, Governor Jerry Brown signed the SB 32 and its companion bill, AB 197. SB 32 requires the state to reduce statewide GHG emissions to 40% below 1990 levels by 2030, a reduction target that was first introduced in Executive Order B-30-15. The new legislation builds upon the AB 32 goal and provides an intermediate goal to achieving S-3-05, which sets a statewide GHG reduction target of 80% below 1990 levels by 2050. AB 197 creates a legislative committee to oversee regulators to ensure that CARB not only responds to the Governor, but also the Legislature (11).

CARB Scoping Plan Update. In November 2017, CARB released the *Final 2017 Scoping Plan Update*, which identifies the State's post-2020 reduction strategy. The *Final 2017 Scoping Plan Update* reflects the 2030 target of a 40% reduction below 1990 levels, set by Executive Order B-30-15 and codified by SB 32. Key programs that the proposed Second Update builds upon include the Cap-and-Trade Regulation, the LCFS, and much cleaner cars, trucks and freight movement, utilizing cleaner, renewable energy, and strategies to reduce CH_4 emissions from agricultural and other wastes.

The *Final 2017 Scoping Plan Update* establishes a new emissions limit of 260 $MMTCO_2e$ for the year 2030, which corresponds to a 40% decrease in 1990 levels by 2030 (35).

California's climate strategy will require contributions from all sectors of the economy, including the land base, and will include enhanced focus on zero- and near-zero-emission (ZE/NZE) vehicle technologies; continued investment in renewables, including solar roofs, wind, and other distributed generation; greater use of low carbon fuels; integrated land conservation and development strategies; coordinated efforts to reduce emissions of short-lived climate pollutants (CH_4, black carbon, and fluorinated gases); and an increased focus on integrated land use planning to support livable, transit-connected communities and conservation of agricultural and other lands. Requirements for direct GHG reductions at refineries will further support air quality co-benefits in neighborhoods, including in disadvantaged communities historically located adjacent to these large stationary sources, as well as efforts with California's local air pollution control and air quality management districts (air districts) to tighten emission limits on a broad spectrum of industrial sources. Major elements of the *Final 2017 Scoping Plan Update* framework include:

- Implementing and/or increasing the standards of the Mobile Source Strategy, which include increasing ZEV buses and trucks.
- LCFS, with an increased stringency (18% by 2030).

- Implementing SB 350, which expands the RPS to 50% RPS and doubles energy efficiency savings by 2030.
- California Sustainable Freight Action Plan, which improves freight system efficiency, utilizes near-zero emissions technology, and deployment of zero-emission vehicles (ZEV) trucks.
- Implementing the proposed Short-Lived Climate Pollutant Strategy (SLPS), which focuses on reducing CH_4 and hydroflurocarbon emissions by 40% and anthropogenic black carbon emissions by 50% by year 2030.
- Continued implementation of SB 375.
- Post-2020 Cap-and-Trade Program that includes declining caps.
- 20% reduction in GHG emissions from refineries by 2030.
- Development of a Natural and Working Lands Action Plan to secure California's land base as a net carbon sink.

Note, however, that the *Final 2017 Scoping Plan Update* acknowledges that:

> *"[a]chieving net zero increases in GHG emissions, resulting in no contribution to GHG impacts, may not be feasible or appropriate for every project, however, and the inability of a project to mitigate its GHG emissions to net zero does not imply the project results in a substantial contribution to the cumulatively significant environmental impact of climate change under CEQA."*

In addition to the statewide strategies listed above, the *Final 2017 Scoping Plan Update* also identifies local governments as essential partners in achieving the State's long-term GHG reduction goals and identifies local actions to reduce GHG emissions. As part of the recommended actions, CARB recommends that local governments achieve a community-wide goal to achieve emissions of no more than 6 metric tons of CO_2e ($MTCO_2e$) or less per capita by 2030 and 2 $MTCO_2e$ or less per capita by 2050. For CEQA projects, CARB states that lead agencies may develop evidenced-based bright-line numeric thresholds—consistent with the Scoping Plan and the State's long-term GHG goals—and projects with emissions over that amount may be required to incorporate on-site design features and mitigation measures that avoid or minimize project emissions to the degree feasible; or, a performance-based metric using a CAP or other plan to reduce GHG emissions is appropriate.

According to research conducted by the Lawrence Berkeley National Laboratory (LBNL) and supported by CARB, California, under its existing and proposed GHG reduction policies, could achieve the 2030 goals under SB 32. The research utilized a new, validated model known as the California LBNL GHG Analysis of Policies Spreadsheet (CALGAPS), which simulates GHG and criteria pollutant emissions in California from 2010 to 2050 in accordance to existing and future GHG-reducing policies. The CALGAPS model showed that by 2030, emissions could range from 211 to 428 $MTCO_2e$ per year ($MTCO_2e$/yr), indicating that "even if all modeled policies are not implemented, reductions could be sufficient to reduce emissions 40% below the 1990 level [of SB 32]." CALGAPS analyzed emissions through 2050 even though it did not generally account for policies that might be put in place after 2030. Although the research indicated that the emissions would not meet the State's 80% reduction goal by 2050, various combinations of

policies could allow California's cumulative emissions to remain very low through 2050 (36) (37).

Cap-and-Trade Program. The Scoping Plan identifies a Cap-and-Trade Program as one of the key strategies for California to reduce GHG emissions. According to CARB, a cap-and-trade program will help put California on the path to meet its goal of achieving a 40% reduction in GHG emissions from 1990 levels by 2030. Under cap-and-trade, an overall limit on GHG emissions from capped sectors is established, and facilities subject to the cap will be able to trade permits to emit GHGs within the overall limit.

CARB adopted a California Cap-and-Trade Program pursuant to its authority under AB 32. The Cap-and-Trade Program is designed to reduce GHG emissions from regulated entities by more than 16% between 2013 and 2020, and by an additional 40% by 2030. The statewide cap for GHG emissions from the capped sectors (e.g., electricity generation, petroleum refining, and cement production) commenced in 2013 and will decline over time, achieving GHG emission reductions throughout the program's duration.

Covered entities that emit more than 25.000 $MTCO_2e$/yr must comply with the Cap-and-Trade Program. Triggering of the 25.000 $MTCO_2e$/yr "inclusion threshold" is measured against a subset of emissions reported and verified under the California Regulation for the Mandatory Reporting of GHG Emissions (Mandatory Reporting Rule or "MRR").

Under the Cap-and-Trade Program, CARB issues allowances equal to the total amount of allowable emissions over a given compliance period and distributes these to regulated entities. Covered entities are allocated free allowances in whole or part (if eligible), and may buy allowances at auction, purchase allowances from others, or purchase offset credits. Each covered entity with a compliance obligation is required to surrender "compliance instruments" for each $MTCO_2e$ of GHG they emit. There also are requirements to surrender compliance instruments covering 30% of the prior year's compliance obligation by November of each year (38).

The Cap-and-Trade Program provides a firm cap, which provides the highest certainty of achieving the 2030 target. An inherent feature of the Cap-and-Trade program is that it does not guarantee GHG emissions reductions in any discrete location or by any particular source. Rather, GHG emissions reductions are only guaranteed on an accumulative basis. As summarized by CARB in the *First Update to the Climate Change Scoping Plan*:

> *"The Cap-and-Trade Regulation gives companies the flexibility to trade allowances with others or take steps to cost-effectively reduce emissions at their own facilities. Companies that emit more have to turn in more allowances or other compliance instruments. Companies that can cut their GHG emissions have to turn in fewer allowances. But as the cap declines, aggregate emissions must be reduced. In other words, a covered entity theoretically could increase its GHG emissions every year and still comply with the Cap-and-Trade Program if there is a reduction in GHG emissions from other covered entities. Such a focus on aggregate GHG emissions is considered appropriate because climate change is a*

> *global phenomenon, and the effects of GHG emissions are considered cumulative."* (39)

The Cap-and-Trade Program covered approximately 80% of California's GHG emissions (35). The Cap-and-Trade Program covers the GHG emissions associated with electricity consumed in California, whether generated in-state or imported. Accordingly, GHG emissions associated with CEQA projects' electricity usage are covered by the Cap-and-Trade Program. The Cap-and-Trade Program also covers fuel suppliers (natural gas and propane fuel providers and transportation fuel providers) to address emissions from such fuels and from combustion of other fossil fuels not directly covered at large sources in the Program's first compliance period. The Cap-and-Trade Program covers the GHG emissions associated with the combustion of transportation fuels in California, whether refined in-state or imported.

SB 375 – the Sustainable Communities and Climate Protection Act of 2008. Passing the Senate on August 30, 2008, SB 375 was signed by the Governor on September 30, 2008. According to SB 375, the transportation sector is the largest contributor of GHG emissions, which emits over 40% of the total GHG emissions in California. SB 375 states, "Without improved land use and transportation policy, California will not be able to achieve the goals of AB 32." SB 375 does the following: it (1) requires metropolitan planning organizations to include sustainable community strategies in their regional transportation plans for reducing GHG emissions, (2) aligns planning for transportation and housing, and (3) creates specified incentives for the implementation of the strategies.

Concerning CEQA, SB 375, as codified in Public Resources Code Section 21159.28, states that CEQA findings for certain projects are not required to reference, describe, or discuss (1) growth inducing impacts, or (2) any project-specific or cumulative impacts from cars and light-duty truck trips generated by the project on global warming or the regional transportation network, if the project:

1. Is in an area with an approved sustainable communities strategy or an alternative planning strategy that the CARB accepts as achieving the GHG emission reduction targets.
2. Is consistent with that strategy (in designation, density, building intensity, and applicable policies).
3. Incorporates the mitigation measures required by an applicable prior environmental document.

AB 1493. California AB 1493, enacted on July 22, 2002, required CARB to develop and adopt regulations that reduce GHGs emitted by passenger vehicles and light duty trucks. Implementation of the regulation was delayed by lawsuits filed by automakers and by the EPA's denial of an implementation waiver. The EPA subsequently granted the requested waiver in 2009, which was upheld by the U.S. District Court for the District of Columbia in 2011.

The standards phase in during the 2009 through 2016 model years. When fully phased in, the near-term (2009–2012) standards will result in about a 22% reduction compared with the 2002 fleet, and the mid-term (2013–2016) standards will result in about a 30% reduction. Several technologies stand out as providing significant reductions in emissions at favorable costs. These include discrete variable valve lift or camless valve actuation to optimize valve operation rather than relying on fixed valve timing and lift as has historically been done; turbocharging to

boost power and allow for engine downsizing; improved multi-speed transmissions; and improved air conditioning systems that operate optimally, leak less, and/or use an alternative refrigerant.

The second phase of the implementation for the Pavley bill was incorporated into Amendments to the Low-Emission Vehicle Program (LEV III) or the Advanced Clean Cars program. The Advanced Clean Car program combines the control of smog-causing pollutants and GHG emissions into a single coordinated package of requirements for model years 2017 through 2025. The regulation will reduce GHGs from new cars by 34% from 2016 levels by 2025. The new rules will clean up gasoline and diesel-powered cars, and deliver increasing numbers of zero-emission technologies, such as full battery electric cars, newly emerging plug-in hybrid electric vehicles (EV) and hydrogen fuel cell cars. The package will also ensure adequate fueling infrastructure is available for the increasing numbers of hydrogen fuel cell vehicles planned for deployment in California.

SB 350— Clean Energy and Pollution Reduction Act of 2015. In October 2015, the legislature approved, and the Governor signed SB 350, which reaffirms California's commitment to reducing its GHG emissions and addressing climate change. Key provisions include an increase in the RPS, higher energy efficiency requirements for buildings, initial strategies towards a regional electricity grid, and improved infrastructure for EV charging stations. Provisions for a 50% reduction in the use of petroleum statewide were removed from the Bill because of opposition and concern that it would prevent the Bill's passage. Specifically, SB 350 requires the following to reduce statewide GHG emissions:

- Increase the amount of electricity procured from renewable energy sources from 33% to 50% by 2030, with interim targets of 40% by 2024, and 25% by 2027.
- Double the energy efficiency in existing buildings by 2030. This target will be achieved through the California Public Utility Commission (CPUC), the California Energy Commission (CEC), and local publicly owned utilities.
- Reorganize the Independent System Operator to develop more regional electrify transmission markets and to improve accessibility in these markets, which will facilitate the growth of renewable energy markets in the western United States.

EXECUTIVE ORDERS RELATED TO GHG EMISSIONS

California's Executive Branch has taken several actions to reduce GHGs through the use of Executive Orders. Although not regulatory, they set the tone for the state and guide the actions of state agencies.

Executive Order B-55-18 and SB 100. Executive Order B-55-18 and SB 100. SB 100 and Executive Order B-55-18 were signed by Governor Brown on September 10, 2018. Under the existing RPS, 25% of retail sales are required to be from renewable sources by December 31, 2016, 33% by December 31, 2020, 40% by December 31, 2024, 45% by December 31, 2027, and 50% by December 31, 2030. SB 100 raises California's RPS requirement to 50% renewable resources target by December 31, 2026, and to achieve a 60% target by December 31, 2030. SB 100 also requires that retail sellers and local publicly owned electric utilities procure a minimum

quantity of electricity products from eligible renewable energy resources so that the total kilowatt hours (kWh) of those products sold to their retail end-use customers achieve 44% of retail sales by December 31, 2024, 52% by December 31, 2027, and 60% by December 31, 2030. In addition to targets under AB 32 and SB 32, Executive Order B-55-18 establishes a carbon neutrality goal for the state of California by 2045; and sets a goal to maintain net negative emissions thereafter. The Executive Order directs the California Natural Resources Agency (CNRA), California Environmental Protection Agency (CalEPA), the Department of Food and Agriculture (CDFA), and CARB to include sequestration targets in the Natural and Working Lands Climate Change Implementation Plan consistent with the carbon neutrality goal.

Executive Order S-3-05. Former California Governor Arnold Schwarzenegger announced on June 1, 2005, through Executive Order S-3-05, the following reduction targets for GHG emissions:

- By 2010, reduce GHG emissions to 2000 levels.
- By 2020, reduce GHG emissions to 1990 levels.
- By 2050, reduce GHG emissions to 80% below 1990 levels.

The 2050 reduction goal represents what some scientists believe is necessary to reach levels that will stabilize the climate. The 2020 goal was established to be a mid-term target. Because this is an executive order, the goals are not legally enforceable for local governments or the private sector.

Executive Order S-01-07 – Low Carbon Fuel Standard. The Governor signed Executive Order S-01-07 on January 18, 2007. The order mandates that a statewide goal shall be established to reduce the carbon intensity of California's transportation fuels by at least 10% by 2020. The CARB adopted the LCFS on April 23, 2009.

The LCFS was challenged in the U.S. District Court in Fresno in 2011. The court's ruling issued on December 29, 2011, included a preliminary injunction against CARB's implementation of the rule. The Ninth Circuit Court of Appeals stayed the injunction on April 23, 2012, pending final ruling on appeal, allowing CARB to continue to implement and enforce the regulation. The Ninth Circuit Court's decision, filed September 18, 2013, vacated the preliminary injunction. In essence, the court held that LCFS adopted by CARB were not in conflict with federal law. On August 8, 2013, the Fifth District Court of Appeal (California) ruled CARB failed to comply with CEQA and the Administrative Procedure Act (APA) when adopting regulations for LCFS. In a partially published opinion, the Court of Appeal reversed the trial court's judgment and directed issuance of a writ of mandate setting aside Resolution 09-31 and two executive orders of CARB approving LCFS regulations promulgated to reduce GHG emissions. However, the court tailored its remedy to protect the public interest by allowing the LCFS regulations to remain operative while CARB complies with the procedural requirements it failed to satisfy.

To address the Court ruling, CARB was required to bring a new LCFS regulation to the Board for consideration in February 2015. The proposed LCFS regulation was required to contain revisions to the 2010 LCFS as well as new provisions designed to foster investments in the

production of the low-carbon intensity fuels, offer additional flexibility to regulated parties, update critical technical information, simplify and streamline program operations, and enhance enforcement. On November 16, 2015 the Office of Administrative Law (OAL) approved the Final Rulemaking Package. The new LCFS regulation became effective on January 1, 2016.

In 2018, the CARB approved amendments to the regulation, which included strengthening the carbon intensity benchmarks through 2030 in compliance with the SB 32 GHG emissions reduction target for 2030. The amendments included crediting opportunities to promote zero emission vehicle adoption, alternative jet fuel, carbon capture and sequestration, and advanced technologies to achieve deep decarbonization in the transportation sector (40).

Executive Order S-13-08. Executive Order S-13-08 states that "climate change in California during the next century is expected to shift precipitation patterns, accelerate sea level rise and increase temperatures, thereby posing a serious threat to California's economy, to the health and welfare of its population and to its natural resources." Pursuant to the requirements in the Order, the 2009 California Climate Adaptation Strategy (CNRA 2009) was adopted, which is the "…first statewide, multi-sector, region-specific, and information-based climate change adaptation strategy in the United States." Objectives include analyzing risks of climate change in California, identifying and exploring strategies to adapt to climate change, and specifying a direction for future research.

Executive Order B-30-15. On April 29, 2015, Governor Edmund G. Brown Jr. issued an executive order to establish a California GHG reduction target of 40% below 1990 levels by 2030. The Governor's executive order aligns California's GHG reduction targets with those of leading international governments ahead of the United Nations Climate Change Conference in Paris late 2015. The Order sets a new interim statewide GHG emission reduction target to reduce GHG emissions to 40% below 1990 levels by 2030 in order to ensure California meets its target of reducing GHG emissions to 80% below 1990 levels by 2050 and directs CARB to update the Climate Change Scoping Plan to express the 2030 target in terms of $MMTCO_2e$. The Order also requires the state's climate adaptation plan to be updated every three years, and for the State to continue its climate change research program, among other provisions. As with Executive Order S-3-05, this Order is not legally enforceable for local governments and the private sector. Legislation that would update AB 32 to make post 2020 targets and requirements a mandate is in process in the State Legislature.

CALIFORNIA REGULATIONS AND BUILDING CODES

California has a long history of adopting regulations to improve energy efficiency in new and remodeled buildings. These regulations have kept California's energy consumption relatively flat even with rapid population growth.

Title 20 CCR. CCR, Title 20: Division 2, Chapter 4, Article 4, Sections 1601-1608: Appliance Efficiency Regulations regulates the sale of appliances in California. The Appliance Efficiency Regulations include standards for both federally regulated appliances and non-federally regulated appliances. 23 categories of appliances are included in the scope of these regulations. The standards within these regulations apply to appliances that are sold or offered

for sale in California, except those sold wholesale in California for final retail sale outside the state and those designed and sold exclusively for use in recreational vehicles or other mobile equipment (CEC 2012).

Title 24 CCR. CCR Title 24 Part 6: California's Energy Efficiency Standards for Residential and Nonresidential Buildings, was first adopted in 1978 in response to a legislative mandate to reduce California's energy consumption. The standards are updated periodically to allow consideration and possible incorporation of new energy efficient technologies and methods. Energy efficient buildings require less electricity; therefore, increased energy efficiency reduces fossil fuel consumption and decreases GHG emissions. The 2019 version of Title 24 was adopted by the CEC and became effective on January 1, 2020.

The CEC indicates that the 2019 Title 24 standards will require solar photovoltaic systems for new homes, establish requirements for newly constructed healthcare facilities, encourage demand responsive technologies for residential buildings, update indoor and outdoor lighting for nonresidential buildings. The CEC anticipates that single-family homes built with the 2019 standards will use approximately 7% less energy compared to the residential homes built under the 2016 standards. Additionally, after implementation of solar photovoltaic systems, homes built under the 2019 standards will about 53% less energy than homes built under the 2016 standards. Nonresidential buildings will use approximately 30% less energy due to lighting upgrades (41).

CCR, Title 24, Part 11: California Green Building Standards Code (CALGreen) is a comprehensive and uniform regulatory code for all residential, commercial, and school buildings that went in effect on January 1, 2011, and is administered by the California Building Standards Commission (BSC). CALGreen is updated on a regular basis, with the most recent approved update consisting of the 2019 California Green Building Code Standards that have become effective on January 1, 2020. Local jurisdictions are permitted to adopt more stringent requirements, as state law provides methods for local enhancements. CALGreen recognizes that many jurisdictions have developed existing construction and demolition ordinances and defers to them as the ruling guidance provided, they establish a minimum 65% diversion requirement. The code also provides exemptions for areas not served by construction and demolition recycling infrastructure. The State Building Code provides the minimum standard that buildings must meet in order to be certified for occupancy, which is generally enforced by the local building official. 2019 CALGreen standards are applicable to the Project and require (42):

- Short-term bicycle parking. If the new project or an additional alteration is anticipated to generate visitor traffic, provide permanently anchored bicycle racks within 200 feet of the visitors' entrance, readily visible to passers-by, for 5% of new visitor motorized vehicle parking spaces being added, with a minimum of one two-bike capacity rack (5.106.4.1.1).
- Long-term bicycle parking. For new buildings with tenant spaces that have 10 or more tenant-occupants, provide secure bicycle parking for 5% of the tenant-occupant vehicular parking spaces with a minimum of one bicycle parking facility (5.106.4.1.2).

- Designated parking. In new projects or additions to alterations that add 10 or more vehicular parking spaces, provide designated parking for any combination of low-emitting, fuel-efficient and carpool/van pool vehicles as shown in Table 5.106.5.2 (5.106.5.2).
- Construction waste management. Recycle and/or salvage for reuse a minimum of 65% of the nonhazardous construction and demolition waste in accordance with Section 5.408.1.1. 5.405.1.2, or 5.408.1.3; or meet a local construction and demolition waste management ordinance, whichever is more stringent (5.408.1).
- Excavated soil and land clearing debris. 100% of trees, stumps, rocks and associated vegetation and soils resulting primarily from land clearing shall be reused or recycled. For a phase project, such material may be stockpiled on site until the storage site is developed (5.408.3).
- Recycling by Occupants. Provide readily accessible areas that serve the entire building and are identified for the depositing, storage and collection of non-hazardous materials for recycling, including (at a minimum) paper, corrugated cardboard, glass, plastics, organic waste, and metals or meet a lawfully enacted local recycling ordinance, if more restrictive (5.410.1).
- Water conserving plumbing fixtures and fittings. Plumbing fixtures (water closets and urinals) and fittings (faucets and showerheads) shall comply with the following:
    - Water Closets. The effective flush volume of all water closets shall not exceed 1.28 gallons per flush (5.303.3.1)
    - Urinals. The effective flush volume of wall-mounted urinals shall not exceed 0.125 gallons per flush (5.303.3.2.1). The effective flush volume of floor-mounted or other urinals shall not exceed 0.5 gallons per flush (5.303.3.2.2).
    - Showerheads. Single showerheads shall have a minimum flow rate of not more than 1.8 gallons per minute and 80 psi (5.303.3.3.1). When a shower is served by more than one showerhead, the combine flow rate of all showerheads and/or other shower outlets controlled by a single valve shall not exceed 1.8 gallons per minute at 80 psi (5.303.3.3.2).
    - Faucets and fountains. Nonresidential lavatory faucets shall have a maximum flow rate of note more than 0.5 gallons per minute at 60 psi (5.303.3.4.1). Kitchen faucets shall have a maximum flow rate of not more than 1.8 gallons per minute of 60 psi (5.303.3.4.2). Wash fountains shall have a maximum flow rate of not more than 1.8 gallons per minute (5.303.3.4.3). Metering faucets shall not deliver more than 0.20 gallons per cycle (5.303.3.4.4). Metering faucets for wash fountains shall have a maximum flow rate not more than 0.20 gallons per cycle (5.303.3.4.5).
- Outdoor portable water use in landscaped areas. Nonresidential developments shall comply with a local water efficient landscape ordinance or the current California Department of Water Resources' Model Water Efficient (MWELO), whichever is more stringent (5.304.1).
- Water meters. Separate submeters or metering devices shall be installed for new buildings or additions in excess of 50,000 sf or for excess consumption where any tenant within a new building or within an addition that is project to consume more than 1,000 gal/day (5.303.1.1 and 5.303.1.2).
- Outdoor water use in rehabilitated landscape projects equal or greater than 2,500 sf. Rehabilitated landscape projects with an aggregate landscape area equal to or greater than 2,500 sf requiring a building or landscape permit (5.304.3).

- Commissioning. For new buildings 10,000 sf and over, building commissioning shall be included in the design and construction processes of the building project to verify that the building systems and components meet the owner's or owner representative's project requirements (5.410.2).

MWELO. The MWELO was required by AB 1881, the Water Conservation Act. The bill required local agencies to adopt a local landscape ordinance at least as effective in conserving water as the Model Ordinance by January 1, 2010. Governor Brown's Drought Executive Order of April 1, 2015 (Executive Order B-29-15) directed Department of Water Resources (DWR) to update the Ordinance through expedited regulation. The California Water Commission approved the revised Ordinance on July 15, 2015 effective December 15, 2015. New development projects that include landscape areas of 500 sf or more are subject to the Ordinance. The update requires:

- More efficient irrigation systems;
- Incentives for graywater usage;
- Improvements in on-site stormwater capture;
- Limiting the portion of landscapes that can be planted with high water use plants; and
- Reporting requirements for local agencies.

CARB Refrigerant Management Program. CARB adopted a regulation in 2009 to reduce refrigerant GHG emissions from stationary sources through refrigerant leak detection and monitoring, leak repair, system retirement and retrofitting, reporting and recordkeeping, and proper refrigerant cylinder use, sale, and disposal. The regulation is set forth in sections 95380 to 95398 of Title 17, CCR. The rules implementing the regulation establish a limit on statewide GHG emissions from stationary facilities with refrigeration systems with more than 50 lbs of a high GWP refrigerant. The refrigerant management program is designed to (1) reduce emissions of high-GWP GHG refrigerants from leaky stationary, non-residential refrigeration equipment; (2) reduce emissions from the installation and servicing of refrigeration and air-conditioning appliances using high-GWP refrigerants; and (3) verify GHG emission reductions.

Tractor-Trailer GHG Regulation. The tractors and trailers subject to this regulation must either use EPA SmartWay certified tractors and trailers or retrofit their existing fleet with SmartWay verified technologies. The regulation applies primarily to owners of 53-foot or longer box-type trailers, including both dry-van and refrigerated-van trailers, and owners of the HD tractors that pull them on California highways. These owners are responsible for replacing or retrofitting their affected vehicles with compliant aerodynamic technologies and low rolling resistance tires. Sleeper cab tractors model year 2011 and later must be SmartWay certified. All other tractors must use SmartWay verified low rolling resistance tires. There are also requirements for trailers to have low rolling resistance tires and aerodynamic devices.

Phase I and 2 Heavy-Duty Vehicle GHG Standards. CARB has adopted a new regulation for GHG emissions from HDTs and engines sold in California. It establishes GHG emission limits on truck and engine manufacturers and harmonizes with the EPA rule for new trucks and engines nationally. Existing HD vehicle regulations in California include engine criteria emission

standards, tractor-trailer GHG requirements to implement SmartWay strategies (i.e., the Heavy-Duty Tractor-Trailer Greenhouse Gas Regulation), and in-use fleet retrofit requirements such as the Truck and Bus Regulation. In September 2011, the EPA adopted their new rule for HDTs and engines. The EPA rule has compliance requirements for new compression and spark ignition engines, as well as trucks from Class 2b through Class 8. Compliance requirements begin with model year (MY) 2014 with stringency levels increasing through MY 2018. The rule organizes truck compliance into three groupings, which include a) HD pickups and vans; b) vocational vehicles; and c) combination tractors. The EPA rule does not regulate trailers.

CARB staff has worked jointly with the EPA and the NHTSA on the next phase of federal GHG emission standards for medium-duty trucks (MDT) and HDT vehicles, called federal Phase 2. The federal Phase 2 standards were built on the improvements in engine and vehicle efficiency required by the Phase 1 emission standards and represent a significant opportunity to achieve further GHG reductions for 2018 and later model year HDT vehicles, including trailers. But as discussed above, the EPA and NHTSA have proposed to roll back GHG and fuel economy standards for cars and light-duty trucks, which suggests a similar rollback of Phase 2 standards for MDT and HDT vehicles may be pursued.

SB 97 and the CEQA Guidelines Update. Passed in August 2007, SB 97 added Section 21083.05 to the Public Resources Code. The code states "(a) On or before July 1, 2009, the OPR shall prepare, develop, and transmit to the Resources Agency guidelines for the mitigation of GHG emissions or the effects of GHG emissions as required by this division, including, but not limited to, effects associated with transportation or energy consumption. (b) On or before January 1, 2010, the Resources Agency shall certify and adopt guidelines prepared and developed by the OPR pursuant to subdivision (a)." Section 21097 was also added to the Public Resources Code. It provided CEQA protection until January 1, 2010 for transportation projects funded by the Highway Safety, Traffic Reduction, Air Quality, and Port Security Bond Act of 2006 or projects funded by the Disaster Preparedness and Flood Prevention Bond Act of 2006, in stating that the failure to analyze adequately the effects of GHGs would not violate CEQA.

On December 28, 2018, the Natural Resources Agency announced the OAL approved the amendments to the CEQA Guidelines for implementing the CEQA. The CEQA Amendments provide guidance to public agencies regarding the analysis and mitigation of the effects of GHG emissions in CEQA documents. The CEQA Amendments fit within the existing CEQA framework by amending existing CEQA Guidelines to reference climate change.

Section 15064.3 was added the CEQA Guidelines and states that in determining the significance of a project's GHG emissions, the lead agency should focus its analysis on the reasonably foreseeable incremental contribution of the project's emissions to the effects of climate change. A project's incremental contribution may be cumulatively considerable even if it appears relatively small compared to statewide, national or global emissions. The agency's analysis should consider a timeframe that is appropriate for the project. The agency's analysis also must reasonably reflect evolving scientific knowledge and state regulatory schemes. Additionally, a lead agency may use a model or methodology to estimate GHG emissions resulting from a project. The lead agency has discretion to select the model or methodology it

considers most appropriate to enable decision makers to intelligently take into account the project's incremental contribution to climate change. The lead agency must support its selection of a model or methodology with substantial evidence. The lead agency should explain the limitations of the particular model or methodology selected for use (43).

REGIONAL

The project is within the South Coast Air Basin (SCAB), which is under the jurisdiction of the SCAQMD.

SCAQMD

SCAQMD is the agency responsible for air quality planning and regulation in the SCAB. The SCAQMD addresses the impacts to climate change of projects subject to SCAQMD permit as a lead agency if they are the only agency having discretionary approval for the project and acts as a responsible agency when a land use agency must also approve discretionary permits for the project. The SCAQMD acts as an expert commenting agency for impacts to air quality. This expertise carries over to GHG emissions, so the agency helps local land use agencies through the development of models and emission thresholds that can be used to address GHG emissions.

In 2008, SCAQMD formed a Working Group to identify GHG emissions thresholds for land use projects that could be used by local lead agencies in the SCAB. The Working Group developed several different options that are contained in the SCAQMD Draft Guidance Document – Interim CEQA GHG Significance Threshold, that could be applied by lead agencies. The working group has not provided additional guidance since release of the interim guidance in 2008. The SCAQMD Board has not approved the thresholds; however, the Guidance Document provides substantial evidence supporting the approaches to significance of GHG emissions that can be considered by the lead agency in adopting its own threshold. The current interim thresholds consist of the following tiered approach:

- Tier 1 consists of evaluating whether or not the project qualifies for any applicable exemption under CEQA.
- Tier 2 consists of determining whether the project is consistent with a GHG reduction plan. If a project is consistent with a qualifying local GHG reduction plan, it does not have significant GHG emissions.
- Tier 3 consists of screening values, which the lead agency can choose, but must be consistent with all projects within its jurisdiction. A project's construction emissions are averaged over 30 years and are added to the project's operational emissions. If a project's emissions are below one of the following screening thresholds, then the project is less than significant:
    - Residential and Commercial land use: 3,000 $MTCO_2e/yr$
    - Industrial land use: 10,000 $MTCO_2e/yr$
    - Based on land use type: residential: 3,500 $MTCO_2e/yr$; commercial: 1,400 $MTCO_2e/yr$; or mixed use: 3,000 $MTCO_2e/yr$
- Tier 4 has the following options:

  - Option 1: Reduce BAU emissions by a certain percentage; this percentage is currently undefined.
  - Option 2: Early implementation of applicable AB 32 Scoping Plan measures
  - Option 3: 2020 target for service populations (SP), which includes residents and employees: 4.8 $MTCO_2e$/SP/year for projects and 6.6 $MTCO_2e$/SP/year for plans;
  - Option 3, 2035 target: 3.0 $MTCO_2e$/SP/year for projects and 4.1 $MTCO_2e$/SP/year for plans
- Tier 5 involves mitigation offsets to achieve target significance threshold.

The SCAQMD's interim thresholds used the Executive Order S-3-05-year 2050 goal as the basis for the Tier 3 screening level. Achieving the Executive Order's objective would contribute to worldwide efforts to cap CO_2 concentrations at 450 ppm, thus stabilizing global climate.

SCAQMD only has authority over GHG emissions from development projects that include air quality permits. At this time, it is unknown if the project would include stationary sources of emissions subject to SCAQMD permits. Notwithstanding, if the Project requires a stationary permit, it would be subject to the applicable SCAQMD regulations.

SCAQMD Regulation XXVII, adopted in 2009 includes the following rules:

- Rule 2700 defines terms and post global warming potentials.
- Rule 2701, SoCal Climate Solutions Exchange, establishes a voluntary program to encourage, quantify, and certify voluntary, high quality certified GHG emission reductions in the SCAQMD.
- Rule 2702, GHG Reduction Program created a program to produce GHG emission reductions within the SCAQMD. The SCAQMD will fund projects through contracts in response to requests for proposals or purchase reductions from other parties.

2.8 THRESHOLDS OF SIGNIFICANCE

According to the CEQA Guidelines' Appendix G Environmental Checklist, to determine whether impacts from GHG emissions are significant environmental impacts, the following questions are analyzed and evaluated. Would the Project:

a) Generate GHG emissions, either directly or indirectly, that may have a significant impact on the environment?

b) Conflict with an applicable plan, policy or regulation adopted for the purpose of reducing the emissions of GHGs?

The evaluation of an impact under CEQA requires measuring data from a project against both existing conditions and a "threshold of significance." With regard to establishing a significance threshold, the Office of Planning and Research (OPR) amendments to the CEQA Guidelines Section 15064.7(c) states that "[w]hen adopting thresholds of significance, a lead agency may consider thresholds of significance previously adopted or recommended by other public agencies, or recommended by experts, provided the decision of the lead agency to adopt such thresholds is supported by substantial evidence."

CEQA Guidelines Section 15064.4(a) further states, "…A lead agency shall have discretion to determine, in the context of a particular project, whether to: (1) Use a model or methodology to quantify GHG emissions resulting from a project, and which model or methodology to use …; or (2) Rely on a qualitative analysis or performance based standards."

CEQA Guidelines Section 15064.4 provides that a lead agency may take into account the following three considerations in assessing the significance of impacts from GHG emissions:

- **Consideration #1**: The extent to which the project may increase or reduce GHG emissions as compared to the existing environmental setting.
- **Consideration #2**: Whether the project emissions exceed a threshold of significance that the lead agency determines applies to the project.
- **Consideration #3**: The extent to which the project complies with regulations or requirements adopted to implement a statewide, regional, or local plan for the reduction or mitigation of GHG emissions. Such regulations or requirements must be adopted by the relevant public agency through a public review process and must reduce or mitigate the project's incremental contribution of GHG emissions. If there is substantial evidence that the possible effects of a particular project are still cumulatively considerable notwithstanding compliance with the adopted regulations or requirements, an Environmental Impact Report (EIR) must be prepared for the project.

Center for Biological Diversity v. California Department of Fish and Wildlife (Newhall Ranch)

On November 30, 2015, the California Supreme Court (CA Court) published its Opinion in Newhall Ranch, which invalidated the GHG analysis for a large master planned residential development in Los Angeles County consisting of over 20,000 residential dwelling units and other uses. The CA Court determined that the GHG significance finding was "not supported by a reasoned explanation based on substantial evidence." However, the CA Court upheld: (1) use of the statewide emissions reduction goal in AB 32 as a significance criterion (pp. 15-19), (2) use of the Scoping Plan's BAU model "as a comparative tool for evaluating efficiency and conservation efforts" of the Project (pp. 18-19), and (3) a comparison of the project's expected emissions to a BAU model rather than a baseline of pre-project conditions (pp. 15-19).

The CA Court invalidated the GHG analysis because the "administrative record discloses no substantial evidence that the Newhall Ranch's project-level reduction of 31% in comparison to [BAU] is consistent with achieving AB 32's statewide goal of a 29% reduction from [BAU]…." (p.19, original italics; see also p. 23 ("Nor is Justice Corrigan correct that our analysis 'assumes project-level reduction GHG emissions must be greater than the reduction California is seeking to achieve statewide.' [internal citations omitted] …[W]e only hold that DFW erred in failing to substantiate its assumption that the Scoping Plan's statewide measure of emissions reduction can also serve as the criterion for an individual land use project.")

In so doing, the CA Court questioned whether "a greater degree of reduction may be needed" from new versus existing development to achieve the statewide goal set forth in AB 32. (p. 20.) The CA Court also stated that the EIR failed to contain sufficient evidence to conclude that the "land use density" assumptions used in the EIR's GHG emissions model relate to the land use density assumptions used in the Scoping Plan's BAU model (p. 21-22.). Because this

information was not contained in the Newhall Ranch EIR, the CA Court determined that the record did not contain substantial evidence supporting the findings.

The CA Court outlined "potential pathways to compliance" that future EIRs could use to determine if GHG emissions from a given project are significant. Specifically, the CA Court advised that:

- **Substantiation of Project Reductions from BAU**. A lead agency may use a BAU comparison based on the Scoping Plan's methodology if it also substantiates the reduction a particular project must achieve to comply with statewide goals. The Court suggested a lead agency could examine the "data behind the Scoping Plan's business-as-usual model" to determine the necessary project-level reductions from new land use development at the proposed location. (p. 25.)
- **Compliance with Regulatory Programs or Performance Based Standards**. A lead agency "might assess consistency with AB 32's goal in whole or part by looking to compliance with regulatory programs designed to reduce GHG emissions from particular activities (see Final Statement of Reasons, supra, at p. 64 [GHG emissions 'may be best analyzed and mitigated at a programmatic level.'].) To the extent a project's design features comply with or exceed the regulations outlined in the Scoping Plan and adopted by the Air Resources Board or other state agencies, a lead agency could appropriately rely on their use as showing compliance with 'performance based standards' adopted to fulfill 'a statewide . . . plan for the reduction or mitigation of GHG as emissions.' (CEQA Guidelines § 15064.4(a)(2), (b)(3); see also id., § 15064(h)(3) [determination that impact is not cumulatively considerable may rest on compliance with previously adopted plans or regulations, including 'plans or regulations for the reduction of GHG emissions'].) "(p. 25.)
- **Compliance with GHG Reduction Plans or Climate Action Plans (CAPs)**. A lead agency may utilize "geographically specific GHG emission reduction plans" such as CAPs or GHG emission reduction plans to provide a basis for the tiering or streamlining of project-level CEQA analysis. (p. 26.)
- **Compliance with Local Air District Thresholds**. A lead agency may rely on "existing numerical thresholds of significance for GHG emissions" adopted by, for example, local air districts. (p. 27.)

Therefore, consistent with CEQA Guidelines Appendix G, the three factors identified in CEQA Guidelines Section 15064.4 and the Newhall Ranch opinion, the following thresholds are considered in determining the significance of impacts from GHG.

Would the project generate direct or indirect GHG emissions that would result in a significant impact on the environment (see Impact GHG-1)?

The City of Fontana has not adopted its own numeric threshold of significance for determining impacts with respect to GHG emissions. The SCAQMD's adopted numerical threshold of 10,000 $MTCO_2e$/yr for industrial stationary source emissions is typically selected as the significance criterion. However, the City has determined that the SCAQMD's draft threshold of 3,000 $MTCO_2e$/yr is more conservative and appropriate for industrial and warehouse land use development projects. The 3,000 $MTCO_2e$ threshold is based on the SCAQMD staff's proposed

GHG screening threshold for stationary source emissions for non-industrial projects, as described in the SCAQMD's Interim CEQA GHG Significance Threshold for Stationary Sources, Rules and Plans (SCAQMD Interim GHG Threshold). The SCAQMD Interim GHG Threshold identifies a screening threshold to determine whether additional analysis is required. This threshold is also consistent with the SCAQMD's draft interim threshold Tier 3.

Would the project conflict with the ARB Scoping Plan and regulations adopted for the purpose of reducing emissions of GHGs (see Impact GHG-2)?

Analysis under Impact GHG-2 involves a qualitative analysis of the Project's consistency with the ARB's Scoping Plan and with GHG emission reducing regulations. The Scoping Plan (and its adopted regulations) are considered a statewide plan, policy, or regulation adopted by a public agency to reduce GHG emissions that may be used to assess consistency with AB 32.

The City has further determined that each one of the above thresholds are considered to be a separate and independent basis upon which to substantiate the significance of a Project's GHG impact.

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3 PROJECT GREENHOUSE GAS IMPACT

3.1 INTRODUCTION

The Project has been evaluated to determine if it will result in a significant GHG impact. The significance of these potential impacts is described in the following section.

3.2 STANDARDS OF SIGNIFICANCE

The criteria used to determine the significance of potential Project-related GHG impacts are taken from the Initial Study Checklist in Appendix G of the State CEQA Guidelines (14 California Code of Regulations §§15000, et seq.). Based on these thresholds, a project would result in a significant impact related to GHG if it would (1):

- Generate GHG emissions, either directly or indirectly, that may have a significant impact on the environment?
- Conflict with an applicable plan, policy or regulation adopted for the purpose of reducing the emissions of GHGs?

3.3 CALIFORNIA EMISSIONS ESTIMATOR MODEL™ EMPLOYED TO ANALYZE GHG EMISSIONS

On October 17, 2017, the SCAQMD, in conjunction with the California Air Pollution Control Officers Association (CAPCOA) and other California air districts, released the latest version of the California Emissions Estimator Model (CalEEMod) Version 2016.3.2. The purpose of this model is to calculate construction-source and operational-source criteria pollutant (VOCs, NO_X, SO_X, CO, PM_{10}, and $PM_{2.5}$) and GHG emissions from direct and indirect sources; and quantify applicable air quality and GHG reductions achieved from mitigation measures (44). Accordingly, the latest version of CalEEMod has been used for this Project to determine GHG emissions. Output from the model runs for construction and operational activity are provided in Appendices 3.1 through 3.3. CalEEMod includes GHG emissions from the following source categories: construction, area, energy, mobile, waste, water.

3.3.1 EMFAC2017 EMISSION RATES

On August 19, 2019, the EPA approved the 2017 version of the EMissions FACtor model (EMFAC) web database for use in SIP and transportation conformity analyses. EMFAC2017 is a mathematical model that was developed to calculate emission rates, fuel consumption, vehicle miles traveled (VMT) from motor vehicles that operate on highways, freeways, and local roads in California and is commonly used by the CARB to project changes in future emissions from on-road mobile sources (45). This GHGA utilizes annual EMFAC2017 emission factors in order to derive vehicle emissions associated with Project operational activities.

Because the EMFAC2017 emission rates are associated with vehicle fuel types while CalEEMod vehicle emission factors are aggregated to include all fuel types for each individual vehicle class, the EMFAC2017 emission rates for different fuel types of a vehicle class are averaged by activity or by population and activity to derive CalEEMod emission factors. The equations applied to

obtain CalEEMod vehicle emission factors for each emission type are detailed in CalEEMod User's Guide *Appendix A: Calculation Details for CalEEMod* (46).

3.4 CONSTRUCTION AND OPERATIONAL LIFE-CYCLE ANALYSIS NOT REQUIRED

A full life-cycle analysis (LCA) for construction and operational activity is not included in this analysis due to the lack of consensus guidance on LCA methodology at this time (47). Life-cycle analysis (i.e., assessing economy-wide GHG emissions from the processes in manufacturing and transporting all raw materials used in the project development, infrastructure and on-going operations) depends on emission factors or econometric factors that are not well established for all processes. At this time a LCA would be extremely speculative and thus has not been prepared.

Additionally, the SCAQMD recommends analyzing direct and indirect project GHG emissions generated within California and not life-cycle emissions because the life-cycle effects from a project could occur outside of California, might not be very well understood or documented, and would be challenging to mitigate (48). Additionally, the science to calculate life cycle emissions is not yet established or well defined, therefore SCAQMD has not recommended, and is not requiring, life-cycle emissions analysis.

3.5 CONSTRUCTION EMISSIONS

Construction activities associated with the Project would result in emissions of CO_2 and CH_4 from construction activities. The report *Fontana Foothill Commerce Center Air Quality Impact Analysis Report* (AQIA) (Urban Crossroads, Inc.) contains detailed information regarding construction activity (49). As discussed in the AQIA, Construction related emissions are expected from the following construction activities:

- Demolition
- Site Preparation
- Grading
- Building Construction
- Paving
- Architectural Coating

3.5.1 CONSTRUCTION DURATION

Construction is expected to commence in June 2021 and will last through June 2022. The construction schedule utilized in the analysis, shown in Table 3-2, represents a "worst-case" analysis scenario should construction occur any time after the respective dates since emission factors for construction decrease as time passes and the analysis year increases due to emission regulations becoming more stringent.[4] The duration of construction activity and associated

[4] As shown in the CalEEMod User's Guide Version 2016.3.2, Section 4.3 "OFFROAD Equipment" as the analysis year increases, emission factors for the same equipment pieces decrease due to the natural turnover of older equipment being replaced by newer less polluting equipment and new regulatory requirements.

equipment represents a reasonable approximation of the expected construction fleet as required per CEQA Guidelines (50). The duration of construction activity was based on information provided by the Project Applicant and the 2022 opening year.

TABLE 3-1: CONSTRUCTION DURATION

Phase Name	Start Date	End Date	Days
Demolition	06/01/2021	07/12/2021	30
Site Preparation	07/13/2021	08/09/2021	20
Grading	08/10/2021	10/11/2021	45
Building Construction	10/12/2021	06/20/2022	180
Paving	05/03/2022	06/20/2022	35
Architectural Coating	03/15/2022	06/20/2022	70

Source: Construction activity based on the 2022 Opening Year.

3.5.2 CONSTRUCTION EQUIPMENT

Site specific construction fleet may vary due to specific project needs at the time of construction. The associated construction equipment was generally based on CalEEMod defaults, and the Project applicant has confirmed that the equipment list is reasonable for the Project's construction. A detailed summary of construction equipment assumptions by phase is provided at Table 3-2. Please refer to specific detailed modeling inputs/outputs contained in Appendix 3.1 of this GHGA.

TABLE 3-2: CONSTRUCTION EQUIPMENT ASSUMPTIONS (1 OF 2)

Activity	Equipment	Amount	Hours Per Day
Demolition	Concrete/Industrial Saws	1	8
	Excavators	3	8
	Rubber Tired Dozers	2	8
Site Preparation	Crawler Tractors	4	8
	Rubber Tired Dozers	3	8
Grading	Crawler Tractors	2	8
	Excavators	2	8
	Graders	1	8
	Rubber Tired Dozers	1	8
	Scrapers	2	8

TABLE 3-2: CONSTRUCTION EQUIPMENT ASSUMPTIONS (2 OF 2)

Activity	Equipment	Amount	Hours Per Day
Building Construction	Cranes	1	8
	Crawler Tractors	3	8
	Forklifts	3	8
	Generator Sets	1	8
	Welders	1	8
Paving	Pavers	2	8
	Paving Equipment	2	8
	Rollers	2	8
Architectural Coating	Air Compressors	1	8

3.5.3 CONSTRUCTION EMISSIONS SUMMARY

For construction phase Project emissions, GHGs are quantified and amortized over the life of the Project. To amortize the emissions over the life of the Project, the SCAQMD recommends calculating the total GHG emissions for the construction activities, dividing it by a 30-year project life then adding that number to the annual operational phase GHG emissions (51). As such, construction emissions were amortized over a 30-year period and added to the annual operational phase GHG emissions. The amortized construction emissions are presented in Table 3-3.

TABLE 3-3: AMORTIZED ANNUAL CONSTRUCTION EMISSIONS

Year	Emissions (MT/yr)			
	CO_2	CH_4	N_2O	Total CO_2e
2021	707.96	0.12	0.00	711.04
2022	1,004.73	0.11	0.00	1,007.40
Total Annual Construction Emissions	1,712.69	0.23	0.00	1,718.45
Amortized Construction Emissions ($MTCO_2e$)	**57.09**	**0.01**	**0.00**	**57.28**

Source: CalEEMod constructions emissions are presented in Appendix 3.1.

3.6 OPERATIONAL EMISSIONS

Operational activities associated with the proposed Project will result in emissions of CO_2, CH_4, and N_2O from the following primary sources:

- Area Source Emissions
- Energy Source Emissions
- Mobile Source Emissions
- On-site Cargo Handling Equipment Emissions

- Water Supply, Treatment, and Distribution
- Solid Waste

3.6.1 AREA SOURCE EMISSIONS

Landscape Maintenance Equipment

Landscape maintenance equipment would generate emissions from fuel combustion and evaporation of unburned fuel. Equipment in this category would include lawnmowers, shedders/grinders, blowers, trimmers, chain saws, and hedge trimmers used to maintain the landscaping of the Project. The emissions associated with landscape maintenance equipment were calculated based on assumptions provided in CalEEMod.

3.6.2 ENERGY SOURCE EMISSIONS

Combustion Emissions Associated with Natural Gas and Electricity

Electricity and natural gas are used by almost every project. Criteria pollutant emissions are emitted through the generation of electricity and consumption of natural gas. However, because electrical generating facilities for the Project area are located either outside the region (state) or offset through the use of pollution credits (RECLAIM) for generation within the SCAB, criteria pollutant emissions from offsite generation of electricity is generally excluded from the evaluation of significance and only natural gas use is considered. The emissions associated with natural gas use were calculated using CalEEMod.

Title 24 Energy Efficiency Standards

California's Energy Efficiency Standards for Residential and Nonresidential Buildings was first adopted in 1978 in response to a legislative mandate to reduce California's energy consumption. The standards are updated periodically to allow consideration and possible incorporation of new energy efficient technologies and methods. Energy efficient buildings require less electricity. The 2019 version of Title 24 was adopted by the CEC and became effective on January 1, 2020.

3.6.3 MOBILE SOURCE EMISSIONS

The Project-related operational GHG impacts are derived primarily from vehicle trips generated by the Project. Trip characteristics available from the TIA were utilized in this analysis (12).

3.6.3.1 Trip Lengths

Background

A technical deficiency inherent in calculating the projected vehicle emissions associated with any project is related to the estimation of trip length and VMT. VMT for a given project is calculated by the total number of vehicle trips to/from the Project are multiplied by the average trip length (52). This method of estimating VMT for use in calculating vehicle emissions likely results in the over-estimation and double-counting of emissions because, for a distribution warehouse center such as the Project, the land use is likely to attract (divert)

existing vehicle trips that are already on the circulation system as opposed to generating new trips. In this regard, the Project would, to a large extent, redistribute existing mobile-source emissions rather than generate additional emissions within the SCAB. As such, the estimation of the Fontana Foothill Commerce Center Project's vehicular-source emissions are likely overstated in that no credit for, or reduction in, emissions is assumed based on diversion of existing trips.

Approach for Analysis of the Project

Trip lengths for passenger cars and trucks were determined based on the regional traffic model. The San Bernardino Transportation Analysis Model (SBTAM) was used to estimate trip lengths for the Project's passenger cars and trucks.

More specifically, SBTAM was utilized to conduct select zone model runs for the proposed Project. SBTAM was prepared for the San Bernardino County Transportation Authority (formerly known as San Bernardino Association of Governments) as a sub-regional model based on Southern California Association of Governments (SCAG) model, which includes the entire SCAG region. Adjustments were made to the socio-economic data within the SBTAM (2040) traffic analysis zone (TAZ) where the Project is located to reflect the Project land use.

The VMT from/to the Project TAZ by vehicle type was calculated based on select zone model skims. The average trip length was calculated based on the model VMT and daily traffic flow by vehicle type. Based on the model runs, the average trip length for trucks was calculated to be 36 miles and the trip length for all other vehicles (passenger cars, small trucks, motorcycles, etc.) was calculated to be 14 miles.

The use of a travel demand model is supported by substantial evidence since the information contained in the model is specific to the region and for the land use type being proposed. Furthermore, the use of travel demand models is also a recommended practice that is being promoted by the Governor's OPR in their updated CEQA Guidelines with respect to SB 743. Specifically, the latest technical advisory documentation published by OPR (December 2018 see Page 30-31) (53) explicitly states that:

> *"…agencies can use travel demand models or survey data to estimate existing trip lengths and input those into sketch models such as CalEEMod to achieve more accurate results. Whenever possible, agencies should input localized trip lengths into a sketch model to tailor the analysis to the project location."*

The procedure described by OPR in their SB 743 technical advisory is precisely the method that has been used to calculate trip lengths and consequently VMT for the Project.

3.6.3.2 Approach for Analysis of the Project

Two Separate model runs were utilized for each phase in order to more accurately model emissions resulting from passenger car and truck operations.

Passenger Cars

The first run analyzed passenger car emissions, incorporated the SBTAM trip length of 14 miles for passenger cars and an assumption of 100% primary trips. It should be noted that though the TIA does not breakdown passenger cars by type, this analysis assumes that passenger cars include Light-Duty-Auto vehicles (LDA), Light-Duty-Trucks (LDT1[5] & LDT2[6]), and Medium-Duty-Vehicles (MDV) vehicle types. In order to account for emissions generated by passenger cars, the fleet mix presented in Table 3-4 was utilized in this analysis.

TABLE 3-4: PASSENGER CAR FLEET MIX

Land Use	Vehicle Type	%
High-Cube Short-Term Warehouse without Cold Storage	LDA	62.42
	LDT1	4.11
	LDT2	20.35
	MDV	13.12

Note: The Project-specific passenger car fleet mix used in this analysis is based on a proportional split utilizing the default CalEEMod percentages assigned to LDA, LDT1, LDT2, and MDV vehicles types.

Trucks

The second run analyzed truck emissions, incorporated the weighted truck trip length of 36 miles and an assumption of 100% primary trips. For purposes of analysis, the truck trip length is based on the SBTAM average trip lengths of Light-Heavy-Duty Trucks (LHDT), Medium-Heavy-Duty Trucks (MHDT), and Heavy-Heavy-Duty Trucks (HHDT). In order to be consistent with the TIA, trucks are broken down by truck type: 2-axle (LHDT), 3-axle (MHDT), and 4+-axle (HHDT). In order to account for emissions generated by trucks, the fleet mix presented in Table 3-5 was utilized in this analysis.

TABLE 3-5: TRUCK FLEET MIX

Land Use	Vehicle Type	%
High-Cube Short-Term Warehouse without Cold Storage	LHDT	16.72
	MHDT	20.72
	HHDT	62.56

Note: Project-specific truck fleet mix is based on the number of trips generated by each truck type (LHDT, MHDT, and HHDT) relative to the total number of truck trips.

3.6.4 ON-SITE CARGO HANDLING EQUIPMENT EMISSIONS

It is common for industrial warehouse buildings to require cargo handling equipment to move empty containers and empty chassis to and from the various pieces of cargo handling

[5] Vehicles under the LDT1 category have a gross vehicle weight rating (GVWR) of less than 6,000 lbs. and equivalent test weight (ETW) of less than or equal to 3,750 lbs.

[6] Vehicles under the LDT2 category have a GVWR of less than 6,000 lbs. and ETW between 3,751 lbs. and 5,750 lbs.

equipment that receive and distribute containers. The most common type of cargo handling equipment is the yard truck which is designed for moving cargo containers. Yard trucks are also known as yard goats, utility tractors (UTRs), hustlers, yard hostlers, and yard tractors. The cargo handling equipment is assumed to have a horsepower (hp) range of approximately 175 hp to 200 hp. Based on the latest available information from SCAQMD (54); for example, high-cube warehouse projects typically have 3.6 yard trucks per million sf of building space. For this particular Project, based on the maximum square footage of building space permitted by the proposed Project, on-site modeled operational equipment includes two (2) 200 hp, compressed natural gas-powered yard tractors operating at 4 hours a day for 365 days of the year**.**

3.6.5 WATER SUPPLY, TREATMENT AND DISTRIBUTION

Indirect GHG emissions result from the production of electricity used to convey, treat and distribute water and wastewater. The amount of electricity required to convey, treat and distribute water depends on the volume of water as well as the sources of the water. CalEEMod default parameters were used to estimate GHG emissions associated with water supply, treatment and distribution for the Project scenario.

3.6.6 SOLID WASTE

Industrial land uses will result in the generation and disposal of solid waste. A large percentage of this waste will be diverted from landfills by a variety of means, such as reducing the amount of waste generated, recycling, and/or composting. The remainder of the waste not diverted will be disposed of at a landfill. GHG emissions from landfills are associated with the anaerobic breakdown of material. GHG emissions associated with the disposal of solid waste associated with the proposed Project were calculated by CalEEMod using default parameters.

3.7 EMISSIONS SUMMARY

The annual GHG emissions associated with the operation of the proposed Project are estimated to be 7,887.10 $MTCO_2e$/yr as summarized in Table 3-6.

TABLE 3-6: PROJECT GHG EMISSIONS

Emission Source	Emissions (MT/yr)			
	CO_2	CH_4	N_2O	Total CO_2e
Annual construction-related emissions amortized over 30 years	57.09	0.01	0.00	57.28
Area Source	0.04	1.10E-04	0.00	0.05
Energy Source	532.29	0.02	5.11E-03	534.33
Mobile Source (Passenger Car)	988.75	0.03	0.00	989.40
Mobile Source (Truck)	4,827.91	0.16	0.00	4,831.96
On-Site Equipment	152.38	0.05	0.00	153.61
Waste	143.95	8.51	0.00	356.63
Water Usage	779.13	5.71	0.14	963.84
Total CO_2e (All Sources)	**7,887.10**			

Source: CalEEMod operational emissions are presented in Appendices 3.2 and 3.3.

3.8 GREENHOUSE GAS EMISSIONS FINDINGS AND RECOMMENDATIONS

GHG Impact #1: The Project would generate direct or indirect GHG emission that would result in a significant impact on the environment.

A numerical threshold for determining the significance of GHG emissions in the SCAB has not been established by the SCAQMD for Projects where it is not the lead agency. As an interim threshold based on guidance provided in the CAPCOA *CEQA and Climate Change* handbook, the City has opted to use a non-zero threshold approach based on Approach 2 of the handbook. Threshold 2.5 (Unit-Based Thresholds Based on Market Capture) establishes a numerical threshold based on capture of approximately 90 percent of emissions from future development. The latest threshold developed by SCAQMD using this method is 3,000 $MTCO_2e$/yr for all projects (55).

The Project will result in approximately 2,065.74 $MTCO_2e$/yr from construction, area, energy, waste, and water usage. In addition, the Project has the potential to result in an additional 5,821.36 $MTCO_2e$/yr from mobile sources if the assumption is made that all of the vehicle trips to and from the Project are "new" trips resulting from the development of the Project. As shown on Table 3-6, the Project has the potential to generate a total of approximately 7,887.10 $MTCO_2e$/yr. As such, the Project would exceed the SCAQMD's recommended numeric threshold of 3,000 $MTCO_2e$ if it were applied. Thus, the Project has the potential to result in a cumulatively considerable impact with respect to GHG emissions.

GHG Impact #2: The Project would not conflict with any applicable plan, policy or regulation of an agency adopted for the purpose of reducing the emissions of GHGs.

As previously stated, pursuant to 15604.4 of the CEQA Guidelines, a lead agency may rely on qualitative analysis or performance-based standards to determine the significance of impacts

from GHG emissions (43). As such, the Project's consistency with AB 32 and SB 32 are discussed below.

Consistency with AB 32 (2008 Scoping Plan)

ARB's *Scoping Plan* identifies strategies to reduce California's GHG emissions in support of AB32 which requires the State to reduce its GHG emissions to 1990 levels by 2020. Many of the strategies identified in the Scoping Plan are not applicable at the project level, such as long-term technological improvements to reduce emissions from vehicles. Some measures are applicable and supported by the project, such as energy efficiency. Finally, while some measures are not directly applicable, the project would not conflict with their implementation. Reduction measures are grouped into 18 action categories, as follows:

1. **California Cap-and-Trade Program Linked to Western Climate Initiative Partner Jurisdictions.** Implement a broad-based California cap-and-trade program to provide a firm limit on emissions. Link the California cap–and-trade program with other Western Climate Initiative Partner programs to create a regional market system to achieve greater environmental and economic benefits for California.[7] Ensure California's program meets all applicable AB 32 requirements for market-based mechanisms.
2. **California Light-Duty Vehicle GHG Standards.** Implement adopted Pavley standards and planned second phase of the program. Align zero-emission vehicle, alternative and renewable fuel and vehicle technology programs with long-term climate change goals.
3. **Energy Efficiency.** Maximize energy efficiency building and appliance standards, and pursue additional efficiency efforts including new technologies, and new policy and implementation mechanisms. Pursue comparable investment in energy efficiency from all retail providers of electricity in California (including both investor-owned and publicly owned utilities).
4. **Renewables Portfolio Standards.** Achieve 33% renewable energy mix statewide.
5. **LCFS.** Develop and adopt the Low Carbon Fuel Standard.
6. **Regional Transportation-Related GHG Targets.** Develop regional GHG emissions reduction targets for passenger vehicles.
7. **Vehicle Efficiency Measures.** Implement light-duty vehicle efficiency measures.
8. **Goods Movement.** Implement adopted regulations for the use of shore power for ships at berth. Improve efficiency in goods movement activities.
9. **Million Solar Roofs Program.** Install 3,000 MWs of solar-electric capacity under California's existing solar programs.
10. **MDT and HDT Vehicles.** Adopt MDT and HDT vehicle efficiencies. Aerodynamic efficiency measures for HD trucks pulling trailers 53-feet or longer that include improvements in trailer aerodynamics and use of rolling resistance tires were adopted in 2008 and went into effect in 2010.[8] Future, yet to be determined improvements, includes hybridization of MD and HD trucks.

[7] California Air Resources Board. California GHG Emissions – Forecast (2002-2020). October 2010
[8] California Air Resources Board. Scoping Plan Measures Implementation Timeline. October 2010

11. **Industrial Emissions.** Require assessment of large industrial sources to determine whether individual sources within a facility can cost-effectively reduce GHG emissions and provide other pollution reduction co-benefits. Reduce GHG emissions from fugitive emissions from oil and gas extraction and gas transmission. Adopt and implement regulations to control fugitive methane emissions and reduce flaring at refineries.
12. **High Speed Rail.** Support implementation of a high-speed rail system.
13. **Green Building Strategy.** Expand the use of green building practices to reduce the carbon footprint of California's new and existing inventory of buildings.
14. **High Global Warming Potential Gases.** Adopt measures to reduce high warming global potential gases.
15. **Recycling and Waste.** Reduce methane emissions at landfills. Increase waste diversion, composting and other beneficial uses of organic materials, and mandate commercial recycling. Move toward zero-waste.
16. **Sustainable Forests.** Preserve forest sequestration and encourage the use of forest biomass for sustainable energy generation. The 2020 target for carbon sequestration is 5 million $MTCO_2e$/yr.
17. **Water.** Continue efficiency programs and use cleaner energy sources to move and treat water.
18. **Agriculture.** In the near-term, encourage investment in manure digesters and at the five-year Scoping Plan update determine if the program should be made mandatory by 2020.

Table 3-7 summarizes the project's consistency with the State Scoping Plan. As summarized, the project will not conflict with any of the provisions of the Scoping Plan and in fact supports seven of the action categories through energy efficiency, water conservation, recycling, and landscaping.

TABLE 3-7: 2008 SCOPING PLAN CONSISTENCY SUMMARY

Action	Supporting Measures[9]	Consistency
Cap-and-Trade Program	--	Not applicable. These programs involve capping emissions from electricity generation, industrial facilities, and broad scoped fuels. Caps do not directly affect commercial projects.
Light-Duty Vehicle Standards	T-1	Not applicable. While these are CARB-enforced measures that are not directly applicable to the proposed Project, vehicles that access the Project are required to comply with the standards and will comply with this strategy. EV charging stations are required to be installed on site per the 2019 Title 24 standards.
Energy Efficiency	E-1	Consistent. The Project will include a variety of building, water, and solid waste efficiencies consistent with the most
	E-2	
	CR-1	

[9] Supporting measures can be found at the following link: http://www.arb.ca.gov/cc/scopingplan/2013_update/appendix_b.pdf

Action	Supporting Measures[9]	Consistency
	CR-2	current CALGreen requirements.
Renewables Portfolio Standard	E-3	Not applicable. Establishes the minimum statewide renewable energy mix.
Low Carbon Fuel Standard	T-2	Not applicable. Establishes reduced carbon intensity of transportation fuels.
Regional Transportation-Related GHG Targets	T-3	Not applicable. This is a statewide measure and is not within the purview of this Project.
Vehicle Efficiency Measures	T-4	Not applicable. Identifies measures such as minimum tire-fuel efficiency, lower friction oil, and reduction in air conditioning use.
Goods Movement	T-5	Not applicable. Identifies measures to improve goods movement efficiencies such as advanced combustion strategies, friction reduction, waste heat recovery, and electrification of accessories. While these measures are not directly applicable to the Project, any commercial activity associated with Goods Movement would be required to comply with these measures as adopted. As such, the proposed Project would not interfere with their implementation.
	T-6	
Million Solar Roofs (MSR) Program	E-4	Consistent. The MSR program sets a goal for use of solar systems throughout the state as a whole. While the Project currently does not include solar energy generation, the building roof structure will be designed to support solar panels in the future, consistent with Title 24 requirements.
MDT & HDT Vehicles	T-7	Not applicable. MDT and HDT vehicles and trailers for industrial uses would be subject to aerodynamic and hybridization requirements as established by CARB; the proposed Project would interfere with implementation of these requirements and programs.
	T-8	
Industrial Emissions	I-1	Not applicable. These measures are applicable to large industrial facilities (> 500,000 $MTCO_2e$/yr) and other intensive uses such as refineries.
	I-2	
	I-3	
	I-4	
	I-5	
High Speed Rail	T-9	Not applicable. Supports increased mobility choice.

Action	Supporting Measures[9]	Consistency
Green Building Strategy	GB-1	Consistent. The Project will include a variety of building, water, and solid waste efficiencies consistent with the current CALGreen requirements.
High GWP Gases	H-1	Not applicable. The proposed Project is not a substantial source of high GWP emissions and will comply with any future changes in air conditioning, fire protection suppressant, and other requirements.
	H-2	
	H-3	
	H-4	
	H-5	
	H-6	
	H-7	
Recycling and Waste	RW-1	Consistent. The Project will be required recycle a minimum of 65% from construction activities and Project operations per State and City requirements.
	RW-2	
	RW-3	
Sustainable Forests	F-1	Consistent. The Project will increase carbon sequestration by increasing on-site trees per the project landscaping plan.
Water	W-1	Consistent. The Project will include use of low-flow fixtures and efficient landscaping per State requirements.
	W-2	
	W-3	
	W-4	
	W-5	
	W-6	
Agriculture	A-1	Not applicable. The Project is not an agricultural use.

Consistency with SB 32 (2017 Scoping Plan Update)

The 2017 Scoping Plan Update reflects the 2030 target of a 40% reduction below 1990 levels, set by Executive Order B-30-15 and codified by SB 32. Table 3-8 summarizes the project's consistency with the 2017 Scoping Plan. As summarized, the project will not conflict with any of the provisions of the Scoping Plan and in fact supports seven of the action categories.

TABLE 3-8: 2017 SCOPING PLAN CONSISTENCY SUMMARY[10]

Action	Responsible Parties	Consistency
Implement SB 350 by 2030		
Increase the Renewables Portfolio Standard to 50% of retail sales by 2030 and ensure grid reliability.	CPUC, CEC, CARB	Consistent. The Project would use energy from Southern California Edison (SCE). SCE has committed to diversify its portfolio of energy sources by increasing energy from wind and solar sources. The Project would not interfere with or obstruct SCE energy source diversification efforts.

[10] Measures can be found at the following link: https://www.arb.ca.gov/cc/scopingplan/scoping_plan_2017.pdf

Action	Responsible Parties	Consistency
Establish annual targets for statewide energy efficiency savings and demand reduction that will achieve a cumulative doubling of statewide energy efficiency savings in electricity and natural gas end uses by 2030.		Consistent. The Project would be designed and constructed to implement the energy efficiency measures for new commercial developments designed to reduce energy consumption. The Project would not interfere with or obstruct policies or strategies to establish annual targets for statewide energy efficiency savings and demand reduction.
Reduce GHG emissions in the electricity sector through the implementation of the above measures and other actions as modeled in Integrated Resource Planning (IRP) to meet GHG emissions reductions planning targets in the IRP process. Load-serving entities and publicly- owned utilities meet GHG emissions reductions planning targets through a combination of measures as described in IRPs.		Consistent. The proposed Project would be designed and constructed consistent with existing regulations aimed at reducing energy consumption.
Implement Mobile Source Strategy (Cleaner Technology and Fuels)		
At least 1.5 million zero emission and plug-in hybrid light-duty EV by 2025.	CARB, California State Transportation Agency (CalSTA), Strategic Growth Council (SGC), California Department of Transportation (Caltrans), CEC, OPR, Local Agencies	Consistent. This is a CARB Mobile Source Strategy. The Project would not obstruct or interfere with CARB zero emission and plug-in hybrid light-duty EV 2025 targets.
At least 4.2 million zero emission and plug-in hybrid light-duty EV by 2030.		Consistent. This is a CARB Mobile Source Strategy. The Project would not obstruct or interfere with CARB zero emission and plug-in hybrid light-duty EV 2030 targets.
Further increase GHG stringency on all light-duty vehicles beyond existing Advanced Clean cars regulations.		Consistent. This is a CARB Mobile Source Strategy. The Project would not obstruct or interfere with CARB efforts to further increase GHG stringency on all light-duty vehicles beyond existing Advanced Clean cars regulations.
Medium- and Heavy-Duty GHG Phase 2.		Consistent. This is a CARB Mobile Source Strategy. The Project would not obstruct or interfere with CARB efforts to implement Medium- and Heavy-Duty GHG Phase 2
Innovative Clean Transit: Transition to a suite of to-be-determined innovative clean transit options. Assumed 20% of new urban buses purchased beginning in 2018 will be zero emission buses with the penetration of zero-emission technology ramped up to 100% of new sales in 2030. Also, new natural gas buses, starting in 2018, and diesel buses, starting in 2020, meet the optional heavy-duty low-NO_X standard.		Consistent. This is a CARB Mobile Source Strategy. The Project would not obstruct or interfere with CARB efforts improve transit-source emissions.

Action	Responsible Parties	Consistency
Last Mile Delivery: New regulation that would result in the use of low NO_X or cleaner engines and the deployment of increasing numbers of zero-emission trucks primarily for class 3-7 last mile delivery trucks in California. This measure assumes ZEVs comprise 2.5% of new Class 3–7 truck sales in local fleets starting in 2020, increasing to 10% in 2025 and remaining flat through 2030.		Consistent. This is a CARB Mobile Source Strategy. The Project would not obstruct or interfere with CARB efforts to improve last mile delivery emissions.
Further reduce VMT through continued implementation of SB 375 and regional Sustainable Communities Strategies; forthcoming statewide implementation of SB 743; and potential additional VMT reduction strategies not specified in the Mobile Source Strategy but included in the document "Potential VMT Reduction Strategies for Discussion."		Consistent. This Project would not obstruct or interfere with implementation of SB 375 and would therefore not conflict with this measure.
Increase stringency of SB 375 Sustainable Communities Strategy (2035 targets).	CARB	Consistent. This is a CARB Mobile Source Strategy. The Project would not obstruct or interfere with CARB efforts to Increase stringency of SB 375 Sustainable Communities Strategy (2035 targets).
Harmonize project performance with emissions reductions and increase competitiveness of transit and active transportation modes (e.g. via guideline documents, funding programs, project selection, etc.).	CalSTA, SGC, OPR, CARB, Governor's Office of Business and Economic Development (GO-Biz), California Infrastructure and Economic Development Bank (IBank), Department of Finance (DOF), California Transportation Commission (CTC), Caltrans	Consistent. The Project would not obstruct or interfere with agency efforts to harmonize transportation facility project performance with emissions reductions and increase competitiveness of transit and active transportation modes.
By 2019, develop pricing policies to support low-GHG transportation (e.g. low-emission	CalSTA, Caltrans,	Consistent. The Project would not obstruct or interfere with agency efforts to develop pricing policies to support low-GHG

Action	Responsible Parties	Consistency
vehicle zones for heavy duty, road user, parking pricing, transit discounts).	CTC, OPR, SGC, CARB	transportation.
Implement California Sustainable Freight Action Plan		
Improve freight system efficiency.	CalSTA, CalEPA, CNRA, CARB, Caltrans, CEC, GO-Biz	Consistent. This measure would apply to all trucks accessing the Project site, this may include existing trucks or new trucks that are part of the statewide goods movement sector. The Project would not obstruct or interfere with agency efforts to Improve freight system efficiency.
Deploy over 100,000 freight vehicles and equipment capable of zero emission operation and maximize both zero and near-zero emission freight vehicles and equipment powered by renewable energy by 2030.		Consistent. The Project would not obstruct or interfere with agency efforts to deploy over 100,000 freight vehicles and equipment capable of zero emission operation and maximize both zero and near-zero emission freight vehicles and equipment powered by renewable energy by 2030.
Adopt a Low Carbon Fuel Standard with a Carbon Intensity reduction of 18%.	CARB	Consistent. When adopted, this measure would apply to all fuel purchased and used by the Project in the state. The Project would not obstruct or interfere with agency efforts to adopt a Low Carbon Fuel Standard with a Carbon Intensity reduction of 18%.
Implement the Short-Lived Climate Pollutant Strategy (SLPS) by 2030		
40% reduction in methane and hydrofluorocarbon emissions below 2013 levels.	CARB, CalRecycle, CDFA, SWRCB, Local Air Districts	Consistent. The Project would be required to comply with this measure and reduce any Project-source SLPS emissions accordingly. The Project would not obstruct or interfere agency efforts to reduce SLPS emissions.
50% reduction in black carbon emissions below 2013 levels.		
By 2019, develop regulations and programs to support organic waste landfill reduction goals in the SLCP and SB 1383.	CARB, CalRecycle, CDFA SWRCB, Local Air Districts	Consistent. The Project would implement waste reduction and recycling measures consistent with State and City requirements. The Project would not obstruct or interfere agency efforts to support organic waste landfill reduction goals in the SLCP and SB 1383.

Action	Responsible Parties	Consistency
Implement the post-2020 Cap-and-Trade Program with declining annual caps.	CARB	Consistent. The Project would be required to comply with any applicable Cap-and-Trade Program provisions. The Project would not obstruct or interfere agency efforts to implement the post-2020 Cap-and-Trade Program.
By 2018, develop Integrated Natural and Working Lands Implementation Plan to secure California's land base as a net carbon sink		
Protect land from conversion through conservation easements and other incentives.	CNRA, Departments Within CDFA, CalEPA, CARB	Consistent. The Project would not obstruct or interfere agency efforts to protect land from conversion through conservation easements and other incentives.
Increase the long-term resilience of carbon storage in the land base and enhance sequestration capacity		Consistent. The Project site is vacant disturbed property and does not comprise an area that would effectively provide for carbon sequestration. The Project would not obstruct or interfere agency efforts to increase the long-term resilience of carbon storage in the land base and enhance sequestration capacity.
Utilize wood and agricultural products to increase the amount of carbon stored in the natural and built environments		Consistent. Where appropriate, Project designs will incorporate wood or wood products. The Project would not obstruct or interfere agency efforts to encourage use of wood and agricultural products to increase the amount of carbon stored in the natural and built environments.
Establish scenario projections to serve as the foundation for the Implementation Plan		Consistent. The Project would not obstruct or interfere agency efforts to establish scenario projections to serve as the foundation for the Implementation Plan.
Establish a carbon accounting framework for natural and working lands as described in SB 859 by 2018	CARB	Consistent. The Project would not obstruct or interfere agency efforts to establish a carbon accounting framework for natural and working lands as described in SB 859 by 2018.
Implement Forest Carbon Plan	CNRA, California Department of Forestry and Fire Protection	Consistent. The Project would not obstruct or interfere agency efforts to implement the Forest Carbon Plan.

Action	Responsible Parties	Consistency
	(CAL FIRE), CalEPA and Departments Within	
Identify and expand funding and financing mechanisms to support GHG reductions across all sectors.	State Agencies & Local Agencies	Consistent. The Project would not obstruct or interfere agency efforts to identify and expand funding and financing mechanisms to support GHG reductions across all sectors.

As shown above, the Project would not conflict with any of the 2017 Scoping Plan elements as any regulations adopted would apply directly or indirectly to the Project. Further, recent studies show that the State's existing and proposed regulatory framework will allow the State to reduce its GHG emissions level to 40% below 1990 levels by 2030 (36).

The project applicant would not actively interfere with any future City-mandated, state-mandated, or federally-mandated retrofit obligations enacted or promulgated to legally require development City-wide, state-wide, or nation-wide to assist in meeting state-adopted GHG emissions reduction targets, including that established under Executive Order S-3-05, Executive Order B-30-15, or SB 32.

The Project does not directly interfere with the state's implementation of (i) Executive Order B-30-15 and SB 32's target of reducing statewide GHG emissions to 40% below 1990 levels by 2030 or (ii) Executive Order S-3-05's target of reducing statewide GHG emissions to 80% below 1990 levels by 2050.

Notwithstanding, because the Project exceeds the applicable numeric threshold and results in a cumulatively considerable impact with respect to GHG emissions, a significant and unavoidable finding with respect to this criterion is also identified.

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5 CERTIFICATIONS

The contents of this GHG study report represent an accurate depiction of the GHG impacts associated with the proposed Fontana Foothill Commerce Center Project. The information contained in this GHG report is based on the best available data at the time of preparation. If you have any questions, please contact me directly at (949) 336-5987.

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PROFESSIONAL AFFILIATIONS

AEP – Association of Environmental Planners
AWMA – Air and Waste Management Association
ASTM – American Society for Testing and Materials

PROFESSIONAL CERTIFICATIONS

Environmental Site Assessment – American Society for Testing and Materials • June 2013
Planned Communities and Urban Infill – Urban Land Institute • June 2011
Indoor Air Quality and Industrial Hygiene – EMSL Analytical • April 2008
Principles of Ambient Air Monitoring – California Air Resources Board • August 2007
AB2588 Regulatory Standards – Trinity Consultants • November 2006
Air Dispersion Modeling – Lakes Environmental • June 2006

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APPENDIX 3.1:

CALEEMOD ANNUAL CONSTRUCTION EMISSIONS MODEL OUTPUTS

Fontana Foothills Commerce Center (Construction - Mitigated)

San Bernardino-South Coast County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Unrefrigerated Warehouse-No Rail	754.41	1000sqft	17.32	754,408.00	0
Other Asphalt Surfaces	415.94	1000sqft	9.55	415,944.00	0
Other Non-Asphalt Surfaces	132.59	1000sqft	3.04	132,592.00	0
Parking Lot	404.00	Space	3.71	161,600.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	32
Climate Zone	10			**Operational Year**	2022
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	702.44	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - Unrefrigerated Warehouse - No Rail = High-Cube Short-Term Warehouse; Parking Lot = 404 Standard Spaces; Other Non-Asphalt Surfaces = Landscape area; Other Asphalt Surfaces = Balance

Construction Phase - Construction Schedule adjusted per information provided by the Project Applicant.

Off-road Equipment - Hours are based on an 8-hour workday.

Off-road Equipment - Crawler Tractors used in lieu of Tractors/Loaders/Backhoes.

Off-road Equipment - Crawler Tractors used in lieu of Tractors/Loaders/Backhoes.

Off-road Equipment -

Off-road Equipment - Crawler Tractors used in lieu of Tractors/Loaders/Backhoes.

Demolition -

Grading - For purposes of analysis, total acres graded per day is based on the equipment specific grading rates (CalEEMod Appendix A) and the equipment list.

Architectural Coating - Rule 1113

Vehicle Trips - Construction Run Only.

Energy Use - Construction Run Only.

Water And Wastewater - Construction Run Only.

Solid Waste - Construction Run Only.

Construction Off-road Equipment Mitigation - All equipment operating at >150 HP during site preparation activities will be equipped with Tier 3 or better engines.

Vehicle Emission Factors - EMFAC2017

Vehicle Emission Factors - EMFAC2017

Vehicle Emission Factors - EMFAC2017

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	100.00	50.00
tblArchitecturalCoating	EF_Nonresidential_Interior	100.00	50.00
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tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3

tblConstructionPhase	NumDays	500.00	180.00
tblConstructionPhase	NumDays	35.00	70.00
tblEnergyUse	LightingElect	0.35	0.00
tblEnergyUse	LightingElect	1.17	0.00
tblEnergyUse	NT24E	0.82	0.00
tblEnergyUse	NT24NG	0.03	0.00
tblEnergyUse	T24E	0.37	0.00
tblEnergyUse	T24NG	2.00	0.00
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tblGrading	AcresOfGrading	40.00	70.00
tblLandUse	LotAcreage	3.64	3.71
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	0.00
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tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblSolidWaste	SolidWasteGenerationRate	709.15	0.00
tblVehicleEF	HHD	1.21	0.03
tblVehicleEF	HHD	0.04	0.06
tblVehicleEF	HHD	0.10	0.00
tblVehicleEF	HHD	3.29	8.22
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tblVehicleEF	HHD	5.1000e-005	1.0000e-006
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tblVehicleEF	HHD	0.06	0.06
tblVehicleEF	HHD	0.04	0.04
tblVehicleEF	HHD	0.01	0.03
tblVehicleEF	HHD	5.1000e-005	1.0000e-006
tblVehicleEF	HHD	7.9170e-003	3.2000e-003
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	8.8810e-003	8.9170e-003
tblVehicleEF	HHD	0.01	0.03
tblVehicleEF	HHD	4.7000e-005	1.0000e-006
tblVehicleEF	HHD	1.6800e-004	7.0000e-006
tblVehicleEF	HHD	3.5970e-003	1.2200e-004
tblVehicleEF	HHD	0.79	0.62
tblVehicleEF	HHD	1.1700e-004	5.0000e-006

tblVehicleEF	HHD	0.08	0.05
tblVehicleEF	HHD	2.2100e-004	5.3900e-004
tblVehicleEF	HHD	0.05	1.0000e-006
tblVehicleEF	HHD	0.07	0.01
tblVehicleEF	HHD	0.01	0.01
tblVehicleEF	HHD	8.4000e-005	0.00
tblVehicleEF	HHD	1.6800e-004	7.0000e-006
tblVehicleEF	HHD	3.5970e-003	1.2200e-004
tblVehicleEF	HHD	0.91	0.71
tblVehicleEF	HHD	1.1700e-004	5.0000e-006
tblVehicleEF	HHD	0.13	0.12
tblVehicleEF	HHD	2.2100e-004	5.3900e-004
tblVehicleEF	HHD	0.06	1.0000e-006
tblVehicleEF	HHD	1.31	0.03
tblVehicleEF	HHD	0.04	2.3610e-003
tblVehicleEF	HHD	0.10	0.00
tblVehicleEF	HHD	4.53	8.37
tblVehicleEF	HHD	0.57	0.25
tblVehicleEF	HHD	1.79	2.2320e-003
tblVehicleEF	HHD	6,364.76	1,476.72
tblVehicleEF	HHD	1,475.79	1,332.53
tblVehicleEF	HHD	5.54	0.02
tblVehicleEF	HHD	25.32	7.94
tblVehicleEF	HHD	2.46	2.69
tblVehicleEF	HHD	0.01	4.1670e-003
tblVehicleEF	HHD	0.06	0.06
tblVehicleEF	HHD	0.04	0.04

tblVehicleEF	HHD	0.01	0.03
tblVehicleEF	HHD	5.1000e-005	1.0000e-006
tblVehicleEF	HHD	0.01	3.9860e-003
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	8.8810e-003	8.8160e-003
tblVehicleEF	HHD	0.01	0.03
tblVehicleEF	HHD	4.7000e-005	1.0000e-006
tblVehicleEF	HHD	8.5000e-005	4.0000e-006
tblVehicleEF	HHD	3.4760e-003	1.2300e-004
tblVehicleEF	HHD	0.91	0.54
tblVehicleEF	HHD	5.2000e-005	2.0000e-006
tblVehicleEF	HHD	0.08	0.05
tblVehicleEF	HHD	2.3300e-004	5.4600e-004
tblVehicleEF	HHD	0.05	1.0000e-006
tblVehicleEF	HHD	0.06	0.01
tblVehicleEF	HHD	0.01	0.01
tblVehicleEF	HHD	8.5000e-005	0.00
tblVehicleEF	HHD	8.5000e-005	4.0000e-006
tblVehicleEF	HHD	3.4760e-003	1.2300e-004
tblVehicleEF	HHD	1.05	0.62
tblVehicleEF	HHD	5.2000e-005	2.0000e-006
tblVehicleEF	HHD	0.13	0.06
tblVehicleEF	HHD	2.3300e-004	5.4600e-004
tblVehicleEF	HHD	0.06	1.0000e-006
tblVehicleEF	LDA	4.2030e-003	2.4360e-003
tblVehicleEF	LDA	5.6230e-003	0.05
tblVehicleEF	LDA	0.57	0.65

tblVehicleEF	LDA	1.19	2.16
tblVehicleEF	LDA	251.29	261.47
tblVehicleEF	LDA	57.15	53.86
tblVehicleEF	LDA	0.05	0.04
tblVehicleEF	LDA	1.6780e-003	1.4470e-003
tblVehicleEF	LDA	2.2790e-003	1.8580e-003
tblVehicleEF	LDA	1.5460e-003	1.3330e-003
tblVehicleEF	LDA	2.0960e-003	1.7080e-003
tblVehicleEF	LDA	0.04	0.06
tblVehicleEF	LDA	0.10	0.10
tblVehicleEF	LDA	0.03	0.05
tblVehicleEF	LDA	0.01	9.3320e-003
tblVehicleEF	LDA	0.03	0.21
tblVehicleEF	LDA	0.08	0.23
tblVehicleEF	LDA	2.5170e-003	2.5870e-003
tblVehicleEF	LDA	5.9200e-004	5.3300e-004
tblVehicleEF	LDA	0.04	0.06
tblVehicleEF	LDA	0.10	0.10
tblVehicleEF	LDA	0.03	0.05
tblVehicleEF	LDA	0.02	0.01
tblVehicleEF	LDA	0.03	0.21
tblVehicleEF	LDA	0.08	0.25
tblVehicleEF	LDA	4.7900e-003	2.7940e-003
tblVehicleEF	LDA	4.6890e-003	0.04
tblVehicleEF	LDA	0.71	0.79
tblVehicleEF	LDA	0.99	1.79
tblVehicleEF	LDA	274.94	285.54

tblVehicleEF	LDA	57.15	53.16
tblVehicleEF	LDA	0.05	0.04
tblVehicleEF	LDA	1.6780e-003	1.4470e-003
tblVehicleEF	LDA	2.2790e-003	1.8580e-003
tblVehicleEF	LDA	1.5460e-003	1.3330e-003
tblVehicleEF	LDA	2.0960e-003	1.7080e-003
tblVehicleEF	LDA	0.09	0.12
tblVehicleEF	LDA	0.12	0.12
tblVehicleEF	LDA	0.07	0.10
tblVehicleEF	LDA	0.01	0.01
tblVehicleEF	LDA	0.03	0.21
tblVehicleEF	LDA	0.06	0.19
tblVehicleEF	LDA	2.7550e-003	2.8250e-003
tblVehicleEF	LDA	5.8800e-004	5.2600e-004
tblVehicleEF	LDA	0.09	0.12
tblVehicleEF	LDA	0.12	0.12
tblVehicleEF	LDA	0.07	0.10
tblVehicleEF	LDA	0.02	0.02
tblVehicleEF	LDA	0.03	0.21
tblVehicleEF	LDA	0.07	0.21
tblVehicleEF	LDA	4.0860e-003	2.3760e-003
tblVehicleEF	LDA	5.5870e-003	0.05
tblVehicleEF	LDA	0.54	0.61
tblVehicleEF	LDA	1.18	2.12
tblVehicleEF	LDA	245.70	255.84
tblVehicleEF	LDA	57.15	53.80
tblVehicleEF	LDA	0.05	0.04

tblVehicleEF	LDA	1.6780e-003	1.4470e-003
tblVehicleEF	LDA	2.2790e-003	1.8580e-003
tblVehicleEF	LDA	1.5460e-003	1.3330e-003
tblVehicleEF	LDA	2.0960e-003	1.7080e-003
tblVehicleEF	LDA	0.05	0.06
tblVehicleEF	LDA	0.11	0.11
tblVehicleEF	LDA	0.03	0.05
tblVehicleEF	LDA	0.01	9.0880e-003
tblVehicleEF	LDA	0.04	0.24
tblVehicleEF	LDA	0.08	0.23
tblVehicleEF	LDA	2.4600e-003	2.5310e-003
tblVehicleEF	LDA	5.9100e-004	5.3200e-004
tblVehicleEF	LDA	0.05	0.06
tblVehicleEF	LDA	0.11	0.11
tblVehicleEF	LDA	0.03	0.05
tblVehicleEF	LDA	0.01	0.01
tblVehicleEF	LDA	0.04	0.24
tblVehicleEF	LDA	0.08	0.25
tblVehicleEF	LDT1	0.01	7.0610e-003
tblVehicleEF	LDT1	0.02	0.08
tblVehicleEF	LDT1	1.54	1.44
tblVehicleEF	LDT1	3.61	2.44
tblVehicleEF	LDT1	313.68	310.02
tblVehicleEF	LDT1	70.93	65.50
tblVehicleEF	LDT1	0.16	0.13
tblVehicleEF	LDT1	2.7050e-003	2.1940e-003
tblVehicleEF	LDT1	3.6920e-003	2.8520e-003

tblVehicleEF	LDT1	2.4910e-003	2.0190e-003
tblVehicleEF	LDT1	3.3960e-003	2.6220e-003
tblVehicleEF	LDT1	0.18	0.19
tblVehicleEF	LDT1	0.33	0.26
tblVehicleEF	LDT1	0.13	0.13
tblVehicleEF	LDT1	0.03	0.03
tblVehicleEF	LDT1	0.20	0.88
tblVehicleEF	LDT1	0.26	0.43
tblVehicleEF	LDT1	3.1570e-003	3.0680e-003
tblVehicleEF	LDT1	7.7300e-004	6.4800e-004
tblVehicleEF	LDT1	0.18	0.19
tblVehicleEF	LDT1	0.33	0.26
tblVehicleEF	LDT1	0.13	0.13
tblVehicleEF	LDT1	0.05	0.05
tblVehicleEF	LDT1	0.20	0.88
tblVehicleEF	LDT1	0.28	0.48
tblVehicleEF	LDT1	0.02	8.0100e-003
tblVehicleEF	LDT1	0.02	0.07
tblVehicleEF	LDT1	1.85	1.74
tblVehicleEF	LDT1	2.97	2.02
tblVehicleEF	LDT1	341.75	335.16
tblVehicleEF	LDT1	70.93	64.59
tblVehicleEF	LDT1	0.14	0.12
tblVehicleEF	LDT1	2.7050e-003	2.1940e-003
tblVehicleEF	LDT1	3.6920e-003	2.8520e-003
tblVehicleEF	LDT1	2.4910e-003	2.0190e-003
tblVehicleEF	LDT1	3.3960e-003	2.6220e-003

tblVehicleEF	LDT1	0.37	0.40
tblVehicleEF	LDT1	0.41	0.33
tblVehicleEF	LDT1	0.27	0.29
tblVehicleEF	LDT1	0.04	0.04
tblVehicleEF	LDT1	0.20	0.88
tblVehicleEF	LDT1	0.21	0.36
tblVehicleEF	LDT1	3.4420e-003	3.3170e-003
tblVehicleEF	LDT1	7.6200e-004	6.3900e-004
tblVehicleEF	LDT1	0.37	0.40
tblVehicleEF	LDT1	0.41	0.33
tblVehicleEF	LDT1	0.27	0.29
tblVehicleEF	LDT1	0.06	0.05
tblVehicleEF	LDT1	0.20	0.88
tblVehicleEF	LDT1	0.23	0.40
tblVehicleEF	LDT1	0.01	6.8960e-003
tblVehicleEF	LDT1	0.02	0.08
tblVehicleEF	LDT1	1.47	1.37
tblVehicleEF	LDT1	3.55	2.40
tblVehicleEF	LDT1	307.06	304.06
tblVehicleEF	LDT1	70.93	65.42
tblVehicleEF	LDT1	0.15	0.12
tblVehicleEF	LDT1	2.7050e-003	2.1940e-003
tblVehicleEF	LDT1	3.6920e-003	2.8520e-003
tblVehicleEF	LDT1	2.4910e-003	2.0190e-003
tblVehicleEF	LDT1	3.3960e-003	2.6220e-003
tblVehicleEF	LDT1	0.19	0.20
tblVehicleEF	LDT1	0.39	0.30

tblVehicleEF	LDT1	0.12	0.12
tblVehicleEF	LDT1	0.03	0.03
tblVehicleEF	LDT1	0.23	1.03
tblVehicleEF	LDT1	0.25	0.43
tblVehicleEF	LDT1	3.0890e-003	3.0090e-003
tblVehicleEF	LDT1	7.7200e-004	6.4700e-004
tblVehicleEF	LDT1	0.19	0.20
tblVehicleEF	LDT1	0.39	0.30
tblVehicleEF	LDT1	0.12	0.12
tblVehicleEF	LDT1	0.05	0.04
tblVehicleEF	LDT1	0.23	1.03
tblVehicleEF	LDT1	0.28	0.47
tblVehicleEF	LDT2	6.3270e-003	4.2800e-003
tblVehicleEF	LDT2	8.1990e-003	0.07
tblVehicleEF	LDT2	0.80	0.97
tblVehicleEF	LDT2	1.67	2.78
tblVehicleEF	LDT2	351.15	331.49
tblVehicleEF	LDT2	79.39	70.30
tblVehicleEF	LDT2	0.09	0.09
tblVehicleEF	LDT2	1.7270e-003	1.5180e-003
tblVehicleEF	LDT2	2.4170e-003	1.9480e-003
tblVehicleEF	LDT2	1.5880e-003	1.3970e-003
tblVehicleEF	LDT2	2.2220e-003	1.7910e-003
tblVehicleEF	LDT2	0.06	0.10
tblVehicleEF	LDT2	0.13	0.15
tblVehicleEF	LDT2	0.05	0.08
tblVehicleEF	LDT2	0.02	0.02

tblVehicleEF	LDT2	0.07	0.48
tblVehicleEF	LDT2	0.11	0.35
tblVehicleEF	LDT2	3.5180e-003	3.2800e-003
tblVehicleEF	LDT2	8.2200e-004	6.9600e-004
tblVehicleEF	LDT2	0.06	0.10
tblVehicleEF	LDT2	0.13	0.15
tblVehicleEF	LDT2	0.05	0.08
tblVehicleEF	LDT2	0.02	0.03
tblVehicleEF	LDT2	0.07	0.48
tblVehicleEF	LDT2	0.12	0.38
tblVehicleEF	LDT2	7.1840e-003	4.8870e-003
tblVehicleEF	LDT2	6.8290e-003	0.06
tblVehicleEF	LDT2	0.97	1.18
tblVehicleEF	LDT2	1.38	2.30
tblVehicleEF	LDT2	383.36	355.94
tblVehicleEF	LDT2	79.39	69.35
tblVehicleEF	LDT2	0.08	0.08
tblVehicleEF	LDT2	1.7270e-003	1.5180e-003
tblVehicleEF	LDT2	2.4170e-003	1.9480e-003
tblVehicleEF	LDT2	1.5880e-003	1.3970e-003
tblVehicleEF	LDT2	2.2220e-003	1.7910e-003
tblVehicleEF	LDT2	0.13	0.21
tblVehicleEF	LDT2	0.15	0.18
tblVehicleEF	LDT2	0.11	0.18
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.07	0.48
tblVehicleEF	LDT2	0.09	0.29

tblVehicleEF	LDT2	3.8420e-003	3.5220e-003
tblVehicleEF	LDT2	8.1700e-004	6.8600e-004
tblVehicleEF	LDT2	0.13	0.21
tblVehicleEF	LDT2	0.15	0.18
tblVehicleEF	LDT2	0.11	0.18
tblVehicleEF	LDT2	0.03	0.03
tblVehicleEF	LDT2	0.07	0.48
tblVehicleEF	LDT2	0.10	0.32
tblVehicleEF	LDT2	6.1560e-003	4.1770e-003
tblVehicleEF	LDT2	8.1410e-003	0.07
tblVehicleEF	LDT2	0.75	0.92
tblVehicleEF	LDT2	1.64	2.74
tblVehicleEF	LDT2	343.55	325.69
tblVehicleEF	LDT2	79.39	70.22
tblVehicleEF	LDT2	0.08	0.09
tblVehicleEF	LDT2	1.7270e-003	1.5180e-003
tblVehicleEF	LDT2	2.4170e-003	1.9480e-003
tblVehicleEF	LDT2	1.5880e-003	1.3970e-003
tblVehicleEF	LDT2	2.2220e-003	1.7910e-003
tblVehicleEF	LDT2	0.06	0.10
tblVehicleEF	LDT2	0.14	0.16
tblVehicleEF	LDT2	0.05	0.08
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.08	0.56
tblVehicleEF	LDT2	0.11	0.35
tblVehicleEF	LDT2	3.4410e-003	3.2220e-003
tblVehicleEF	LDT2	8.2200e-004	6.9500e-004

tblVehicleEF	LDT2	0.06	0.10
tblVehicleEF	LDT2	0.14	0.16
tblVehicleEF	LDT2	0.05	0.08
tblVehicleEF	LDT2	0.02	0.03
tblVehicleEF	LDT2	0.08	0.56
tblVehicleEF	LDT2	0.12	0.38
tblVehicleEF	LHD1	5.2170e-003	4.8640e-003
tblVehicleEF	LHD1	0.01	6.5090e-003
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	0.14	0.17
tblVehicleEF	LHD1	1.07	0.88
tblVehicleEF	LHD1	2.60	1.03
tblVehicleEF	LHD1	9.23	9.35
tblVehicleEF	LHD1	609.20	648.62
tblVehicleEF	LHD1	30.40	10.79
tblVehicleEF	LHD1	0.09	0.08
tblVehicleEF	LHD1	2.12	1.54
tblVehicleEF	LHD1	9.6500e-004	9.5300e-004
tblVehicleEF	LHD1	0.01	9.9680e-003
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	9.5800e-004	2.6300e-004
tblVehicleEF	LHD1	9.2400e-004	9.1200e-004
tblVehicleEF	LHD1	2.5390e-003	2.4920e-003
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	8.8100e-004	2.4200e-004
tblVehicleEF	LHD1	3.7070e-003	3.1750e-003
tblVehicleEF	LHD1	0.11	0.09

tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	1.8240e-003	1.5420e-003
tblVehicleEF	LHD1	0.08	0.07
tblVehicleEF	LHD1	0.35	0.60
tblVehicleEF	LHD1	0.27	0.08
tblVehicleEF	LHD1	9.2000e-005	9.0000e-005
tblVehicleEF	LHD1	5.9760e-003	6.3130e-003
tblVehicleEF	LHD1	3.5300e-004	1.0700e-004
tblVehicleEF	LHD1	3.7070e-003	3.1750e-003
tblVehicleEF	LHD1	0.11	0.09
tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	1.8240e-003	1.5420e-003
tblVehicleEF	LHD1	0.10	0.08
tblVehicleEF	LHD1	0.35	0.60
tblVehicleEF	LHD1	0.29	0.09
tblVehicleEF	LHD1	5.2170e-003	4.8790e-003
tblVehicleEF	LHD1	0.01	6.6670e-003
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	0.14	0.17
tblVehicleEF	LHD1	1.09	0.90
tblVehicleEF	LHD1	2.43	0.97
tblVehicleEF	LHD1	9.23	9.35
tblVehicleEF	LHD1	609.20	648.66
tblVehicleEF	LHD1	30.40	10.67
tblVehicleEF	LHD1	0.09	0.08
tblVehicleEF	LHD1	1.98	1.44
tblVehicleEF	LHD1	9.6500e-004	9.5300e-004

tblVehicleEF	LHD1	0.01	9.9680e-003
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	9.5800e-004	2.6300e-004
tblVehicleEF	LHD1	9.2400e-004	9.1200e-004
tblVehicleEF	LHD1	2.5390e-003	2.4920e-003
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	8.8100e-004	2.4200e-004
tblVehicleEF	LHD1	7.3080e-003	6.2980e-003
tblVehicleEF	LHD1	0.13	0.11
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	4.1220e-003	3.5370e-003
tblVehicleEF	LHD1	0.09	0.07
tblVehicleEF	LHD1	0.36	0.60
tblVehicleEF	LHD1	0.25	0.08
tblVehicleEF	LHD1	9.2000e-005	9.0000e-005
tblVehicleEF	LHD1	5.9770e-003	6.3140e-003
tblVehicleEF	LHD1	3.5000e-004	1.0600e-004
tblVehicleEF	LHD1	7.3080e-003	6.2980e-003
tblVehicleEF	LHD1	0.13	0.11
tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	4.1220e-003	3.5370e-003
tblVehicleEF	LHD1	0.11	0.09
tblVehicleEF	LHD1	0.36	0.60
tblVehicleEF	LHD1	0.28	0.08
tblVehicleEF	LHD1	5.2170e-003	4.8670e-003
tblVehicleEF	LHD1	0.01	6.5250e-003
tblVehicleEF	LHD1	0.02	0.02

tblVehicleEF	LHD1	0.14	0.17
tblVehicleEF	LHD1	1.07	0.89
tblVehicleEF	LHD1	2.55	1.02
tblVehicleEF	LHD1	9.23	9.35
tblVehicleEF	LHD1	609.20	648.63
tblVehicleEF	LHD1	30.40	10.76
tblVehicleEF	LHD1	0.09	0.08
tblVehicleEF	LHD1	2.08	1.51
tblVehicleEF	LHD1	9.6500e-004	9.5300e-004
tblVehicleEF	LHD1	0.01	9.9680e-003
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	9.5800e-004	2.6300e-004
tblVehicleEF	LHD1	9.2400e-004	9.1200e-004
tblVehicleEF	LHD1	2.5390e-003	2.4920e-003
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	8.8100e-004	2.4200e-004
tblVehicleEF	LHD1	4.0430e-003	3.5090e-003
tblVehicleEF	LHD1	0.13	0.10
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	1.7940e-003	1.5200e-003
tblVehicleEF	LHD1	0.08	0.07
tblVehicleEF	LHD1	0.38	0.64
tblVehicleEF	LHD1	0.26	0.08
tblVehicleEF	LHD1	9.2000e-005	9.0000e-005
tblVehicleEF	LHD1	5.9760e-003	6.3130e-003
tblVehicleEF	LHD1	3.5200e-004	1.0600e-004
tblVehicleEF	LHD1	4.0430e-003	3.5090e-003

tblVehicleEF	LHD1	0.13	0.10
tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	1.7940e-003	1.5200e-003
tblVehicleEF	LHD1	0.10	0.08
tblVehicleEF	LHD1	0.38	0.64
tblVehicleEF	LHD1	0.29	0.09
tblVehicleEF	LHD2	3.5950e-003	3.3090e-003
tblVehicleEF	LHD2	4.6110e-003	4.1580e-003
tblVehicleEF	LHD2	8.1370e-003	9.5080e-003
tblVehicleEF	LHD2	0.12	0.14
tblVehicleEF	LHD2	0.50	0.56
tblVehicleEF	LHD2	1.20	0.61
tblVehicleEF	LHD2	14.27	14.55
tblVehicleEF	LHD2	608.52	648.96
tblVehicleEF	LHD2	24.46	7.78
tblVehicleEF	LHD2	0.11	0.11
tblVehicleEF	LHD2	1.49	1.65
tblVehicleEF	LHD2	1.2830e-003	1.4030e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	4.0000e-004	1.2600e-004
tblVehicleEF	LHD2	1.2280e-003	1.3430e-003
tblVehicleEF	LHD2	2.6860e-003	2.6930e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	3.6800e-004	1.1600e-004
tblVehicleEF	LHD2	1.3070e-003	1.5580e-003
tblVehicleEF	LHD2	0.04	0.05

tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	7.0300e-004	8.0000e-004
tblVehicleEF	LHD2	0.06	0.06
tblVehicleEF	LHD2	0.09	0.29
tblVehicleEF	LHD2	0.11	0.05
tblVehicleEF	LHD2	5.9200e-003	6.2610e-003
tblVehicleEF	LHD2	2.6700e-004	7.7000e-005
tblVehicleEF	LHD2	1.3070e-003	1.5580e-003
tblVehicleEF	LHD2	0.04	0.05
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	7.0300e-004	8.0000e-004
tblVehicleEF	LHD2	0.07	0.07
tblVehicleEF	LHD2	0.09	0.29
tblVehicleEF	LHD2	0.12	0.05
tblVehicleEF	LHD2	3.5950e-003	3.3190e-003
tblVehicleEF	LHD2	4.6760e-003	4.2030e-003
tblVehicleEF	LHD2	7.7630e-003	9.0810e-003
tblVehicleEF	LHD2	0.12	0.14
tblVehicleEF	LHD2	0.50	0.56
tblVehicleEF	LHD2	1.13	0.57
tblVehicleEF	LHD2	14.27	14.55
tblVehicleEF	LHD2	608.52	648.97
tblVehicleEF	LHD2	24.46	7.71
tblVehicleEF	LHD2	0.11	0.11
tblVehicleEF	LHD2	1.40	1.55
tblVehicleEF	LHD2	1.2830e-003	1.4030e-003
tblVehicleEF	LHD2	0.01	0.01

tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	4.0000e-004	1.2600e-004
tblVehicleEF	LHD2	1.2280e-003	1.3430e-003
tblVehicleEF	LHD2	2.6860e-003	2.6930e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	3.6800e-004	1.1600e-004
tblVehicleEF	LHD2	2.5220e-003	3.0280e-003
tblVehicleEF	LHD2	0.04	0.06
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	1.5220e-003	1.7650e-003
tblVehicleEF	LHD2	0.06	0.06
tblVehicleEF	LHD2	0.09	0.29
tblVehicleEF	LHD2	0.10	0.04
tblVehicleEF	LHD2	5.9200e-003	6.2610e-003
tblVehicleEF	LHD2	2.6500e-004	7.6000e-005
tblVehicleEF	LHD2	2.5220e-003	3.0280e-003
tblVehicleEF	LHD2	0.04	0.06
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	1.5220e-003	1.7650e-003
tblVehicleEF	LHD2	0.07	0.07
tblVehicleEF	LHD2	0.09	0.29
tblVehicleEF	LHD2	0.11	0.05
tblVehicleEF	LHD2	3.5950e-003	3.3110e-003
tblVehicleEF	LHD2	4.6180e-003	4.1630e-003
tblVehicleEF	LHD2	8.0640e-003	9.4270e-003
tblVehicleEF	LHD2	0.12	0.14
tblVehicleEF	LHD2	0.50	0.56

tblVehicleEF	LHD2	1.19	0.60
tblVehicleEF	LHD2	14.27	14.55
tblVehicleEF	LHD2	608.52	648.96
tblVehicleEF	LHD2	24.46	7.77
tblVehicleEF	LHD2	0.11	0.11
tblVehicleEF	LHD2	1.46	1.62
tblVehicleEF	LHD2	1.2830e-003	1.4030e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	4.0000e-004	1.2600e-004
tblVehicleEF	LHD2	1.2280e-003	1.3430e-003
tblVehicleEF	LHD2	2.6860e-003	2.6930e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	3.6800e-004	1.1600e-004
tblVehicleEF	LHD2	1.3460e-003	1.6400e-003
tblVehicleEF	LHD2	0.04	0.05
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	6.8700e-004	7.8100e-004
tblVehicleEF	LHD2	0.06	0.06
tblVehicleEF	LHD2	0.10	0.31
tblVehicleEF	LHD2	0.11	0.05
tblVehicleEF	LHD2	5.9200e-003	6.2610e-003
tblVehicleEF	LHD2	2.6600e-004	7.7000e-005
tblVehicleEF	LHD2	1.3460e-003	1.6400e-003
tblVehicleEF	LHD2	0.04	0.05
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	6.8700e-004	7.8100e-004

tblVehicleEF	LHD2	0.07	0.07
tblVehicleEF	LHD2	0.10	0.31
tblVehicleEF	LHD2	0.12	0.05
tblVehicleEF	MCY	0.43	0.33
tblVehicleEF	MCY	0.16	0.25
tblVehicleEF	MCY	20.55	20.74
tblVehicleEF	MCY	9.93	8.78
tblVehicleEF	MCY	167.73	210.98
tblVehicleEF	MCY	46.45	61.55
tblVehicleEF	MCY	1.16	1.17
tblVehicleEF	MCY	1.8610e-003	1.8280e-003
tblVehicleEF	MCY	3.6730e-003	3.0520e-003
tblVehicleEF	MCY	1.7420e-003	1.7110e-003
tblVehicleEF	MCY	3.4650e-003	2.8770e-003
tblVehicleEF	MCY	1.45	1.44
tblVehicleEF	MCY	0.84	0.84
tblVehicleEF	MCY	0.80	0.80
tblVehicleEF	MCY	2.23	2.23
tblVehicleEF	MCY	0.49	2.04
tblVehicleEF	MCY	2.16	1.90
tblVehicleEF	MCY	2.0770e-003	2.0880e-003
tblVehicleEF	MCY	6.9000e-004	6.0900e-004
tblVehicleEF	MCY	1.45	1.44
tblVehicleEF	MCY	0.84	0.84
tblVehicleEF	MCY	0.80	0.80
tblVehicleEF	MCY	2.74	2.74
tblVehicleEF	MCY	0.49	2.04

tblVehicleEF	MCY	2.35	2.07
tblVehicleEF	MCY	0.42	0.32
tblVehicleEF	MCY	0.14	0.22
tblVehicleEF	MCY	20.68	20.87
tblVehicleEF	MCY	9.05	7.97
tblVehicleEF	MCY	167.73	210.98
tblVehicleEF	MCY	46.45	59.35
tblVehicleEF	MCY	0.99	0.99
tblVehicleEF	MCY	1.8610e-003	1.8280e-003
tblVehicleEF	MCY	3.6730e-003	3.0520e-003
tblVehicleEF	MCY	1.7420e-003	1.7110e-003
tblVehicleEF	MCY	3.4650e-003	2.8770e-003
tblVehicleEF	MCY	3.14	3.14
tblVehicleEF	MCY	1.27	1.28
tblVehicleEF	MCY	2.13	2.12
tblVehicleEF	MCY	2.17	2.17
tblVehicleEF	MCY	0.49	2.03
tblVehicleEF	MCY	1.86	1.63
tblVehicleEF	MCY	2.0770e-003	2.0880e-003
tblVehicleEF	MCY	6.6700e-004	5.8700e-004
tblVehicleEF	MCY	3.14	3.14
tblVehicleEF	MCY	1.27	1.28
tblVehicleEF	MCY	2.13	2.12
tblVehicleEF	MCY	2.67	2.67
tblVehicleEF	MCY	0.49	2.03
tblVehicleEF	MCY	2.02	1.77
tblVehicleEF	MCY	0.42	0.32

tblVehicleEF	MCY	0.15	0.24
tblVehicleEF	MCY	19.63	19.79
tblVehicleEF	MCY	9.55	8.43
tblVehicleEF	MCY	167.73	209.35
tblVehicleEF	MCY	46.45	60.75
tblVehicleEF	MCY	1.12	1.12
tblVehicleEF	MCY	1.8610e-003	1.8280e-003
tblVehicleEF	MCY	3.6730e-003	3.0520e-003
tblVehicleEF	MCY	1.7420e-003	1.7110e-003
tblVehicleEF	MCY	3.4650e-003	2.8770e-003
tblVehicleEF	MCY	1.71	1.70
tblVehicleEF	MCY	1.13	1.12
tblVehicleEF	MCY	0.72	0.71
tblVehicleEF	MCY	2.19	2.20
tblVehicleEF	MCY	0.56	2.32
tblVehicleEF	MCY	2.08	1.83
tblVehicleEF	MCY	2.0610e-003	2.0720e-003
tblVehicleEF	MCY	6.8200e-004	6.0100e-004
tblVehicleEF	MCY	1.71	1.70
tblVehicleEF	MCY	1.13	1.12
tblVehicleEF	MCY	0.72	0.71
tblVehicleEF	MCY	2.69	2.69
tblVehicleEF	MCY	0.56	2.32
tblVehicleEF	MCY	2.27	1.99
tblVehicleEF	MDV	0.01	5.5560e-003
tblVehicleEF	MDV	0.02	0.09
tblVehicleEF	MDV	1.35	1.14

tblVehicleEF	MDV	3.25	3.33
tblVehicleEF	MDV	483.94	412.02
tblVehicleEF	MDV	107.92	87.05
tblVehicleEF	MDV	0.17	0.12
tblVehicleEF	MDV	1.8260e-003	1.6290e-003
tblVehicleEF	MDV	2.5170e-003	2.0560e-003
tblVehicleEF	MDV	1.6830e-003	1.5030e-003
tblVehicleEF	MDV	2.3150e-003	1.8910e-003
tblVehicleEF	MDV	0.10	0.12
tblVehicleEF	MDV	0.20	0.17
tblVehicleEF	MDV	0.08	0.10
tblVehicleEF	MDV	0.03	0.02
tblVehicleEF	MDV	0.11	0.52
tblVehicleEF	MDV	0.25	0.45
tblVehicleEF	MDV	4.8500e-003	4.0740e-003
tblVehicleEF	MDV	1.1370e-003	8.6100e-004
tblVehicleEF	MDV	0.10	0.12
tblVehicleEF	MDV	0.20	0.17
tblVehicleEF	MDV	0.08	0.10
tblVehicleEF	MDV	0.05	0.03
tblVehicleEF	MDV	0.11	0.52
tblVehicleEF	MDV	0.28	0.50
tblVehicleEF	MDV	0.01	6.3580e-003
tblVehicleEF	MDV	0.02	0.08
tblVehicleEF	MDV	1.64	1.38
tblVehicleEF	MDV	2.69	2.75
tblVehicleEF	MDV	526.85	437.99

tblVehicleEF	MDV	107.92	85.88
tblVehicleEF	MDV	0.16	0.11
tblVehicleEF	MDV	1.8260e-003	1.6290e-003
tblVehicleEF	MDV	2.5170e-003	2.0560e-003
tblVehicleEF	MDV	1.6830e-003	1.5030e-003
tblVehicleEF	MDV	2.3150e-003	1.8910e-003
tblVehicleEF	MDV	0.20	0.24
tblVehicleEF	MDV	0.23	0.20
tblVehicleEF	MDV	0.17	0.21
tblVehicleEF	MDV	0.04	0.03
tblVehicleEF	MDV	0.11	0.52
tblVehicleEF	MDV	0.21	0.38
tblVehicleEF	MDV	5.2830e-003	4.3310e-003
tblVehicleEF	MDV	1.1260e-003	8.5000e-004
tblVehicleEF	MDV	0.20	0.24
tblVehicleEF	MDV	0.23	0.20
tblVehicleEF	MDV	0.17	0.21
tblVehicleEF	MDV	0.05	0.04
tblVehicleEF	MDV	0.11	0.52
tblVehicleEF	MDV	0.23	0.42
tblVehicleEF	MDV	0.01	5.4100e-003
tblVehicleEF	MDV	0.02	0.09
tblVehicleEF	MDV	1.28	1.08
tblVehicleEF	MDV	3.20	3.28
tblVehicleEF	MDV	473.93	405.86
tblVehicleEF	MDV	107.92	86.95
tblVehicleEF	MDV	0.16	0.11

tblVehicleEF	MDV	1.8260e-003	1.6290e-003
tblVehicleEF	MDV	2.5170e-003	2.0560e-003
tblVehicleEF	MDV	1.6830e-003	1.5030e-003
tblVehicleEF	MDV	2.3150e-003	1.8910e-003
tblVehicleEF	MDV	0.10	0.11
tblVehicleEF	MDV	0.22	0.19
tblVehicleEF	MDV	0.08	0.10
tblVehicleEF	MDV	0.03	0.02
tblVehicleEF	MDV	0.13	0.60
tblVehicleEF	MDV	0.25	0.45
tblVehicleEF	MDV	4.7490e-003	4.0130e-003
tblVehicleEF	MDV	1.1360e-003	8.6000e-004
tblVehicleEF	MDV	0.10	0.11
tblVehicleEF	MDV	0.22	0.19
tblVehicleEF	MDV	0.08	0.10
tblVehicleEF	MDV	0.04	0.03
tblVehicleEF	MDV	0.13	0.60
tblVehicleEF	MDV	0.27	0.49
tblVehicleEF	MH	0.04	3.7970e-003
tblVehicleEF	MH	0.03	0.00
tblVehicleEF	MH	3.07	0.36
tblVehicleEF	MH	6.43	0.00
tblVehicleEF	MH	1,045.05	951.23
tblVehicleEF	MH	59.49	0.00
tblVehicleEF	MH	1.54	4.54
tblVehicleEF	MH	0.01	0.02
tblVehicleEF	MH	0.04	0.14

tblVehicleEF	MH	1.1740e-003	0.00
tblVehicleEF	MH	3.2230e-003	4.0000e-003
tblVehicleEF	MH	0.04	0.14
tblVehicleEF	MH	1.0790e-003	0.00
tblVehicleEF	MH	1.47	0.00
tblVehicleEF	MH	0.09	0.00
tblVehicleEF	MH	0.51	0.00
tblVehicleEF	MH	0.10	0.08
tblVehicleEF	MH	0.03	0.00
tblVehicleEF	MH	0.37	0.00
tblVehicleEF	MH	0.01	8.9930e-003
tblVehicleEF	MH	7.0700e-004	0.00
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tblVehicleEF	MH	0.09	0.00
tblVehicleEF	MH	0.51	0.00
tblVehicleEF	MH	0.14	0.09
tblVehicleEF	MH	0.03	0.00
tblVehicleEF	MH	0.40	0.00
tblVehicleEF	MH	0.04	3.7970e-003
tblVehicleEF	MH	0.03	0.00
tblVehicleEF	MH	3.19	0.36
tblVehicleEF	MH	5.84	0.00
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tblVehicleEF	MH	59.49	0.00
tblVehicleEF	MH	1.41	4.26
tblVehicleEF	MH	0.01	0.02
tblVehicleEF	MH	0.04	0.14

tblVehicleEF	MH	1.1740e-003	0.00
tblVehicleEF	MH	3.2230e-003	4.0000e-003
tblVehicleEF	MH	0.04	0.14
tblVehicleEF	MH	1.0790e-003	0.00
tblVehicleEF	MH	2.91	0.00
tblVehicleEF	MH	0.11	0.00
tblVehicleEF	MH	1.21	0.00
tblVehicleEF	MH	0.11	0.08
tblVehicleEF	MH	0.03	0.00
tblVehicleEF	MH	0.34	0.00
tblVehicleEF	MH	0.01	8.9930e-003
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tblVehicleEF	MH	2.91	0.00
tblVehicleEF	MH	0.11	0.00
tblVehicleEF	MH	1.21	0.00
tblVehicleEF	MH	0.15	0.09
tblVehicleEF	MH	0.03	0.00
tblVehicleEF	MH	0.38	0.00
tblVehicleEF	MH	0.04	3.7970e-003
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tblVehicleEF	MH	3.08	0.36
tblVehicleEF	MH	6.36	0.00
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tblVehicleEF	MH	59.49	0.00
tblVehicleEF	MH	1.51	4.46
tblVehicleEF	MH	0.01	0.02
tblVehicleEF	MH	0.04	0.14

tblVehicleEF	MH	1.1740e-003	0.00
tblVehicleEF	MH	3.2230e-003	4.0000e-003
tblVehicleEF	MH	0.04	0.14
tblVehicleEF	MH	1.0790e-003	0.00
tblVehicleEF	MH	1.75	0.00
tblVehicleEF	MH	0.11	0.00
tblVehicleEF	MH	0.53	0.00
tblVehicleEF	MH	0.10	0.08
tblVehicleEF	MH	0.03	0.00
tblVehicleEF	MH	0.37	0.00
tblVehicleEF	MH	0.01	8.9930e-003
tblVehicleEF	MH	7.0600e-004	0.00
tblVehicleEF	MH	1.75	0.00
tblVehicleEF	MH	0.11	0.00
tblVehicleEF	MH	0.53	0.00
tblVehicleEF	MH	0.15	0.09
tblVehicleEF	MH	0.03	0.00
tblVehicleEF	MH	0.40	0.00
tblVehicleEF	MHD	0.02	3.1740e-003
tblVehicleEF	MHD	3.5160e-003	3.4880e-003
tblVehicleEF	MHD	0.05	8.5120e-003
tblVehicleEF	MHD	0.32	0.34
tblVehicleEF	MHD	0.27	0.35
tblVehicleEF	MHD	5.32	0.97
tblVehicleEF	MHD	156.91	69.07
tblVehicleEF	MHD	1,101.52	999.60
tblVehicleEF	MHD	52.43	8.24

tblVehicleEF	MHD	0.60	0.51
tblVehicleEF	MHD	0.99	1.54
tblVehicleEF	MHD	3.8600e-004	1.1810e-003
tblVehicleEF	MHD	5.0030e-003	0.03
tblVehicleEF	MHD	7.6400e-004	1.0000e-004
tblVehicleEF	MHD	3.6900e-004	1.1300e-003
tblVehicleEF	MHD	4.7830e-003	0.03
tblVehicleEF	MHD	7.0300e-004	9.2000e-005
tblVehicleEF	MHD	1.2800e-003	5.9300e-004
tblVehicleEF	MHD	0.04	0.02
tblVehicleEF	MHD	0.02	0.02
tblVehicleEF	MHD	6.5100e-004	3.0000e-004
tblVehicleEF	MHD	0.04	0.05
tblVehicleEF	MHD	0.02	0.11
tblVehicleEF	MHD	0.32	0.04
tblVehicleEF	MHD	1.5080e-003	6.5500e-004
tblVehicleEF	MHD	0.01	9.5250e-003
tblVehicleEF	MHD	6.1700e-004	8.2000e-005
tblVehicleEF	MHD	1.2800e-003	5.9300e-004
tblVehicleEF	MHD	0.04	0.02
tblVehicleEF	MHD	0.03	0.02
tblVehicleEF	MHD	6.5100e-004	3.0000e-004
tblVehicleEF	MHD	0.04	0.06
tblVehicleEF	MHD	0.02	0.11
tblVehicleEF	MHD	0.35	0.05
tblVehicleEF	MHD	0.02	3.0170e-003
tblVehicleEF	MHD	3.5800e-003	3.5290e-003

tblVehicleEF	MHD	0.05	8.1180e-003
tblVehicleEF	MHD	0.24	0.28
tblVehicleEF	MHD	0.28	0.36
tblVehicleEF	MHD	4.97	0.91
tblVehicleEF	MHD	166.20	69.79
tblVehicleEF	MHD	1,101.52	999.60
tblVehicleEF	MHD	52.43	8.13
tblVehicleEF	MHD	0.62	0.51
tblVehicleEF	MHD	0.92	1.44
tblVehicleEF	MHD	3.2500e-004	9.9900e-004
tblVehicleEF	MHD	5.0030e-003	0.03
tblVehicleEF	MHD	7.6400e-004	1.0000e-004
tblVehicleEF	MHD	3.1100e-004	9.5500e-004
tblVehicleEF	MHD	4.7830e-003	0.03
tblVehicleEF	MHD	7.0300e-004	9.2000e-005
tblVehicleEF	MHD	2.5300e-003	1.1740e-003
tblVehicleEF	MHD	0.05	0.02
tblVehicleEF	MHD	0.02	0.02
tblVehicleEF	MHD	1.5010e-003	6.9400e-004
tblVehicleEF	MHD	0.04	0.05
tblVehicleEF	MHD	0.02	0.11
tblVehicleEF	MHD	0.30	0.04
tblVehicleEF	MHD	1.5950e-003	6.6200e-004
tblVehicleEF	MHD	0.01	9.5250e-003
tblVehicleEF	MHD	6.1100e-004	8.1000e-005
tblVehicleEF	MHD	2.5300e-003	1.1740e-003
tblVehicleEF	MHD	0.05	0.02

tblVehicleEF	MHD	0.03	0.02
tblVehicleEF	MHD	1.5010e-003	6.9400e-004
tblVehicleEF	MHD	0.04	0.06
tblVehicleEF	MHD	0.02	0.11
tblVehicleEF	MHD	0.33	0.05
tblVehicleEF	MHD	0.02	3.4070e-003
tblVehicleEF	MHD	3.5220e-003	3.4910e-003
tblVehicleEF	MHD	0.05	8.4150e-003
tblVehicleEF	MHD	0.45	0.41
tblVehicleEF	MHD	0.27	0.35
tblVehicleEF	MHD	5.23	0.96
tblVehicleEF	MHD	144.06	68.08
tblVehicleEF	MHD	1,101.52	999.60
tblVehicleEF	MHD	52.43	8.22
tblVehicleEF	MHD	0.57	0.51
tblVehicleEF	MHD	0.97	1.51
tblVehicleEF	MHD	4.7000e-004	1.4340e-003
tblVehicleEF	MHD	5.0030e-003	0.03
tblVehicleEF	MHD	7.6400e-004	1.0000e-004
tblVehicleEF	MHD	4.4900e-004	1.3720e-003
tblVehicleEF	MHD	4.7830e-003	0.03
tblVehicleEF	MHD	7.0300e-004	9.2000e-005
tblVehicleEF	MHD	1.3890e-003	6.4600e-004
tblVehicleEF	MHD	0.05	0.02
tblVehicleEF	MHD	0.03	0.02
tblVehicleEF	MHD	6.4000e-004	2.9500e-004
tblVehicleEF	MHD	0.04	0.05

tblVehicleEF	MHD	0.02	0.12
tblVehicleEF	MHD	0.32	0.04
tblVehicleEF	MHD	1.3860e-003	6.4600e-004
tblVehicleEF	MHD	0.01	9.5250e-003
tblVehicleEF	MHD	6.1600e-004	8.1000e-005
tblVehicleEF	MHD	1.3890e-003	6.4600e-004
tblVehicleEF	MHD	0.05	0.02
tblVehicleEF	MHD	0.04	0.02
tblVehicleEF	MHD	6.4000e-004	2.9500e-004
tblVehicleEF	MHD	0.04	0.06
tblVehicleEF	MHD	0.02	0.12
tblVehicleEF	MHD	0.35	0.05
tblVehicleEF	OBUS	0.01	9.1480e-003
tblVehicleEF	OBUS	9.9110e-003	8.5440e-003
tblVehicleEF	OBUS	0.03	0.03
tblVehicleEF	OBUS	0.26	0.48
tblVehicleEF	OBUS	0.63	0.98
tblVehicleEF	OBUS	6.27	2.73
tblVehicleEF	OBUS	70.35	66.56
tblVehicleEF	OBUS	1,121.50	1,475.42
tblVehicleEF	OBUS	70.70	21.88
tblVehicleEF	OBUS	0.28	0.29
tblVehicleEF	OBUS	0.97	1.13
tblVehicleEF	OBUS	6.4000e-005	5.0000e-004
tblVehicleEF	OBUS	4.6440e-003	0.01
tblVehicleEF	OBUS	9.2900e-004	2.3000e-004
tblVehicleEF	OBUS	6.1000e-005	4.7800e-004

tblVehicleEF	OBUS	4.4220e-003	0.01
tblVehicleEF	OBUS	8.5400e-004	2.1200e-004
tblVehicleEF	OBUS	2.1800e-003	2.7870e-003
tblVehicleEF	OBUS	0.02	0.03
tblVehicleEF	OBUS	0.04	0.05
tblVehicleEF	OBUS	9.3100e-004	1.1430e-003
tblVehicleEF	OBUS	0.04	0.06
tblVehicleEF	OBUS	0.05	0.31
tblVehicleEF	OBUS	0.38	0.13
tblVehicleEF	OBUS	6.8400e-004	6.3600e-004
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	8.1700e-004	2.1700e-004
tblVehicleEF	OBUS	2.1800e-003	2.7870e-003
tblVehicleEF	OBUS	0.02	0.03
tblVehicleEF	OBUS	0.05	0.07
tblVehicleEF	OBUS	9.3100e-004	1.1430e-003
tblVehicleEF	OBUS	0.06	0.07
tblVehicleEF	OBUS	0.05	0.31
tblVehicleEF	OBUS	0.42	0.14
tblVehicleEF	OBUS	0.01	9.2020e-003
tblVehicleEF	OBUS	0.01	8.7760e-003
tblVehicleEF	OBUS	0.03	0.02
tblVehicleEF	OBUS	0.26	0.47
tblVehicleEF	OBUS	0.65	1.01
tblVehicleEF	OBUS	5.74	2.51
tblVehicleEF	OBUS	73.50	66.43
tblVehicleEF	OBUS	1,121.50	1,475.46

tblVehicleEF	OBUS	70.70	21.50
tblVehicleEF	OBUS	0.29	0.28
tblVehicleEF	OBUS	0.90	1.04
tblVehicleEF	OBUS	5.4000e-005	4.2500e-004
tblVehicleEF	OBUS	4.6440e-003	0.01
tblVehicleEF	OBUS	9.2900e-004	2.3000e-004
tblVehicleEF	OBUS	5.1000e-005	4.0700e-004
tblVehicleEF	OBUS	4.4220e-003	0.01
tblVehicleEF	OBUS	8.5400e-004	2.1200e-004
tblVehicleEF	OBUS	4.2350e-003	5.4310e-003
tblVehicleEF	OBUS	0.02	0.03
tblVehicleEF	OBUS	0.03	0.05
tblVehicleEF	OBUS	2.1330e-003	2.6360e-003
tblVehicleEF	OBUS	0.05	0.06
tblVehicleEF	OBUS	0.05	0.31
tblVehicleEF	OBUS	0.36	0.12
tblVehicleEF	OBUS	7.1400e-004	6.3500e-004
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	8.0800e-004	2.1300e-004
tblVehicleEF	OBUS	4.2350e-003	5.4310e-003
tblVehicleEF	OBUS	0.02	0.03
tblVehicleEF	OBUS	0.05	0.07
tblVehicleEF	OBUS	2.1330e-003	2.6360e-003
tblVehicleEF	OBUS	0.06	0.08
tblVehicleEF	OBUS	0.05	0.31
tblVehicleEF	OBUS	0.40	0.14
tblVehicleEF	OBUS	0.01	9.1130e-003

tblVehicleEF	OBUS	9.9380e-003	8.5700e-003
tblVehicleEF	OBUS	0.03	0.03
tblVehicleEF	OBUS	0.28	0.49
tblVehicleEF	OBUS	0.63	0.99
tblVehicleEF	OBUS	6.22	2.71
tblVehicleEF	OBUS	66.00	66.75
tblVehicleEF	OBUS	1,121.50	1,475.42
tblVehicleEF	OBUS	70.70	21.85
tblVehicleEF	OBUS	0.27	0.30
tblVehicleEF	OBUS	0.96	1.11
tblVehicleEF	OBUS	7.7000e-005	6.0400e-004
tblVehicleEF	OBUS	4.6440e-003	0.01
tblVehicleEF	OBUS	9.2900e-004	2.3000e-004
tblVehicleEF	OBUS	7.4000e-005	5.7800e-004
tblVehicleEF	OBUS	4.4220e-003	0.01
tblVehicleEF	OBUS	8.5400e-004	2.1200e-004
tblVehicleEF	OBUS	2.3200e-003	3.0070e-003
tblVehicleEF	OBUS	0.02	0.03
tblVehicleEF	OBUS	0.04	0.05
tblVehicleEF	OBUS	9.4100e-004	1.1540e-003
tblVehicleEF	OBUS	0.04	0.06
tblVehicleEF	OBUS	0.05	0.33
tblVehicleEF	OBUS	0.38	0.13
tblVehicleEF	OBUS	6.4200e-004	6.3800e-004
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	8.1600e-004	2.1600e-004
tblVehicleEF	OBUS	2.3200e-003	3.0070e-003

tblVehicleEF	OBUS	0.02	0.03
tblVehicleEF	OBUS	0.05	0.06
tblVehicleEF	OBUS	9.4100e-004	1.1540e-003
tblVehicleEF	OBUS	0.06	0.08
tblVehicleEF	OBUS	0.05	0.33
tblVehicleEF	OBUS	0.42	0.14
tblVehicleEF	SBUS	0.84	0.04
tblVehicleEF	SBUS	0.01	6.8550e-003
tblVehicleEF	SBUS	0.07	4.0770e-003
tblVehicleEF	SBUS	5.71	1.90
tblVehicleEF	SBUS	0.65	0.58
tblVehicleEF	SBUS	5.33	0.55
tblVehicleEF	SBUS	1,258.13	336.22
tblVehicleEF	SBUS	1,136.31	1,128.72
tblVehicleEF	SBUS	37.11	3.21
tblVehicleEF	SBUS	11.70	3.35
tblVehicleEF	SBUS	4.77	5.07
tblVehicleEF	SBUS	0.01	4.0350e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.03	0.03
tblVehicleEF	SBUS	5.1700e-004	3.0000e-005
tblVehicleEF	SBUS	0.01	3.8600e-003
tblVehicleEF	SBUS	2.7560e-003	2.7660e-003
tblVehicleEF	SBUS	0.03	0.03
tblVehicleEF	SBUS	4.7500e-004	2.8000e-005
tblVehicleEF	SBUS	2.9260e-003	7.3800e-004
tblVehicleEF	SBUS	0.02	5.5390e-003

tblVehicleEF	SBUS	0.68	0.20
tblVehicleEF	SBUS	1.3050e-003	3.4800e-004
tblVehicleEF	SBUS	0.11	0.10
tblVehicleEF	SBUS	9.3510e-003	0.04
tblVehicleEF	SBUS	0.27	0.02
tblVehicleEF	SBUS	0.01	3.1960e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	4.6300e-004	3.2000e-005
tblVehicleEF	SBUS	2.9260e-003	7.3800e-004
tblVehicleEF	SBUS	0.02	5.5390e-003
tblVehicleEF	SBUS	0.97	0.28
tblVehicleEF	SBUS	1.3050e-003	3.4800e-004
tblVehicleEF	SBUS	0.13	0.11
tblVehicleEF	SBUS	9.3510e-003	0.04
tblVehicleEF	SBUS	0.30	0.03
tblVehicleEF	SBUS	0.84	0.04
tblVehicleEF	SBUS	0.01	6.9390e-003
tblVehicleEF	SBUS	0.06	3.3780e-003
tblVehicleEF	SBUS	5.56	1.86
tblVehicleEF	SBUS	0.66	0.59
tblVehicleEF	SBUS	3.65	0.39
tblVehicleEF	SBUS	1,322.00	344.13
tblVehicleEF	SBUS	1,136.31	1,128.74
tblVehicleEF	SBUS	37.11	2.94
tblVehicleEF	SBUS	12.08	3.42
tblVehicleEF	SBUS	4.47	4.75
tblVehicleEF	SBUS	0.01	3.4090e-003

tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.03	0.03
tblVehicleEF	SBUS	5.1700e-004	3.0000e-005
tblVehicleEF	SBUS	9.6490e-003	3.2620e-003
tblVehicleEF	SBUS	2.7560e-003	2.7660e-003
tblVehicleEF	SBUS	0.03	0.03
tblVehicleEF	SBUS	4.7500e-004	2.8000e-005
tblVehicleEF	SBUS	5.6170e-003	1.3280e-003
tblVehicleEF	SBUS	0.02	5.8520e-003
tblVehicleEF	SBUS	0.67	0.20
tblVehicleEF	SBUS	2.8800e-003	6.7400e-004
tblVehicleEF	SBUS	0.11	0.10
tblVehicleEF	SBUS	8.5310e-003	0.03
tblVehicleEF	SBUS	0.22	0.02
tblVehicleEF	SBUS	0.01	3.2700e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	4.3500e-004	2.9000e-005
tblVehicleEF	SBUS	5.6170e-003	1.3280e-003
tblVehicleEF	SBUS	0.02	5.8520e-003
tblVehicleEF	SBUS	0.97	0.28
tblVehicleEF	SBUS	2.8800e-003	6.7400e-004
tblVehicleEF	SBUS	0.13	0.12
tblVehicleEF	SBUS	8.5310e-003	0.03
tblVehicleEF	SBUS	0.24	0.02
tblVehicleEF	SBUS	0.84	0.04
tblVehicleEF	SBUS	0.01	6.8510e-003
tblVehicleEF	SBUS	0.07	4.1760e-003

tblVehicleEF	SBUS	5.91	1.95
tblVehicleEF	SBUS	0.65	0.58
tblVehicleEF	SBUS	5.37	0.57
tblVehicleEF	SBUS	1,169.92	325.30
tblVehicleEF	SBUS	1,136.31	1,128.72
tblVehicleEF	SBUS	37.11	3.24
tblVehicleEF	SBUS	11.19	3.26
tblVehicleEF	SBUS	4.69	4.99
tblVehicleEF	SBUS	0.01	4.8980e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.03	0.03
tblVehicleEF	SBUS	5.1700e-004	3.0000e-005
tblVehicleEF	SBUS	0.01	4.6860e-003
tblVehicleEF	SBUS	2.7560e-003	2.7660e-003
tblVehicleEF	SBUS	0.03	0.03
tblVehicleEF	SBUS	4.7500e-004	2.8000e-005
tblVehicleEF	SBUS	2.9580e-003	7.2600e-004
tblVehicleEF	SBUS	0.02	5.8800e-003
tblVehicleEF	SBUS	0.68	0.20
tblVehicleEF	SBUS	1.2820e-003	3.5300e-004
tblVehicleEF	SBUS	0.11	0.10
tblVehicleEF	SBUS	0.01	0.05
tblVehicleEF	SBUS	0.28	0.02
tblVehicleEF	SBUS	0.01	3.0930e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	4.6400e-004	3.2000e-005
tblVehicleEF	SBUS	2.9580e-003	7.2600e-004

tblVehicleEF	SBUS	0.02	5.8800e-003
tblVehicleEF	SBUS	0.98	0.28
tblVehicleEF	SBUS	1.2820e-003	3.5300e-004
tblVehicleEF	SBUS	0.13	0.11
tblVehicleEF	SBUS	0.01	0.05
tblVehicleEF	SBUS	0.31	0.03
tblVehicleEF	UBUS	1.83	4.19
tblVehicleEF	UBUS	0.08	0.02
tblVehicleEF	UBUS	9.26	32.67
tblVehicleEF	UBUS	14.34	1.43
tblVehicleEF	UBUS	1,846.39	1,724.94
tblVehicleEF	UBUS	136.37	16.90
tblVehicleEF	UBUS	5.87	0.37
tblVehicleEF	UBUS	0.52	0.08
tblVehicleEF	UBUS	0.01	0.03
tblVehicleEF	UBUS	0.07	2.6830e-003
tblVehicleEF	UBUS	1.4030e-003	1.8900e-004
tblVehicleEF	UBUS	0.22	0.03
tblVehicleEF	UBUS	3.0000e-003	6.3130e-003
tblVehicleEF	UBUS	0.06	2.5510e-003
tblVehicleEF	UBUS	1.2900e-003	1.7400e-004
tblVehicleEF	UBUS	8.0860e-003	1.5320e-003
tblVehicleEF	UBUS	0.11	8.4710e-003
tblVehicleEF	UBUS	3.9450e-003	6.5200e-004
tblVehicleEF	UBUS	0.61	0.06
tblVehicleEF	UBUS	0.02	0.04
tblVehicleEF	UBUS	1.15	0.06

tblVehicleEF	UBUS	0.01	3.8820e-003
tblVehicleEF	UBUS	1.6240e-003	1.6700e-004
tblVehicleEF	UBUS	8.0860e-003	1.5320e-003
tblVehicleEF	UBUS	0.11	8.4710e-003
tblVehicleEF	UBUS	3.9450e-003	6.5200e-004
tblVehicleEF	UBUS	2.50	4.28
tblVehicleEF	UBUS	0.02	0.04
tblVehicleEF	UBUS	1.25	0.07
tblVehicleEF	UBUS	1.83	4.19
tblVehicleEF	UBUS	0.08	0.01
tblVehicleEF	UBUS	9.36	32.67
tblVehicleEF	UBUS	11.74	1.17
tblVehicleEF	UBUS	1,846.39	1,724.94
tblVehicleEF	UBUS	136.37	16.47
tblVehicleEF	UBUS	5.45	0.37
tblVehicleEF	UBUS	0.52	0.08
tblVehicleEF	UBUS	0.01	0.03
tblVehicleEF	UBUS	0.07	2.6830e-003
tblVehicleEF	UBUS	1.4030e-003	1.8900e-004
tblVehicleEF	UBUS	0.22	0.03
tblVehicleEF	UBUS	3.0000e-003	6.3130e-003
tblVehicleEF	UBUS	0.06	2.5510e-003
tblVehicleEF	UBUS	1.2900e-003	1.7400e-004
tblVehicleEF	UBUS	0.02	2.9020e-003
tblVehicleEF	UBUS	0.14	0.01
tblVehicleEF	UBUS	9.3320e-003	1.4770e-003
tblVehicleEF	UBUS	0.62	0.06

tblVehicleEF	UBUS	0.02	0.04
tblVehicleEF	UBUS	1.02	0.06
tblVehicleEF	UBUS	0.01	3.8820e-003
tblVehicleEF	UBUS	1.5790e-003	1.6300e-004
tblVehicleEF	UBUS	0.02	2.9020e-003
tblVehicleEF	UBUS	0.14	0.01
tblVehicleEF	UBUS	9.3320e-003	1.4770e-003
tblVehicleEF	UBUS	2.52	4.28
tblVehicleEF	UBUS	0.02	0.04
tblVehicleEF	UBUS	1.12	0.06
tblVehicleEF	UBUS	1.83	4.19
tblVehicleEF	UBUS	0.08	0.02
tblVehicleEF	UBUS	9.27	32.67
tblVehicleEF	UBUS	13.86	1.39
tblVehicleEF	UBUS	1,846.39	1,724.94
tblVehicleEF	UBUS	136.37	16.85
tblVehicleEF	UBUS	5.76	0.37
tblVehicleEF	UBUS	0.52	0.08
tblVehicleEF	UBUS	0.01	0.03
tblVehicleEF	UBUS	0.07	2.6830e-003
tblVehicleEF	UBUS	1.4030e-003	1.8900e-004
tblVehicleEF	UBUS	0.22	0.03
tblVehicleEF	UBUS	3.0000e-003	6.3130e-003
tblVehicleEF	UBUS	0.06	2.5510e-003
tblVehicleEF	UBUS	1.2900e-003	1.7400e-004
tblVehicleEF	UBUS	9.2250e-003	1.6220e-003
tblVehicleEF	UBUS	0.14	9.7130e-003

tblVehicleEF	UBUS	4.1190e-003	6.4800e-004
tblVehicleEF	UBUS	0.61	0.06
tblVehicleEF	UBUS	0.03	0.04
tblVehicleEF	UBUS	1.13	0.06
tblVehicleEF	UBUS	0.01	3.8820e-003
tblVehicleEF	UBUS	1.6160e-003	1.6700e-004
tblVehicleEF	UBUS	9.2250e-003	1.6220e-003
tblVehicleEF	UBUS	0.14	9.7130e-003
tblVehicleEF	UBUS	4.1190e-003	6.4800e-004
tblVehicleEF	UBUS	2.50	4.28
tblVehicleEF	UBUS	0.03	0.04
tblVehicleEF	UBUS	1.24	0.07
tblVehicleTrips	CC_TL	8.40	0.00
tblVehicleTrips	CC_TL	8.40	0.00
tblVehicleTrips	CC_TL	8.40	0.00
tblVehicleTrips	CC_TL	8.40	0.00
tblVehicleTrips	CNW_TL	6.90	0.00
tblVehicleTrips	CNW_TL	6.90	0.00
tblVehicleTrips	CNW_TL	6.90	0.00
tblVehicleTrips	CNW_TL	6.90	0.00
tblVehicleTrips	CNW_TTP	41.00	0.00
tblVehicleTrips	CW_TL	16.60	0.00
tblVehicleTrips	CW_TL	16.60	0.00
tblVehicleTrips	CW_TL	16.60	0.00
tblVehicleTrips	CW_TL	16.60	0.00
tblVehicleTrips	CW_TTP	59.00	0.00
tblVehicleTrips	DV_TP	5.00	0.00

tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PR_TP	92.00	0.00
tblVehicleTrips	ST_TR	1.68	0.00
tblVehicleTrips	SU_TR	1.68	0.00
tblVehicleTrips	WD_TR	1.68	0.00
tblWater	IndoorWaterUseRate	174,457,312.50	0.00

2.0 Emissions Summary

2.1 Overall Construction

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2021	0.4099	4.1171	2.5998	7.8500e-003	0.7102	0.1473	0.8575	0.2577	0.1363	0.3940	0.0000	707.9569	707.9569	0.1234	0.0000	711.0415
2022	2.2781	3.5296	3.0400	0.0110	0.5496	0.0958	0.6454	0.1481	0.0895	0.2376	0.0000	1,004.7337	1,004.7337	0.1069	0.0000	1,007.4053
Maximum	**2.2781**	**4.1171**	**3.0400**	**0.0110**	**0.7102**	**0.1473**	**0.8575**	**0.2577**	**0.1363**	**0.3940**	**0.0000**	**1,004.7337**	**1,004.7337**	**0.1234**	**0.0000**	**1,007.4053**

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2021	0.3480	3.5841	2.7534	7.8500e-003	0.4317	0.1224	0.5541	0.1422	0.1148	0.2570	0.0000	707.9565	707.9565	0.1234	0.0000	711.0411
2022	2.2543	3.3477	3.1889	0.0110	0.5496	0.0890	0.6386	0.1481	0.0842	0.2322	0.0000	1,004.7334	1,004.7334	0.1069	0.0000	1,007.4049
Maximum	**2.2543**	**3.5841**	**3.1889**	**0.0110**	**0.5496**	**0.1224**	**0.6386**	**0.1481**	**0.1148**	**0.2570**	**0.0000**	**1,004.7334**	**1,004.7334**	**0.1234**	**0.0000**	**1,007.4049**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**3.19**	**9.35**	**-5.36**	**0.00**	**22.11**	**13.03**	**20.64**	**28.46**	**11.89**	**22.53**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	6-1-2021	8-31-2021	1.6765	1.3248
2	9-1-2021	11-30-2021	2.0774	1.8895
3	12-1-2021	2-28-2022	1.9849	1.8607
4	3-1-2022	5-31-2022	3.6559	3.5441
5	6-1-2022	8-31-2022	0.9210	0.8967
		Highest	3.6559	3.5441

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	3.1335	2.0000e-004	0.0218	0.0000		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005	0.0000	0.0424	0.0424	1.1000e-004	0.0000	0.0452
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Waste						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Water						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**3.1335**	**2.0000e-004**	**0.0218**	**0.0000**	**0.0000**	**8.0000e-005**	**8.0000e-005**	**0.0000**	**8.0000e-005**	**8.0000e-005**	**0.0000**	**0.0424**	**0.0424**	**1.1000e-004**	**0.0000**	**0.0452**

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	3.1335	2.0000e-004	0.0218	0.0000		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005	0.0000	0.0424	0.0424	1.1000e-004	0.0000	0.0452
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Waste						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Water						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**3.1335**	**2.0000e-004**	**0.0218**	**0.0000**	**0.0000**	**8.0000e-005**	**8.0000e-005**	**0.0000**	**8.0000e-005**	**8.0000e-005**	**0.0000**	**0.0424**	**0.0424**	**1.1000e-004**	**0.0000**	**0.0452**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

3.0 Construction Detail

Construction Phase

Fontana Foothills Commerce Center (Construction - Mitigated) - San Bernardino-South Coast County, Annual

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	6/1/2021	7/12/2021	5	30	
2	Site Preparation	Site Preparation	7/13/2021	8/9/2021	5	20	
3	Grading	Grading	8/10/2021	10/11/2021	5	45	
4	Building Construction	Building Construction	10/12/2021	6/20/2022	5	180	
5	Architectural Coating	Architectural Coating	3/15/2022	6/20/2022	5	70	
6	Paving	Paving	5/3/2022	6/20/2022	5	35	

Acres of Grading (Site Preparation Phase): 70

Acres of Grading (Grading Phase): 180

Acres of Paving: 16.3

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 1,131,612; Non-Residential Outdoor: 377,204; Striped Parking Area: 42,608 (Architectural Coating – sqft)

OffRoad Equipment

Fontana Foothills Commerce Center (Construction - Mitigated) - San Bernardino-South Coast County, Annual

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Excavators	3	8.00	158	0.38
Demolition	Rubber Tired Dozers	2	8.00	247	0.40
Site Preparation	Crawler Tractors	4	8.00	212	0.43
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Grading	Crawler Tractors	2	8.00	212	0.43
Grading	Excavators	2	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
Grading	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Building Construction	Cranes	1	8.00	231	0.29
Building Construction	Crawler Tractors	3	8.00	212	0.43
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Architectural Coating	Air Compressors	1	8.00	78	0.48
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	6	15.00	0.00	73.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	615.00	240.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	123.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Water Exposed Area

3.2 Demolition - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					7.9400e-003	0.0000	7.9400e-003	1.2000e-003	0.0000	1.2000e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0475	0.4716	0.3235	5.8000e-004		0.0233	0.0233		0.0216	0.0216	0.0000	51.0012	51.0012	0.0144	0.0000	51.3601
Total	**0.0475**	**0.4716**	**0.3235**	**5.8000e-004**	**7.9400e-003**	**0.0233**	**0.0312**	**1.2000e-003**	**0.0216**	**0.0228**	**0.0000**	**51.0012**	**51.0012**	**0.0144**	**0.0000**	**51.3601**

3.2 Demolition - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	2.2000e-004	8.5200e-003	1.3700e-003	3.0000e-005	6.3000e-004	2.0000e-005	6.5000e-004	1.7000e-004	2.0000e-005	2.0000e-004	0.0000	2.7023	2.7023	1.5000e-004	0.0000	2.7061
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.0400e-003	7.8000e-004	8.0200e-003	2.0000e-005	2.4700e-003	2.0000e-005	2.4800e-003	6.6000e-004	1.0000e-005	6.7000e-004	0.0000	2.0473	2.0473	6.0000e-005	0.0000	2.0487
Total	**1.2600e-003**	**9.3000e-003**	**9.3900e-003**	**5.0000e-005**	**3.1000e-003**	**4.0000e-005**	**3.1300e-003**	**8.3000e-004**	**3.0000e-005**	**8.7000e-004**	**0.0000**	**4.7496**	**4.7496**	**2.1000e-004**	**0.0000**	**4.7548**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					3.1000e-003	0.0000	3.1000e-003	4.7000e-004	0.0000	4.7000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0349	0.3677	0.3309	5.8000e-004		0.0176	0.0176		0.0166	0.0166	0.0000	51.0011	51.0011	0.0144	0.0000	51.3600
Total	**0.0349**	**0.3677**	**0.3309**	**5.8000e-004**	**3.1000e-003**	**0.0176**	**0.0207**	**4.7000e-004**	**0.0166**	**0.0170**	**0.0000**	**51.0011**	**51.0011**	**0.0144**	**0.0000**	**51.3600**

3.2 Demolition - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	2.2000e-004	8.5200e-003	1.3700e-003	3.0000e-005	6.3000e-004	2.0000e-005	6.5000e-004	1.7000e-004	2.0000e-005	2.0000e-004	0.0000	2.7023	2.7023	1.5000e-004	0.0000	2.7061
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.0400e-003	7.8000e-004	8.0200e-003	2.0000e-005	2.4700e-003	2.0000e-005	2.4800e-003	6.6000e-004	1.0000e-005	6.7000e-004	0.0000	2.0473	2.0473	6.0000e-005	0.0000	2.0487
Total	**1.2600e-003**	**9.3000e-003**	**9.3900e-003**	**5.0000e-005**	**3.1000e-003**	**4.0000e-005**	**3.1300e-003**	**8.3000e-004**	**3.0000e-005**	**8.7000e-004**	**0.0000**	**4.7496**	**4.7496**	**2.1000e-004**	**0.0000**	**4.7548**

3.3 Site Preparation - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.2178	0.0000	0.2178	0.1033	0.0000	0.1033	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0534	0.6079	0.2185	5.7000e-004		0.0265	0.0265		0.0243	0.0243	0.0000	50.1084	50.1084	0.0162	0.0000	50.5135
Total	**0.0534**	**0.6079**	**0.2185**	**5.7000e-004**	**0.2178**	**0.0265**	**0.2442**	**0.1033**	**0.0243**	**0.1277**	**0.0000**	**50.1084**	**50.1084**	**0.0162**	**0.0000**	**50.5135**

3.3 Site Preparation - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	8.3000e-004	6.3000e-004	6.4100e-003	2.0000e-005	1.9700e-003	1.0000e-005	1.9900e-003	5.2000e-004	1.0000e-005	5.4000e-004	0.0000	1.6378	1.6378	5.0000e-005	0.0000	1.6390
Total	**8.3000e-004**	**6.3000e-004**	**6.4100e-003**	**2.0000e-005**	**1.9700e-003**	**1.0000e-005**	**1.9900e-003**	**5.2000e-004**	**1.0000e-005**	**5.4000e-004**	**0.0000**	**1.6378**	**1.6378**	**5.0000e-005**	**0.0000**	**1.6390**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0849	0.0000	0.0849	0.0403	0.0000	0.0403	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0346	0.4469	0.2566	5.7000e-004		0.0187	0.0187		0.0175	0.0175	0.0000	50.1083	50.1083	0.0162	0.0000	50.5135
Total	**0.0346**	**0.4469**	**0.2566**	**5.7000e-004**	**0.0849**	**0.0187**	**0.1036**	**0.0403**	**0.0175**	**0.0578**	**0.0000**	**50.1083**	**50.1083**	**0.0162**	**0.0000**	**50.5135**

3.3 Site Preparation - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	8.3000e-004	6.3000e-004	6.4100e-003	2.0000e-005	1.9700e-003	1.0000e-005	1.9900e-003	5.2000e-004	1.0000e-005	5.4000e-004	0.0000	1.6378	1.6378	5.0000e-005	0.0000	1.6390
Total	**8.3000e-004**	**6.3000e-004**	**6.4100e-003**	**2.0000e-005**	**1.9700e-003**	**1.0000e-005**	**1.9900e-003**	**5.2000e-004**	**1.0000e-005**	**5.4000e-004**	**0.0000**	**1.6378**	**1.6378**	**5.0000e-005**	**0.0000**	**1.6390**

3.4 Grading - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.2309	0.0000	0.2309	0.0848	0.0000	0.0848	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1107	1.2723	0.7026	1.6100e-003		0.0514	0.0514		0.0473	0.0473	0.0000	141.3705	141.3705	0.0457	0.0000	142.5135
Total	**0.1107**	**1.2723**	**0.7026**	**1.6100e-003**	**0.2309**	**0.0514**	**0.2824**	**0.0848**	**0.0473**	**0.1321**	**0.0000**	**141.3705**	**141.3705**	**0.0457**	**0.0000**	**142.5135**

3.4 Grading - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.0700e-003	1.5700e-003	0.0160	5.0000e-005	4.9300e-003	3.0000e-005	4.9700e-003	1.3100e-003	3.0000e-005	1.3400e-003	0.0000	4.0946	4.0946	1.1000e-004	0.0000	4.0974
Total	**2.0700e-003**	**1.5700e-003**	**0.0160**	**5.0000e-005**	**4.9300e-003**	**3.0000e-005**	**4.9700e-003**	**1.3100e-003**	**3.0000e-005**	**1.3400e-003**	**0.0000**	**4.0946**	**4.0946**	**1.1000e-004**	**0.0000**	**4.0974**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0901	0.0000	0.0901	0.0331	0.0000	0.0331	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0942	1.1302	0.7427	1.6100e-003		0.0448	0.0448		0.0416	0.0416	0.0000	141.3703	141.3703	0.0457	0.0000	142.5134
Total	**0.0942**	**1.1302**	**0.7427**	**1.6100e-003**	**0.0901**	**0.0448**	**0.1349**	**0.0331**	**0.0416**	**0.0746**	**0.0000**	**141.3703**	**141.3703**	**0.0457**	**0.0000**	**142.5134**

3.4 Grading - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.0700e-003	1.5700e-003	0.0160	5.0000e-005	4.9300e-003	3.0000e-005	4.9700e-003	1.3100e-003	3.0000e-005	1.3400e-003	0.0000	4.0946	4.0946	1.1000e-004	0.0000	4.0974
Total	**2.0700e-003**	**1.5700e-003**	**0.0160**	**5.0000e-005**	**4.9300e-003**	**3.0000e-005**	**4.9700e-003**	**1.3100e-003**	**3.0000e-005**	**1.3400e-003**	**0.0000**	**4.0946**	**4.0946**	**1.1000e-004**	**0.0000**	**4.0974**

3.5 Building Construction - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0919	1.0020	0.5368	1.2700e-003		0.0436	0.0436		0.0406	0.0406	0.0000	110.1102	110.1102	0.0300	0.0000	110.8601
Total	**0.0919**	**1.0020**	**0.5368**	**1.2700e-003**		**0.0436**	**0.0436**		**0.0406**	**0.0406**	**0.0000**	**110.1102**	**110.1102**	**0.0300**	**0.0000**	**110.8601**

3.5 Building Construction - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0188	0.6888	0.1402	1.8800e-003	0.0446	1.1800e-003	0.0458	0.0129	1.1300e-003	0.0140	0.0000	179.8060	179.8060	0.0121	0.0000	180.1089
Worker	0.0835	0.0631	0.6464	1.8300e-003	0.1989	1.3000e-003	0.2002	0.0528	1.1900e-003	0.0540	0.0000	165.0787	165.0787	4.6200e-003	0.0000	165.1942
Total	**0.1023**	**0.7519**	**0.7866**	**3.7100e-003**	**0.2436**	**2.4800e-003**	**0.2460**	**0.0657**	**2.3200e-003**	**0.0681**	**0.0000**	**344.8847**	**344.8847**	**0.0167**	**0.0000**	**345.3031**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0779	0.8759	0.6047	1.2700e-003		0.0389	0.0389		0.0368	0.0368	0.0000	110.1100	110.1100	0.0300	0.0000	110.8600
Total	**0.0779**	**0.8759**	**0.6047**	**1.2700e-003**		**0.0389**	**0.0389**		**0.0368**	**0.0368**	**0.0000**	**110.1100**	**110.1100**	**0.0300**	**0.0000**	**110.8600**

3.5 Building Construction - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0188	0.6888	0.1402	1.8800e-003	0.0446	1.1800e-003	0.0458	0.0129	1.1300e-003	0.0140	0.0000	179.8060	179.8060	0.0121	0.0000	180.1089
Worker	0.0835	0.0631	0.6464	1.8300e-003	0.1989	1.3000e-003	0.2002	0.0528	1.1900e-003	0.0540	0.0000	165.0787	165.0787	4.6200e-003	0.0000	165.1942
Total	**0.1023**	**0.7519**	**0.7866**	**3.7100e-003**	**0.2436**	**2.4800e-003**	**0.2460**	**0.0657**	**2.3200e-003**	**0.0681**	**0.0000**	**344.8847**	**344.8847**	**0.0167**	**0.0000**	**345.3031**

3.5 Building Construction - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1692	1.8007	1.0690	2.6000e-003		0.0771	0.0771		0.0720	0.0720	0.0000	225.6052	225.6052	0.0612	0.0000	227.1355
Total	**0.1692**	**1.8007**	**1.0690**	**2.6000e-003**		**0.0771**	**0.0771**		**0.0720**	**0.0720**	**0.0000**	**225.6052**	**225.6052**	**0.0612**	**0.0000**	**227.1355**

3.5 Building Construction - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0359	1.3379	0.2661	3.8200e-003	0.0915	2.0400e-003	0.0936	0.0264	1.9500e-003	0.0284	0.0000	365.7507	365.7507	0.0240	0.0000	366.3506
Worker	0.1601	0.1164	1.2158	3.6100e-003	0.4080	2.5800e-003	0.4106	0.1084	2.3800e-003	0.1107	0.0000	326.3522	326.3522	8.5000e-003	0.0000	326.5647
Total	**0.1960**	**1.4542**	**1.4819**	**7.4300e-003**	**0.4995**	**4.6200e-003**	**0.5041**	**0.1348**	**4.3300e-003**	**0.1391**	**0.0000**	**692.1029**	**692.1029**	**0.0325**	**0.0000**	**692.9153**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1453	1.6188	1.2180	2.6000e-003		0.0703	0.0703		0.0666	0.0666	0.0000	225.6050	225.6050	0.0612	0.0000	227.1352
Total	**0.1453**	**1.6188**	**1.2180**	**2.6000e-003**		**0.0703**	**0.0703**		**0.0666**	**0.0666**	**0.0000**	**225.6050**	**225.6050**	**0.0612**	**0.0000**	**227.1352**

3.5 Building Construction - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0359	1.3379	0.2661	3.8200e-003	0.0915	2.0400e-003	0.0936	0.0264	1.9500e-003	0.0284	0.0000	365.7507	365.7507	0.0240	0.0000	366.3506
Worker	0.1601	0.1164	1.2158	3.6100e-003	0.4080	2.5800e-003	0.4106	0.1084	2.3800e-003	0.1107	0.0000	326.3522	326.3522	8.5000e-003	0.0000	326.5647
Total	**0.1960**	**1.4542**	**1.4819**	**7.4300e-003**	**0.4995**	**4.6200e-003**	**0.5041**	**0.1348**	**4.3300e-003**	**0.1391**	**0.0000**	**692.1029**	**692.1029**	**0.0325**	**0.0000**	**692.9153**

3.6 Architectural Coating - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	1.8471					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	9.5500e-003	0.0657	0.0846	1.4000e-004		3.8100e-003	3.8100e-003		3.8100e-003	3.8100e-003	0.0000	11.9152	11.9152	7.8000e-004	0.0000	11.9346
Total	**1.8566**	**0.0657**	**0.0846**	**1.4000e-004**		**3.8100e-003**	**3.8100e-003**		**3.8100e-003**	**3.8100e-003**	**0.0000**	**11.9152**	**11.9152**	**7.8000e-004**	**0.0000**	**11.9346**

3.6 Architectural Coating - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0185	0.0135	0.1407	4.2000e-004	0.0472	3.0000e-004	0.0475	0.0125	2.8000e-004	0.0128	0.0000	37.7598	37.7598	9.8000e-004	0.0000	37.7844
Total	**0.0185**	**0.0135**	**0.1407**	**4.2000e-004**	**0.0472**	**3.0000e-004**	**0.0475**	**0.0125**	**2.8000e-004**	**0.0128**	**0.0000**	**37.7598**	**37.7598**	**9.8000e-004**	**0.0000**	**37.7844**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	1.8471					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	9.5500e-003	0.0657	0.0846	1.4000e-004		3.8100e-003	3.8100e-003		3.8100e-003	3.8100e-003	0.0000	11.9152	11.9152	7.8000e-004	0.0000	11.9346
Total	**1.8566**	**0.0657**	**0.0846**	**1.4000e-004**		**3.8100e-003**	**3.8100e-003**		**3.8100e-003**	**3.8100e-003**	**0.0000**	**11.9152**	**11.9152**	**7.8000e-004**	**0.0000**	**11.9346**

3.6 Architectural Coating - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0185	0.0135	0.1407	4.2000e-004	0.0472	3.0000e-004	0.0475	0.0125	2.8000e-004	0.0128	0.0000	37.7598	37.7598	9.8000e-004	0.0000	37.7844
Total	**0.0185**	**0.0135**	**0.1407**	**4.2000e-004**	**0.0472**	**3.0000e-004**	**0.0475**	**0.0125**	**2.8000e-004**	**0.0128**	**0.0000**	**37.7598**	**37.7598**	**9.8000e-004**	**0.0000**	**37.7844**

3.7 Paving - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0193	0.1947	0.2552	4.0000e-004		9.9400e-003	9.9400e-003		9.1400e-003	9.1400e-003	0.0000	35.0482	35.0482	0.0113	0.0000	35.3316
Paving	0.0174					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0367**	**0.1947**	**0.2552**	**4.0000e-004**		**9.9400e-003**	**9.9400e-003**		**9.1400e-003**	**9.1400e-003**	**0.0000**	**35.0482**	**35.0482**	**0.0113**	**0.0000**	**35.3316**

3.7 Paving - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.1300e-003	8.2000e-004	8.5800e-003	3.0000e-005	2.8800e-003	2.0000e-005	2.9000e-003	7.6000e-004	2.0000e-005	7.8000e-004	0.0000	2.3024	2.3024	6.0000e-005	0.0000	2.3039
Total	**1.1300e-003**	**8.2000e-004**	**8.5800e-003**	**3.0000e-005**	**2.8800e-003**	**2.0000e-005**	**2.9000e-003**	**7.6000e-004**	**2.0000e-005**	**7.8000e-004**	**0.0000**	**2.3024**	**2.3024**	**6.0000e-005**	**0.0000**	**2.3039**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0193	0.1947	0.2552	4.0000e-004		9.9400e-003	9.9400e-003		9.1400e-003	9.1400e-003	0.0000	35.0482	35.0482	0.0113	0.0000	35.3316
Paving	0.0174					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0367**	**0.1947**	**0.2552**	**4.0000e-004**		**9.9400e-003**	**9.9400e-003**		**9.1400e-003**	**9.1400e-003**	**0.0000**	**35.0482**	**35.0482**	**0.0113**	**0.0000**	**35.3316**

3.7 Paving - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.1300e-003	8.2000e-004	8.5800e-003	3.0000e-005	2.8800e-003	2.0000e-005	2.9000e-003	7.6000e-004	2.0000e-005	7.8000e-004	0.0000	2.3024	2.3024	6.0000e-005	0.0000	2.3039
Total	**1.1300e-003**	**8.2000e-004**	**8.5800e-003**	**3.0000e-005**	**2.8800e-003**	**2.0000e-005**	**2.9000e-003**	**7.6000e-004**	**2.0000e-005**	**7.8000e-004**	**0.0000**	**2.3024**	**2.3024**	**6.0000e-005**	**0.0000**	**2.3039**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Other Asphalt Surfaces	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Unrefrigerated Warehouse-No Rail	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0
Other Non-Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0
Unrefrigerated Warehouse-No	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Other Asphalt Surfaces	0.553113	0.036408	0.180286	0.116335	0.016165	0.005101	0.018218	0.063797	0.001357	0.001565	0.005903	0.000808	0.000944
Other Non-Asphalt Surfaces	0.553113	0.036408	0.180286	0.116335	0.016165	0.005101	0.018218	0.063797	0.001357	0.001565	0.005903	0.000808	0.000944
Parking Lot	0.553113	0.036408	0.180286	0.116335	0.016165	0.005101	0.018218	0.063797	0.001357	0.001565	0.005903	0.000808	0.000944
Unrefrigerated Warehouse-No Rail	0.553113	0.036408	0.180286	0.116335	0.016165	0.005101	0.018218	0.063797	0.001357	0.001565	0.005903	0.000808	0.000944

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
NaturalGas Mitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
NaturalGas Unmitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	0	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**

5.3 Energy by Land Use - Electricity

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	0	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	3.1335	2.0000e-004	0.0218	0.0000		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005	0.0000	0.0424	0.0424	1.1000e-004	0.0000	0.0452
Unmitigated	3.1335	2.0000e-004	0.0218	0.0000		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005	0.0000	0.0424	0.0424	1.1000e-004	0.0000	0.0452

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.3595					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	2.7720					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	2.0300e-003	2.0000e-004	0.0218	0.0000		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005	0.0000	0.0424	0.0424	1.1000e-004	0.0000	0.0452
Total	**3.1335**	**2.0000e-004**	**0.0218**	**0.0000**		**8.0000e-005**	**8.0000e-005**		**8.0000e-005**	**8.0000e-005**	**0.0000**	**0.0424**	**0.0424**	**1.1000e-004**	**0.0000**	**0.0452**

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.3595					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	2.7720					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	2.0300e-003	2.0000e-004	0.0218	0.0000		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005	0.0000	0.0424	0.0424	1.1000e-004	0.0000	0.0452
Total	**3.1335**	**2.0000e-004**	**0.0218**	**0.0000**		**8.0000e-005**	**8.0000e-005**		**8.0000e-005**	**8.0000e-005**	**0.0000**	**0.0424**	**0.0424**	**1.1000e-004**	**0.0000**	**0.0452**

7.0 Water Detail

7.1 Mitigation Measures Water

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	0	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**

8.2 Waste by Land Use

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	0	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

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APPENDIX 3.2:

CALEEMOD ANNUAL OPERATIONAL (PASSENGER CARS) EMISSIONS MODEL OUTPUTS

Fontana Foothill Commerce Center (Operations - Passenger Cars)

San Bernardino-South Coast County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Unrefrigerated Warehouse-No Rail	754.41	1000sqft	17.32	754,408.00	0
Other Asphalt Surfaces	415.94	1000sqft	9.55	415,944.00	0
Other Non-Asphalt Surfaces	132.59	1000sqft	3.04	132,592.00	0
Parking Lot	404.00	Space	3.71	161,600.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	32
Climate Zone	10			**Operational Year**	2022
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	702.44	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Fontana Foothill Commerce Center (Operations - Passenger Cars) - San Bernardino-South Coast County, Annual

Project Characteristics -

Land Use - Unrefrigerated Warehouse - No Rail = High-Cube Short-Term Warehouse; Parking Lot = 404 Standard Spaces; Other Non-Asphalt Surfaces = Landscape area; Other Asphalt Surfaces = Balance

Construction Phase - Operations Run Only.

Off-road Equipment - Operations Run Only.

Trips and VMT - Operations Run Only.

Vehicle Trips - Trip Characteristics based on information provided in the Fontana Foothills Commcerce Center Traffic Impact Analysis report by Urban Crossroads, Inc.

Energy Use - The Project will design building shells and building components to meet 2019 Title 24 Standards which expects 30% less energy for nonresidential uses.

Operational Off-Road Equipment - Based on SCAQMD High Cube Warehouse Truck Trip Study White Paper Summary of Busniess Survey Results (2014)

Fleet Mix - Passenger Car Fleet Mix estimated based on the ratio of the vehicle classes in CalEEMod default fleet mix.

Vehicle Emission Factors - EMFAC2017

Vehicle Emission Factors - EMFAC2017

Vehicle Emission Factors - EMFAC2017

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	30.00	0.00
tblEnergyUse	LightingElect	1.17	0.82
tblEnergyUse	T24E	0.37	0.26
tblEnergyUse	T24NG	2.00	1.40
tblFleetMix	HHD	0.06	0.00
tblFleetMix	LDA	0.55	0.62
tblFleetMix	LDT1	0.04	0.04
tblFleetMix	LDT2	0.18	0.20
tblFleetMix	LHD1	0.02	0.00
tblFleetMix	LHD2	5.1010e-003	0.00
tblFleetMix	MCY	5.9030e-003	0.00
tblFleetMix	MDV	0.12	0.13

tblFleetMix	MH	9.4400e-004	0.00
tblFleetMix	MHD	0.02	0.00
tblFleetMix	OBUS	1.3570e-003	0.00
tblFleetMix	SBUS	8.0800e-004	0.00
tblFleetMix	UBUS	1.5650e-003	0.00
tblLandUse	LotAcreage	3.64	3.71
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOperationalOffRoadEquipment	OperDaysPerYear	260.00	365.00
tblOperationalOffRoadEquipment	OperFuelType	Diesel	CNG
tblOperationalOffRoadEquipment	OperHorsePower	97.00	200.00
tblOperationalOffRoadEquipment	OperHoursPerDay	8.00	4.00
tblOperationalOffRoadEquipment	OperOffRoadEquipmentNumber	0.00	3.00
tblVehicleEF	HHD	1.21	0.03
tblVehicleEF	HHD	0.04	0.06
tblVehicleEF	HHD	0.10	0.00
tblVehicleEF	HHD	3.29	8.22
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tblVehicleEF	HHD	1.82	2.2600e-003
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tblVehicleEF	HHD	2.50	2.77
tblVehicleEF	HHD	9.7780e-003	3.7640e-003
tblVehicleEF	HHD	0.06	0.06

tblVehicleEF	HHD	0.04	0.04
tblVehicleEF	HHD	0.01	0.03
tblVehicleEF	HHD	5.1000e-005	1.0000e-006
tblVehicleEF	HHD	9.3550e-003	3.6010e-003
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	8.8810e-003	8.9170e-003
tblVehicleEF	HHD	0.01	0.03
tblVehicleEF	HHD	4.7000e-005	1.0000e-006
tblVehicleEF	HHD	8.5000e-005	3.0000e-006
tblVehicleEF	HHD	3.1910e-003	1.0400e-004
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tblVehicleEF	HHD	5.2000e-005	2.0000e-006
tblVehicleEF	HHD	0.08	0.05
tblVehicleEF	HHD	2.1700e-004	5.2200e-004
tblVehicleEF	HHD	0.05	1.0000e-006
tblVehicleEF	HHD	0.07	0.01
tblVehicleEF	HHD	0.01	0.01
tblVehicleEF	HHD	8.6000e-005	0.00
tblVehicleEF	HHD	8.5000e-005	3.0000e-006
tblVehicleEF	HHD	3.1910e-003	1.0400e-004
tblVehicleEF	HHD	0.97	0.67
tblVehicleEF	HHD	5.2000e-005	2.0000e-006
tblVehicleEF	HHD	0.13	0.12
tblVehicleEF	HHD	2.1700e-004	5.2200e-004
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tblVehicleEF	HHD	1.14	0.03
tblVehicleEF	HHD	0.04	0.06

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tblVehicleEF	HHD	0.04	0.04
tblVehicleEF	HHD	0.01	0.03
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tblVehicleEF	HHD	0.07	0.01

tblVehicleEF	HHD	0.01	0.01
tblVehicleEF	HHD	8.4000e-005	0.00
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tblVehicleEF	HHD	5.2000e-005	2.0000e-006
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tblVehicleEF	HHD	2.3300e-004	5.4600e-004
tblVehicleEF	HHD	0.05	1.0000e-006
tblVehicleEF	HHD	0.06	0.01
tblVehicleEF	HHD	0.01	0.01
tblVehicleEF	HHD	8.5000e-005	0.00
tblVehicleEF	HHD	8.5000e-005	4.0000e-006
tblVehicleEF	HHD	3.4760e-003	1.2300e-004
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tblVehicleEF	HHD	5.2000e-005	2.0000e-006
tblVehicleEF	HHD	0.13	0.06
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tblVehicleEF	LDA	0.03	0.05
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tblVehicleEF	LDA	0.03	0.21
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tblVehicleEF	LDA	0.03	0.05
tblVehicleEF	LDA	0.02	0.01
tblVehicleEF	LDA	0.03	0.21
tblVehicleEF	LDA	0.08	0.25
tblVehicleEF	LDA	4.7900e-003	2.7940e-003
tblVehicleEF	LDA	4.6890e-003	0.04
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tblVehicleEF	LDA	1.6780e-003	1.4470e-003
tblVehicleEF	LDA	2.2790e-003	1.8580e-003

tblVehicleEF	LDA	1.5460e-003	1.3330e-003
tblVehicleEF	LDA	2.0960e-003	1.7080e-003
tblVehicleEF	LDA	0.09	0.12
tblVehicleEF	LDA	0.12	0.12
tblVehicleEF	LDA	0.07	0.10
tblVehicleEF	LDA	0.01	0.01
tblVehicleEF	LDA	0.03	0.21
tblVehicleEF	LDA	0.06	0.19
tblVehicleEF	LDA	2.7550e-003	2.8250e-003
tblVehicleEF	LDA	5.8800e-004	5.2600e-004
tblVehicleEF	LDA	0.09	0.12
tblVehicleEF	LDA	0.12	0.12
tblVehicleEF	LDA	0.07	0.10
tblVehicleEF	LDA	0.02	0.02
tblVehicleEF	LDA	0.03	0.21
tblVehicleEF	LDA	0.07	0.21
tblVehicleEF	LDA	4.0860e-003	2.3760e-003
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tblVehicleEF	LDA	245.70	255.84
tblVehicleEF	LDA	57.15	53.80
tblVehicleEF	LDA	0.05	0.04
tblVehicleEF	LDA	1.6780e-003	1.4470e-003
tblVehicleEF	LDA	2.2790e-003	1.8580e-003
tblVehicleEF	LDA	1.5460e-003	1.3330e-003
tblVehicleEF	LDA	2.0960e-003	1.7080e-003

tblVehicleEF	LDA	0.05	0.06
tblVehicleEF	LDA	0.11	0.11
tblVehicleEF	LDA	0.03	0.05
tblVehicleEF	LDA	0.01	9.0880e-003
tblVehicleEF	LDA	0.04	0.24
tblVehicleEF	LDA	0.08	0.23
tblVehicleEF	LDA	2.4600e-003	2.5310e-003
tblVehicleEF	LDA	5.9100e-004	5.3200e-004
tblVehicleEF	LDA	0.05	0.06
tblVehicleEF	LDA	0.11	0.11
tblVehicleEF	LDA	0.03	0.05
tblVehicleEF	LDA	0.01	0.01
tblVehicleEF	LDA	0.04	0.24
tblVehicleEF	LDA	0.08	0.25
tblVehicleEF	LDT1	0.01	7.0610e-003
tblVehicleEF	LDT1	0.02	0.08
tblVehicleEF	LDT1	1.54	1.44
tblVehicleEF	LDT1	3.61	2.44
tblVehicleEF	LDT1	313.68	310.02
tblVehicleEF	LDT1	70.93	65.50
tblVehicleEF	LDT1	0.16	0.13
tblVehicleEF	LDT1	2.7050e-003	2.1940e-003
tblVehicleEF	LDT1	3.6920e-003	2.8520e-003
tblVehicleEF	LDT1	2.4910e-003	2.0190e-003
tblVehicleEF	LDT1	3.3960e-003	2.6220e-003
tblVehicleEF	LDT1	0.18	0.19
tblVehicleEF	LDT1	0.33	0.26

tblVehicleEF	LDT1	0.13	0.13
tblVehicleEF	LDT1	0.03	0.03
tblVehicleEF	LDT1	0.20	0.88
tblVehicleEF	LDT1	0.26	0.43
tblVehicleEF	LDT1	3.1570e-003	3.0680e-003
tblVehicleEF	LDT1	7.7300e-004	6.4800e-004
tblVehicleEF	LDT1	0.18	0.19
tblVehicleEF	LDT1	0.33	0.26
tblVehicleEF	LDT1	0.13	0.13
tblVehicleEF	LDT1	0.05	0.05
tblVehicleEF	LDT1	0.20	0.88
tblVehicleEF	LDT1	0.28	0.48
tblVehicleEF	LDT1	0.02	8.0100e-003
tblVehicleEF	LDT1	0.02	0.07
tblVehicleEF	LDT1	1.85	1.74
tblVehicleEF	LDT1	2.97	2.02
tblVehicleEF	LDT1	341.75	335.16
tblVehicleEF	LDT1	70.93	64.59
tblVehicleEF	LDT1	0.14	0.12
tblVehicleEF	LDT1	2.7050e-003	2.1940e-003
tblVehicleEF	LDT1	3.6920e-003	2.8520e-003
tblVehicleEF	LDT1	2.4910e-003	2.0190e-003
tblVehicleEF	LDT1	3.3960e-003	2.6220e-003
tblVehicleEF	LDT1	0.37	0.40
tblVehicleEF	LDT1	0.41	0.33
tblVehicleEF	LDT1	0.27	0.29
tblVehicleEF	LDT1	0.04	0.04

tblVehicleEF	LDT1	0.20	0.88
tblVehicleEF	LDT1	0.21	0.36
tblVehicleEF	LDT1	3.4420e-003	3.3170e-003
tblVehicleEF	LDT1	7.6200e-004	6.3900e-004
tblVehicleEF	LDT1	0.37	0.40
tblVehicleEF	LDT1	0.41	0.33
tblVehicleEF	LDT1	0.27	0.29
tblVehicleEF	LDT1	0.06	0.05
tblVehicleEF	LDT1	0.20	0.88
tblVehicleEF	LDT1	0.23	0.40
tblVehicleEF	LDT1	0.01	6.8960e-003
tblVehicleEF	LDT1	0.02	0.08
tblVehicleEF	LDT1	1.47	1.37
tblVehicleEF	LDT1	3.55	2.40
tblVehicleEF	LDT1	307.06	304.06
tblVehicleEF	LDT1	70.93	65.42
tblVehicleEF	LDT1	0.15	0.12
tblVehicleEF	LDT1	2.7050e-003	2.1940e-003
tblVehicleEF	LDT1	3.6920e-003	2.8520e-003
tblVehicleEF	LDT1	2.4910e-003	2.0190e-003
tblVehicleEF	LDT1	3.3960e-003	2.6220e-003
tblVehicleEF	LDT1	0.19	0.20
tblVehicleEF	LDT1	0.39	0.30
tblVehicleEF	LDT1	0.12	0.12
tblVehicleEF	LDT1	0.03	0.03
tblVehicleEF	LDT1	0.23	1.03
tblVehicleEF	LDT1	0.25	0.43

tblVehicleEF	LDT1	3.0890e-003	3.0090e-003
tblVehicleEF	LDT1	7.7200e-004	6.4700e-004
tblVehicleEF	LDT1	0.19	0.20
tblVehicleEF	LDT1	0.39	0.30
tblVehicleEF	LDT1	0.12	0.12
tblVehicleEF	LDT1	0.05	0.04
tblVehicleEF	LDT1	0.23	1.03
tblVehicleEF	LDT1	0.28	0.47
tblVehicleEF	LDT2	6.3270e-003	4.2800e-003
tblVehicleEF	LDT2	8.1990e-003	0.07
tblVehicleEF	LDT2	0.80	0.97
tblVehicleEF	LDT2	1.67	2.78
tblVehicleEF	LDT2	351.15	331.49
tblVehicleEF	LDT2	79.39	70.30
tblVehicleEF	LDT2	0.09	0.09
tblVehicleEF	LDT2	1.7270e-003	1.5180e-003
tblVehicleEF	LDT2	2.4170e-003	1.9480e-003
tblVehicleEF	LDT2	1.5880e-003	1.3970e-003
tblVehicleEF	LDT2	2.2220e-003	1.7910e-003
tblVehicleEF	LDT2	0.06	0.10
tblVehicleEF	LDT2	0.13	0.15
tblVehicleEF	LDT2	0.05	0.08
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.07	0.48
tblVehicleEF	LDT2	0.11	0.35
tblVehicleEF	LDT2	3.5180e-003	3.2800e-003
tblVehicleEF	LDT2	8.2200e-004	6.9600e-004

tblVehicleEF	LDT2	0.06	0.10
tblVehicleEF	LDT2	0.13	0.15
tblVehicleEF	LDT2	0.05	0.08
tblVehicleEF	LDT2	0.02	0.03
tblVehicleEF	LDT2	0.07	0.48
tblVehicleEF	LDT2	0.12	0.38
tblVehicleEF	LDT2	7.1840e-003	4.8870e-003
tblVehicleEF	LDT2	6.8290e-003	0.06
tblVehicleEF	LDT2	0.97	1.18
tblVehicleEF	LDT2	1.38	2.30
tblVehicleEF	LDT2	383.36	355.94
tblVehicleEF	LDT2	79.39	69.35
tblVehicleEF	LDT2	0.08	0.08
tblVehicleEF	LDT2	1.7270e-003	1.5180e-003
tblVehicleEF	LDT2	2.4170e-003	1.9480e-003
tblVehicleEF	LDT2	1.5880e-003	1.3970e-003
tblVehicleEF	LDT2	2.2220e-003	1.7910e-003
tblVehicleEF	LDT2	0.13	0.21
tblVehicleEF	LDT2	0.15	0.18
tblVehicleEF	LDT2	0.11	0.18
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.07	0.48
tblVehicleEF	LDT2	0.09	0.29
tblVehicleEF	LDT2	3.8420e-003	3.5220e-003
tblVehicleEF	LDT2	8.1700e-004	6.8600e-004
tblVehicleEF	LDT2	0.13	0.21
tblVehicleEF	LDT2	0.15	0.18

tblVehicleEF	LDT2	0.11	0.18
tblVehicleEF	LDT2	0.03	0.03
tblVehicleEF	LDT2	0.07	0.48
tblVehicleEF	LDT2	0.10	0.32
tblVehicleEF	LDT2	6.1560e-003	4.1770e-003
tblVehicleEF	LDT2	8.1410e-003	0.07
tblVehicleEF	LDT2	0.75	0.92
tblVehicleEF	LDT2	1.64	2.74
tblVehicleEF	LDT2	343.55	325.69
tblVehicleEF	LDT2	79.39	70.22
tblVehicleEF	LDT2	0.08	0.09
tblVehicleEF	LDT2	1.7270e-003	1.5180e-003
tblVehicleEF	LDT2	2.4170e-003	1.9480e-003
tblVehicleEF	LDT2	1.5880e-003	1.3970e-003
tblVehicleEF	LDT2	2.2220e-003	1.7910e-003
tblVehicleEF	LDT2	0.06	0.10
tblVehicleEF	LDT2	0.14	0.16
tblVehicleEF	LDT2	0.05	0.08
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.08	0.56
tblVehicleEF	LDT2	0.11	0.35
tblVehicleEF	LDT2	3.4410e-003	3.2220e-003
tblVehicleEF	LDT2	8.2200e-004	6.9500e-004
tblVehicleEF	LDT2	0.06	0.10
tblVehicleEF	LDT2	0.14	0.16
tblVehicleEF	LDT2	0.05	0.08
tblVehicleEF	LDT2	0.02	0.03

tblVehicleEF	LDT2	0.08	0.56
tblVehicleEF	LDT2	0.12	0.38
tblVehicleEF	LHD1	5.2170e-003	4.8640e-003
tblVehicleEF	LHD1	0.01	6.5090e-003
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	0.14	0.17
tblVehicleEF	LHD1	1.07	0.88
tblVehicleEF	LHD1	2.60	1.03
tblVehicleEF	LHD1	9.23	9.35
tblVehicleEF	LHD1	609.20	648.62
tblVehicleEF	LHD1	30.40	10.79
tblVehicleEF	LHD1	0.09	0.08
tblVehicleEF	LHD1	2.12	1.54
tblVehicleEF	LHD1	9.6500e-004	9.5300e-004
tblVehicleEF	LHD1	0.01	9.9680e-003
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	9.5800e-004	2.6300e-004
tblVehicleEF	LHD1	9.2400e-004	9.1200e-004
tblVehicleEF	LHD1	2.5390e-003	2.4920e-003
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	8.8100e-004	2.4200e-004
tblVehicleEF	LHD1	3.7070e-003	3.1750e-003
tblVehicleEF	LHD1	0.11	0.09
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	1.8240e-003	1.5420e-003
tblVehicleEF	LHD1	0.08	0.07
tblVehicleEF	LHD1	0.35	0.60

tblVehicleEF	LHD1	0.27	0.08
tblVehicleEF	LHD1	9.2000e-005	9.0000e-005
tblVehicleEF	LHD1	5.9760e-003	6.3130e-003
tblVehicleEF	LHD1	3.5300e-004	1.0700e-004
tblVehicleEF	LHD1	3.7070e-003	3.1750e-003
tblVehicleEF	LHD1	0.11	0.09
tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	1.8240e-003	1.5420e-003
tblVehicleEF	LHD1	0.10	0.08
tblVehicleEF	LHD1	0.35	0.60
tblVehicleEF	LHD1	0.29	0.09
tblVehicleEF	LHD1	5.2170e-003	4.8790e-003
tblVehicleEF	LHD1	0.01	6.6670e-003
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	0.14	0.17
tblVehicleEF	LHD1	1.09	0.90
tblVehicleEF	LHD1	2.43	0.97
tblVehicleEF	LHD1	9.23	9.35
tblVehicleEF	LHD1	609.20	648.66
tblVehicleEF	LHD1	30.40	10.67
tblVehicleEF	LHD1	0.09	0.08
tblVehicleEF	LHD1	1.98	1.44
tblVehicleEF	LHD1	9.6500e-004	9.5300e-004
tblVehicleEF	LHD1	0.01	9.9680e-003
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	9.5800e-004	2.6300e-004
tblVehicleEF	LHD1	9.2400e-004	9.1200e-004

tblVehicleEF	LHD1	2.5390e-003	2.4920e-003
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	8.8100e-004	2.4200e-004
tblVehicleEF	LHD1	7.3080e-003	6.2980e-003
tblVehicleEF	LHD1	0.13	0.11
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	4.1220e-003	3.5370e-003
tblVehicleEF	LHD1	0.09	0.07
tblVehicleEF	LHD1	0.36	0.60
tblVehicleEF	LHD1	0.25	0.08
tblVehicleEF	LHD1	9.2000e-005	9.0000e-005
tblVehicleEF	LHD1	5.9770e-003	6.3140e-003
tblVehicleEF	LHD1	3.5000e-004	1.0600e-004
tblVehicleEF	LHD1	7.3080e-003	6.2980e-003
tblVehicleEF	LHD1	0.13	0.11
tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	4.1220e-003	3.5370e-003
tblVehicleEF	LHD1	0.11	0.09
tblVehicleEF	LHD1	0.36	0.60
tblVehicleEF	LHD1	0.28	0.08
tblVehicleEF	LHD1	5.2170e-003	4.8670e-003
tblVehicleEF	LHD1	0.01	6.5250e-003
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	0.14	0.17
tblVehicleEF	LHD1	1.07	0.89
tblVehicleEF	LHD1	2.55	1.02
tblVehicleEF	LHD1	9.23	9.35

tblVehicleEF	LHD1	609.20	648.63
tblVehicleEF	LHD1	30.40	10.76
tblVehicleEF	LHD1	0.09	0.08
tblVehicleEF	LHD1	2.08	1.51
tblVehicleEF	LHD1	9.6500e-004	9.5300e-004
tblVehicleEF	LHD1	0.01	9.9680e-003
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	9.5800e-004	2.6300e-004
tblVehicleEF	LHD1	9.2400e-004	9.1200e-004
tblVehicleEF	LHD1	2.5390e-003	2.4920e-003
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	8.8100e-004	2.4200e-004
tblVehicleEF	LHD1	4.0430e-003	3.5090e-003
tblVehicleEF	LHD1	0.13	0.10
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	1.7940e-003	1.5200e-003
tblVehicleEF	LHD1	0.08	0.07
tblVehicleEF	LHD1	0.38	0.64
tblVehicleEF	LHD1	0.26	0.08
tblVehicleEF	LHD1	9.2000e-005	9.0000e-005
tblVehicleEF	LHD1	5.9760e-003	6.3130e-003
tblVehicleEF	LHD1	3.5200e-004	1.0600e-004
tblVehicleEF	LHD1	4.0430e-003	3.5090e-003
tblVehicleEF	LHD1	0.13	0.10
tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	1.7940e-003	1.5200e-003
tblVehicleEF	LHD1	0.10	0.08

tblVehicleEF	LHD1	0.38	0.64
tblVehicleEF	LHD1	0.29	0.09
tblVehicleEF	LHD2	3.5950e-003	3.3090e-003
tblVehicleEF	LHD2	4.6110e-003	4.1580e-003
tblVehicleEF	LHD2	8.1370e-003	9.5080e-003
tblVehicleEF	LHD2	0.12	0.14
tblVehicleEF	LHD2	0.50	0.56
tblVehicleEF	LHD2	1.20	0.61
tblVehicleEF	LHD2	14.27	14.55
tblVehicleEF	LHD2	608.52	648.96
tblVehicleEF	LHD2	24.46	7.78
tblVehicleEF	LHD2	0.11	0.11
tblVehicleEF	LHD2	1.49	1.65
tblVehicleEF	LHD2	1.2830e-003	1.4030e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	4.0000e-004	1.2600e-004
tblVehicleEF	LHD2	1.2280e-003	1.3430e-003
tblVehicleEF	LHD2	2.6860e-003	2.6930e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	3.6800e-004	1.1600e-004
tblVehicleEF	LHD2	1.3070e-003	1.5580e-003
tblVehicleEF	LHD2	0.04	0.05
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	7.0300e-004	8.0000e-004
tblVehicleEF	LHD2	0.06	0.06
tblVehicleEF	LHD2	0.09	0.29

tblVehicleEF	LHD2	0.11	0.05
tblVehicleEF	LHD2	5.9200e-003	6.2610e-003
tblVehicleEF	LHD2	2.6700e-004	7.7000e-005
tblVehicleEF	LHD2	1.3070e-003	1.5580e-003
tblVehicleEF	LHD2	0.04	0.05
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	7.0300e-004	8.0000e-004
tblVehicleEF	LHD2	0.07	0.07
tblVehicleEF	LHD2	0.09	0.29
tblVehicleEF	LHD2	0.12	0.05
tblVehicleEF	LHD2	3.5950e-003	3.3190e-003
tblVehicleEF	LHD2	4.6760e-003	4.2030e-003
tblVehicleEF	LHD2	7.7630e-003	9.0810e-003
tblVehicleEF	LHD2	0.12	0.14
tblVehicleEF	LHD2	0.50	0.56
tblVehicleEF	LHD2	1.13	0.57
tblVehicleEF	LHD2	14.27	14.55
tblVehicleEF	LHD2	608.52	648.97
tblVehicleEF	LHD2	24.46	7.71
tblVehicleEF	LHD2	0.11	0.11
tblVehicleEF	LHD2	1.40	1.55
tblVehicleEF	LHD2	1.2830e-003	1.4030e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	4.0000e-004	1.2600e-004
tblVehicleEF	LHD2	1.2280e-003	1.3430e-003
tblVehicleEF	LHD2	2.6860e-003	2.6930e-003

tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	3.6800e-004	1.1600e-004
tblVehicleEF	LHD2	2.5220e-003	3.0280e-003
tblVehicleEF	LHD2	0.04	0.06
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	1.5220e-003	1.7650e-003
tblVehicleEF	LHD2	0.06	0.06
tblVehicleEF	LHD2	0.09	0.29
tblVehicleEF	LHD2	0.10	0.04
tblVehicleEF	LHD2	5.9200e-003	6.2610e-003
tblVehicleEF	LHD2	2.6500e-004	7.6000e-005
tblVehicleEF	LHD2	2.5220e-003	3.0280e-003
tblVehicleEF	LHD2	0.04	0.06
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	1.5220e-003	1.7650e-003
tblVehicleEF	LHD2	0.07	0.07
tblVehicleEF	LHD2	0.09	0.29
tblVehicleEF	LHD2	0.11	0.05
tblVehicleEF	LHD2	3.5950e-003	3.3110e-003
tblVehicleEF	LHD2	4.6180e-003	4.1630e-003
tblVehicleEF	LHD2	8.0640e-003	9.4270e-003
tblVehicleEF	LHD2	0.12	0.14
tblVehicleEF	LHD2	0.50	0.56
tblVehicleEF	LHD2	1.19	0.60
tblVehicleEF	LHD2	14.27	14.55
tblVehicleEF	LHD2	608.52	648.96
tblVehicleEF	LHD2	24.46	7.77

tblVehicleEF	LHD2	0.11	0.11
tblVehicleEF	LHD2	1.46	1.62
tblVehicleEF	LHD2	1.2830e-003	1.4030e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	4.0000e-004	1.2600e-004
tblVehicleEF	LHD2	1.2280e-003	1.3430e-003
tblVehicleEF	LHD2	2.6860e-003	2.6930e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	3.6800e-004	1.1600e-004
tblVehicleEF	LHD2	1.3460e-003	1.6400e-003
tblVehicleEF	LHD2	0.04	0.05
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	6.8700e-004	7.8100e-004
tblVehicleEF	LHD2	0.06	0.06
tblVehicleEF	LHD2	0.10	0.31
tblVehicleEF	LHD2	0.11	0.05
tblVehicleEF	LHD2	5.9200e-003	6.2610e-003
tblVehicleEF	LHD2	2.6600e-004	7.7000e-005
tblVehicleEF	LHD2	1.3460e-003	1.6400e-003
tblVehicleEF	LHD2	0.04	0.05
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	6.8700e-004	7.8100e-004
tblVehicleEF	LHD2	0.07	0.07
tblVehicleEF	LHD2	0.10	0.31
tblVehicleEF	LHD2	0.12	0.05
tblVehicleEF	MCY	0.43	0.33

tblVehicleEF	MCY	0.16	0.25
tblVehicleEF	MCY	20.55	20.74
tblVehicleEF	MCY	9.93	8.78
tblVehicleEF	MCY	167.73	210.98
tblVehicleEF	MCY	46.45	61.55
tblVehicleEF	MCY	1.16	1.17
tblVehicleEF	MCY	1.8610e-003	1.8280e-003
tblVehicleEF	MCY	3.6730e-003	3.0520e-003
tblVehicleEF	MCY	1.7420e-003	1.7110e-003
tblVehicleEF	MCY	3.4650e-003	2.8770e-003
tblVehicleEF	MCY	1.45	1.44
tblVehicleEF	MCY	0.84	0.84
tblVehicleEF	MCY	0.80	0.80
tblVehicleEF	MCY	2.23	2.23
tblVehicleEF	MCY	0.49	2.04
tblVehicleEF	MCY	2.16	1.90
tblVehicleEF	MCY	2.0770e-003	2.0880e-003
tblVehicleEF	MCY	6.9000e-004	6.0900e-004
tblVehicleEF	MCY	1.45	1.44
tblVehicleEF	MCY	0.84	0.84
tblVehicleEF	MCY	0.80	0.80
tblVehicleEF	MCY	2.74	2.74
tblVehicleEF	MCY	0.49	2.04
tblVehicleEF	MCY	2.35	2.07
tblVehicleEF	MCY	0.42	0.32
tblVehicleEF	MCY	0.14	0.22
tblVehicleEF	MCY	20.68	20.87

tblVehicleEF	MCY	9.05	7.97
tblVehicleEF	MCY	167.73	210.98
tblVehicleEF	MCY	46.45	59.35
tblVehicleEF	MCY	0.99	0.99
tblVehicleEF	MCY	1.8610e-003	1.8280e-003
tblVehicleEF	MCY	3.6730e-003	3.0520e-003
tblVehicleEF	MCY	1.7420e-003	1.7110e-003
tblVehicleEF	MCY	3.4650e-003	2.8770e-003
tblVehicleEF	MCY	3.14	3.14
tblVehicleEF	MCY	1.27	1.28
tblVehicleEF	MCY	2.13	2.12
tblVehicleEF	MCY	2.17	2.17
tblVehicleEF	MCY	0.49	2.03
tblVehicleEF	MCY	1.86	1.63
tblVehicleEF	MCY	2.0770e-003	2.0880e-003
tblVehicleEF	MCY	6.6700e-004	5.8700e-004
tblVehicleEF	MCY	3.14	3.14
tblVehicleEF	MCY	1.27	1.28
tblVehicleEF	MCY	2.13	2.12
tblVehicleEF	MCY	2.67	2.67
tblVehicleEF	MCY	0.49	2.03
tblVehicleEF	MCY	2.02	1.77
tblVehicleEF	MCY	0.42	0.32
tblVehicleEF	MCY	0.15	0.24
tblVehicleEF	MCY	19.63	19.79
tblVehicleEF	MCY	9.55	8.43
tblVehicleEF	MCY	167.73	209.35

tblVehicleEF	MCY	46.45	60.75
tblVehicleEF	MCY	1.12	1.12
tblVehicleEF	MCY	1.8610e-003	1.8280e-003
tblVehicleEF	MCY	3.6730e-003	3.0520e-003
tblVehicleEF	MCY	1.7420e-003	1.7110e-003
tblVehicleEF	MCY	3.4650e-003	2.8770e-003
tblVehicleEF	MCY	1.71	1.70
tblVehicleEF	MCY	1.13	1.12
tblVehicleEF	MCY	0.72	0.71
tblVehicleEF	MCY	2.19	2.20
tblVehicleEF	MCY	0.56	2.32
tblVehicleEF	MCY	2.08	1.83
tblVehicleEF	MCY	2.0610e-003	2.0720e-003
tblVehicleEF	MCY	6.8200e-004	6.0100e-004
tblVehicleEF	MCY	1.71	1.70
tblVehicleEF	MCY	1.13	1.12
tblVehicleEF	MCY	0.72	0.71
tblVehicleEF	MCY	2.69	2.69
tblVehicleEF	MCY	0.56	2.32
tblVehicleEF	MCY	2.27	1.99
tblVehicleEF	MDV	0.01	5.5560e-003
tblVehicleEF	MDV	0.02	0.09
tblVehicleEF	MDV	1.35	1.14
tblVehicleEF	MDV	3.25	3.33
tblVehicleEF	MDV	483.94	412.02
tblVehicleEF	MDV	107.92	87.05
tblVehicleEF	MDV	0.17	0.12

tblVehicleEF	MDV	1.8260e-003	1.6290e-003
tblVehicleEF	MDV	2.5170e-003	2.0560e-003
tblVehicleEF	MDV	1.6830e-003	1.5030e-003
tblVehicleEF	MDV	2.3150e-003	1.8910e-003
tblVehicleEF	MDV	0.10	0.12
tblVehicleEF	MDV	0.20	0.17
tblVehicleEF	MDV	0.08	0.10
tblVehicleEF	MDV	0.03	0.02
tblVehicleEF	MDV	0.11	0.52
tblVehicleEF	MDV	0.25	0.45
tblVehicleEF	MDV	4.8500e-003	4.0740e-003
tblVehicleEF	MDV	1.1370e-003	8.6100e-004
tblVehicleEF	MDV	0.10	0.12
tblVehicleEF	MDV	0.20	0.17
tblVehicleEF	MDV	0.08	0.10
tblVehicleEF	MDV	0.05	0.03
tblVehicleEF	MDV	0.11	0.52
tblVehicleEF	MDV	0.28	0.50
tblVehicleEF	MDV	0.01	6.3580e-003
tblVehicleEF	MDV	0.02	0.08
tblVehicleEF	MDV	1.64	1.38
tblVehicleEF	MDV	2.69	2.75
tblVehicleEF	MDV	526.85	437.99
tblVehicleEF	MDV	107.92	85.88
tblVehicleEF	MDV	0.16	0.11
tblVehicleEF	MDV	1.8260e-003	1.6290e-003
tblVehicleEF	MDV	2.5170e-003	2.0560e-003

tblVehicleEF	MDV	1.6830e-003	1.5030e-003
tblVehicleEF	MDV	2.3150e-003	1.8910e-003
tblVehicleEF	MDV	0.20	0.24
tblVehicleEF	MDV	0.23	0.20
tblVehicleEF	MDV	0.17	0.21
tblVehicleEF	MDV	0.04	0.03
tblVehicleEF	MDV	0.11	0.52
tblVehicleEF	MDV	0.21	0.38
tblVehicleEF	MDV	5.2830e-003	4.3310e-003
tblVehicleEF	MDV	1.1260e-003	8.5000e-004
tblVehicleEF	MDV	0.20	0.24
tblVehicleEF	MDV	0.23	0.20
tblVehicleEF	MDV	0.17	0.21
tblVehicleEF	MDV	0.05	0.04
tblVehicleEF	MDV	0.11	0.52
tblVehicleEF	MDV	0.23	0.42
tblVehicleEF	MDV	0.01	5.4100e-003
tblVehicleEF	MDV	0.02	0.09
tblVehicleEF	MDV	1.28	1.08
tblVehicleEF	MDV	3.20	3.28
tblVehicleEF	MDV	473.93	405.86
tblVehicleEF	MDV	107.92	86.95
tblVehicleEF	MDV	0.16	0.11
tblVehicleEF	MDV	1.8260e-003	1.6290e-003
tblVehicleEF	MDV	2.5170e-003	2.0560e-003
tblVehicleEF	MDV	1.6830e-003	1.5030e-003
tblVehicleEF	MDV	2.3150e-003	1.8910e-003

tblVehicleEF	MDV	0.10	0.11
tblVehicleEF	MDV	0.22	0.19
tblVehicleEF	MDV	0.08	0.10
tblVehicleEF	MDV	0.03	0.02
tblVehicleEF	MDV	0.13	0.60
tblVehicleEF	MDV	0.25	0.45
tblVehicleEF	MDV	4.7490e-003	4.0130e-003
tblVehicleEF	MDV	1.1360e-003	8.6000e-004
tblVehicleEF	MDV	0.10	0.11
tblVehicleEF	MDV	0.22	0.19
tblVehicleEF	MDV	0.08	0.10
tblVehicleEF	MDV	0.04	0.03
tblVehicleEF	MDV	0.13	0.60
tblVehicleEF	MDV	0.27	0.49
tblVehicleEF	MH	0.04	3.7970e-003
tblVehicleEF	MH	0.03	0.00
tblVehicleEF	MH	3.07	0.36
tblVehicleEF	MH	6.43	0.00
tblVehicleEF	MH	1,045.05	951.23
tblVehicleEF	MH	59.49	0.00
tblVehicleEF	MH	1.54	4.54
tblVehicleEF	MH	0.01	0.02
tblVehicleEF	MH	0.04	0.14
tblVehicleEF	MH	1.1740e-003	0.00
tblVehicleEF	MH	3.2230e-003	4.0000e-003
tblVehicleEF	MH	0.04	0.14
tblVehicleEF	MH	1.0790e-003	0.00

tblVehicleEF	MH	1.47	0.00
tblVehicleEF	MH	0.09	0.00
tblVehicleEF	MH	0.51	0.00
tblVehicleEF	MH	0.10	0.08
tblVehicleEF	MH	0.03	0.00
tblVehicleEF	MH	0.37	0.00
tblVehicleEF	MH	0.01	8.9930e-003
tblVehicleEF	MH	7.0700e-004	0.00
tblVehicleEF	MH	1.47	0.00
tblVehicleEF	MH	0.09	0.00
tblVehicleEF	MH	0.51	0.00
tblVehicleEF	MH	0.14	0.09
tblVehicleEF	MH	0.03	0.00
tblVehicleEF	MH	0.40	0.00
tblVehicleEF	MH	0.04	3.7970e-003
tblVehicleEF	MH	0.03	0.00
tblVehicleEF	MH	3.19	0.36
tblVehicleEF	MH	5.84	0.00
tblVehicleEF	MH	1,045.05	951.23
tblVehicleEF	MH	59.49	0.00
tblVehicleEF	MH	1.41	4.26
tblVehicleEF	MH	0.01	0.02
tblVehicleEF	MH	0.04	0.14
tblVehicleEF	MH	1.1740e-003	0.00
tblVehicleEF	MH	3.2230e-003	4.0000e-003
tblVehicleEF	MH	0.04	0.14
tblVehicleEF	MH	1.0790e-003	0.00

tblVehicleEF	MH	2.91	0.00
tblVehicleEF	MH	0.11	0.00
tblVehicleEF	MH	1.21	0.00
tblVehicleEF	MH	0.11	0.08
tblVehicleEF	MH	0.03	0.00
tblVehicleEF	MH	0.34	0.00
tblVehicleEF	MH	0.01	8.9930e-003
tblVehicleEF	MH	6.9700e-004	0.00
tblVehicleEF	MH	2.91	0.00
tblVehicleEF	MH	0.11	0.00
tblVehicleEF	MH	1.21	0.00
tblVehicleEF	MH	0.15	0.09
tblVehicleEF	MH	0.03	0.00
tblVehicleEF	MH	0.38	0.00
tblVehicleEF	MH	0.04	3.7970e-003
tblVehicleEF	MH	0.03	0.00
tblVehicleEF	MH	3.08	0.36
tblVehicleEF	MH	6.36	0.00
tblVehicleEF	MH	1,045.05	951.23
tblVehicleEF	MH	59.49	0.00
tblVehicleEF	MH	1.51	4.46
tblVehicleEF	MH	0.01	0.02
tblVehicleEF	MH	0.04	0.14
tblVehicleEF	MH	1.1740e-003	0.00
tblVehicleEF	MH	3.2230e-003	4.0000e-003
tblVehicleEF	MH	0.04	0.14
tblVehicleEF	MH	1.0790e-003	0.00

tblVehicleEF	MH	1.75	0.00
tblVehicleEF	MH	0.11	0.00
tblVehicleEF	MH	0.53	0.00
tblVehicleEF	MH	0.10	0.08
tblVehicleEF	MH	0.03	0.00
tblVehicleEF	MH	0.37	0.00
tblVehicleEF	MH	0.01	8.9930e-003
tblVehicleEF	MH	7.0600e-004	0.00
tblVehicleEF	MH	1.75	0.00
tblVehicleEF	MH	0.11	0.00
tblVehicleEF	MH	0.53	0.00
tblVehicleEF	MH	0.15	0.09
tblVehicleEF	MH	0.03	0.00
tblVehicleEF	MH	0.40	0.00
tblVehicleEF	MHD	0.02	3.1740e-003
tblVehicleEF	MHD	3.5160e-003	3.4880e-003
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tblVehicleEF	MHD	0.32	0.34
tblVehicleEF	MHD	0.27	0.35
tblVehicleEF	MHD	5.32	0.97
tblVehicleEF	MHD	156.91	69.07
tblVehicleEF	MHD	1,101.52	999.60
tblVehicleEF	MHD	52.43	8.24
tblVehicleEF	MHD	0.60	0.51
tblVehicleEF	MHD	0.99	1.54
tblVehicleEF	MHD	3.8600e-004	1.1810e-003
tblVehicleEF	MHD	5.0030e-003	0.03

tblVehicleEF	MHD	7.6400e-004	1.0000e-004
tblVehicleEF	MHD	3.6900e-004	1.1300e-003
tblVehicleEF	MHD	4.7830e-003	0.03
tblVehicleEF	MHD	7.0300e-004	9.2000e-005
tblVehicleEF	MHD	1.2800e-003	5.9300e-004
tblVehicleEF	MHD	0.04	0.02
tblVehicleEF	MHD	0.02	0.02
tblVehicleEF	MHD	6.5100e-004	3.0000e-004
tblVehicleEF	MHD	0.04	0.05
tblVehicleEF	MHD	0.02	0.11
tblVehicleEF	MHD	0.32	0.04
tblVehicleEF	MHD	1.5080e-003	6.5500e-004
tblVehicleEF	MHD	0.01	9.5250e-003
tblVehicleEF	MHD	6.1700e-004	8.2000e-005
tblVehicleEF	MHD	1.2800e-003	5.9300e-004
tblVehicleEF	MHD	0.04	0.02
tblVehicleEF	MHD	0.03	0.02
tblVehicleEF	MHD	6.5100e-004	3.0000e-004
tblVehicleEF	MHD	0.04	0.06
tblVehicleEF	MHD	0.02	0.11
tblVehicleEF	MHD	0.35	0.05
tblVehicleEF	MHD	0.02	3.0170e-003
tblVehicleEF	MHD	3.5800e-003	3.5290e-003
tblVehicleEF	MHD	0.05	8.1180e-003
tblVehicleEF	MHD	0.24	0.28
tblVehicleEF	MHD	0.28	0.36
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tblVehicleEF	MHD	166.20	69.79
tblVehicleEF	MHD	1,101.52	999.60
tblVehicleEF	MHD	52.43	8.13
tblVehicleEF	MHD	0.62	0.51
tblVehicleEF	MHD	0.92	1.44
tblVehicleEF	MHD	3.2500e-004	9.9900e-004
tblVehicleEF	MHD	5.0030e-003	0.03
tblVehicleEF	MHD	7.6400e-004	1.0000e-004
tblVehicleEF	MHD	3.1100e-004	9.5500e-004
tblVehicleEF	MHD	4.7830e-003	0.03
tblVehicleEF	MHD	7.0300e-004	9.2000e-005
tblVehicleEF	MHD	2.5300e-003	1.1740e-003
tblVehicleEF	MHD	0.05	0.02
tblVehicleEF	MHD	0.02	0.02
tblVehicleEF	MHD	1.5010e-003	6.9400e-004
tblVehicleEF	MHD	0.04	0.05
tblVehicleEF	MHD	0.02	0.11
tblVehicleEF	MHD	0.30	0.04
tblVehicleEF	MHD	1.5950e-003	6.6200e-004
tblVehicleEF	MHD	0.01	9.5250e-003
tblVehicleEF	MHD	6.1100e-004	8.1000e-005
tblVehicleEF	MHD	2.5300e-003	1.1740e-003
tblVehicleEF	MHD	0.05	0.02
tblVehicleEF	MHD	0.03	0.02
tblVehicleEF	MHD	1.5010e-003	6.9400e-004
tblVehicleEF	MHD	0.04	0.06
tblVehicleEF	MHD	0.02	0.11

tblVehicleEF	MHD	0.33	0.05
tblVehicleEF	MHD	0.02	3.4070e-003
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tblVehicleEF	MHD	0.27	0.35
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tblVehicleEF	MHD	1,101.52	999.60
tblVehicleEF	MHD	52.43	8.22
tblVehicleEF	MHD	0.57	0.51
tblVehicleEF	MHD	0.97	1.51
tblVehicleEF	MHD	4.7000e-004	1.4340e-003
tblVehicleEF	MHD	5.0030e-003	0.03
tblVehicleEF	MHD	7.6400e-004	1.0000e-004
tblVehicleEF	MHD	4.4900e-004	1.3720e-003
tblVehicleEF	MHD	4.7830e-003	0.03
tblVehicleEF	MHD	7.0300e-004	9.2000e-005
tblVehicleEF	MHD	1.3890e-003	6.4600e-004
tblVehicleEF	MHD	0.05	0.02
tblVehicleEF	MHD	0.03	0.02
tblVehicleEF	MHD	6.4000e-004	2.9500e-004
tblVehicleEF	MHD	0.04	0.05
tblVehicleEF	MHD	0.02	0.12
tblVehicleEF	MHD	0.32	0.04
tblVehicleEF	MHD	1.3860e-003	6.4600e-004
tblVehicleEF	MHD	0.01	9.5250e-003

tblVehicleEF	MHD	6.1600e-004	8.1000e-005
tblVehicleEF	MHD	1.3890e-003	6.4600e-004
tblVehicleEF	MHD	0.05	0.02
tblVehicleEF	MHD	0.04	0.02
tblVehicleEF	MHD	6.4000e-004	2.9500e-004
tblVehicleEF	MHD	0.04	0.06
tblVehicleEF	MHD	0.02	0.12
tblVehicleEF	MHD	0.35	0.05
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tblVehicleEF	OBUS	9.9110e-003	8.5440e-003
tblVehicleEF	OBUS	0.03	0.03
tblVehicleEF	OBUS	0.26	0.48
tblVehicleEF	OBUS	0.63	0.98
tblVehicleEF	OBUS	6.27	2.73
tblVehicleEF	OBUS	70.35	66.56
tblVehicleEF	OBUS	1,121.50	1,475.42
tblVehicleEF	OBUS	70.70	21.88
tblVehicleEF	OBUS	0.28	0.29
tblVehicleEF	OBUS	0.97	1.13
tblVehicleEF	OBUS	6.4000e-005	5.0000e-004
tblVehicleEF	OBUS	4.6440e-003	0.01
tblVehicleEF	OBUS	9.2900e-004	2.3000e-004
tblVehicleEF	OBUS	6.1000e-005	4.7800e-004
tblVehicleEF	OBUS	4.4220e-003	0.01
tblVehicleEF	OBUS	8.5400e-004	2.1200e-004
tblVehicleEF	OBUS	2.1800e-003	2.7870e-003
tblVehicleEF	OBUS	0.02	0.03

tblVehicleEF	OBUS	0.04	0.05
tblVehicleEF	OBUS	9.3100e-004	1.1430e-003
tblVehicleEF	OBUS	0.04	0.06
tblVehicleEF	OBUS	0.05	0.31
tblVehicleEF	OBUS	0.38	0.13
tblVehicleEF	OBUS	6.8400e-004	6.3600e-004
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	8.1700e-004	2.1700e-004
tblVehicleEF	OBUS	2.1800e-003	2.7870e-003
tblVehicleEF	OBUS	0.02	0.03
tblVehicleEF	OBUS	0.05	0.07
tblVehicleEF	OBUS	9.3100e-004	1.1430e-003
tblVehicleEF	OBUS	0.06	0.07
tblVehicleEF	OBUS	0.05	0.31
tblVehicleEF	OBUS	0.42	0.14
tblVehicleEF	OBUS	0.01	9.2020e-003
tblVehicleEF	OBUS	0.01	8.7760e-003
tblVehicleEF	OBUS	0.03	0.02
tblVehicleEF	OBUS	0.26	0.47
tblVehicleEF	OBUS	0.65	1.01
tblVehicleEF	OBUS	5.74	2.51
tblVehicleEF	OBUS	73.50	66.43
tblVehicleEF	OBUS	1,121.50	1,475.46
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tblVehicleEF	OBUS	0.29	0.28
tblVehicleEF	OBUS	0.90	1.04
tblVehicleEF	OBUS	5.4000e-005	4.2500e-004

tblVehicleEF	OBUS	4.6440e-003	0.01
tblVehicleEF	OBUS	9.2900e-004	2.3000e-004
tblVehicleEF	OBUS	5.1000e-005	4.0700e-004
tblVehicleEF	OBUS	4.4220e-003	0.01
tblVehicleEF	OBUS	8.5400e-004	2.1200e-004
tblVehicleEF	OBUS	4.2350e-003	5.4310e-003
tblVehicleEF	OBUS	0.02	0.03
tblVehicleEF	OBUS	0.03	0.05
tblVehicleEF	OBUS	2.1330e-003	2.6360e-003
tblVehicleEF	OBUS	0.05	0.06
tblVehicleEF	OBUS	0.05	0.31
tblVehicleEF	OBUS	0.36	0.12
tblVehicleEF	OBUS	7.1400e-004	6.3500e-004
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	8.0800e-004	2.1300e-004
tblVehicleEF	OBUS	4.2350e-003	5.4310e-003
tblVehicleEF	OBUS	0.02	0.03
tblVehicleEF	OBUS	0.05	0.07
tblVehicleEF	OBUS	2.1330e-003	2.6360e-003
tblVehicleEF	OBUS	0.06	0.08
tblVehicleEF	OBUS	0.05	0.31
tblVehicleEF	OBUS	0.40	0.14
tblVehicleEF	OBUS	0.01	9.1130e-003
tblVehicleEF	OBUS	9.9380e-003	8.5700e-003
tblVehicleEF	OBUS	0.03	0.03
tblVehicleEF	OBUS	0.28	0.49
tblVehicleEF	OBUS	0.63	0.99

tblVehicleEF	OBUS	6.22	2.71
tblVehicleEF	OBUS	66.00	66.75
tblVehicleEF	OBUS	1,121.50	1,475.42
tblVehicleEF	OBUS	70.70	21.85
tblVehicleEF	OBUS	0.27	0.30
tblVehicleEF	OBUS	0.96	1.11
tblVehicleEF	OBUS	7.7000e-005	6.0400e-004
tblVehicleEF	OBUS	4.6440e-003	0.01
tblVehicleEF	OBUS	9.2900e-004	2.3000e-004
tblVehicleEF	OBUS	7.4000e-005	5.7800e-004
tblVehicleEF	OBUS	4.4220e-003	0.01
tblVehicleEF	OBUS	8.5400e-004	2.1200e-004
tblVehicleEF	OBUS	2.3200e-003	3.0070e-003
tblVehicleEF	OBUS	0.02	0.03
tblVehicleEF	OBUS	0.04	0.05
tblVehicleEF	OBUS	9.4100e-004	1.1540e-003
tblVehicleEF	OBUS	0.04	0.06
tblVehicleEF	OBUS	0.05	0.33
tblVehicleEF	OBUS	0.38	0.13
tblVehicleEF	OBUS	6.4200e-004	6.3800e-004
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	8.1600e-004	2.1600e-004
tblVehicleEF	OBUS	2.3200e-003	3.0070e-003
tblVehicleEF	OBUS	0.02	0.03
tblVehicleEF	OBUS	0.05	0.06
tblVehicleEF	OBUS	9.4100e-004	1.1540e-003
tblVehicleEF	OBUS	0.06	0.08

tblVehicleEF	OBUS	0.05	0.33
tblVehicleEF	OBUS	0.42	0.14
tblVehicleEF	SBUS	0.84	0.04
tblVehicleEF	SBUS	0.01	6.8550e-003
tblVehicleEF	SBUS	0.07	4.0770e-003
tblVehicleEF	SBUS	5.71	1.90
tblVehicleEF	SBUS	0.65	0.58
tblVehicleEF	SBUS	5.33	0.55
tblVehicleEF	SBUS	1,258.13	336.22
tblVehicleEF	SBUS	1,136.31	1,128.72
tblVehicleEF	SBUS	37.11	3.21
tblVehicleEF	SBUS	11.70	3.35
tblVehicleEF	SBUS	4.77	5.07
tblVehicleEF	SBUS	0.01	4.0350e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.03	0.03
tblVehicleEF	SBUS	5.1700e-004	3.0000e-005
tblVehicleEF	SBUS	0.01	3.8600e-003
tblVehicleEF	SBUS	2.7560e-003	2.7660e-003
tblVehicleEF	SBUS	0.03	0.03
tblVehicleEF	SBUS	4.7500e-004	2.8000e-005
tblVehicleEF	SBUS	2.9260e-003	7.3800e-004
tblVehicleEF	SBUS	0.02	5.5390e-003
tblVehicleEF	SBUS	0.68	0.20
tblVehicleEF	SBUS	1.3050e-003	3.4800e-004
tblVehicleEF	SBUS	0.11	0.10
tblVehicleEF	SBUS	9.3510e-003	0.04

tblVehicleEF	SBUS	0.27	0.02
tblVehicleEF	SBUS	0.01	3.1960e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	4.6300e-004	3.2000e-005
tblVehicleEF	SBUS	2.9260e-003	7.3800e-004
tblVehicleEF	SBUS	0.02	5.5390e-003
tblVehicleEF	SBUS	0.97	0.28
tblVehicleEF	SBUS	1.3050e-003	3.4800e-004
tblVehicleEF	SBUS	0.13	0.11
tblVehicleEF	SBUS	9.3510e-003	0.04
tblVehicleEF	SBUS	0.30	0.03
tblVehicleEF	SBUS	0.84	0.04
tblVehicleEF	SBUS	0.01	6.9390e-003
tblVehicleEF	SBUS	0.06	3.3780e-003
tblVehicleEF	SBUS	5.56	1.86
tblVehicleEF	SBUS	0.66	0.59
tblVehicleEF	SBUS	3.65	0.39
tblVehicleEF	SBUS	1,322.00	344.13
tblVehicleEF	SBUS	1,136.31	1,128.74
tblVehicleEF	SBUS	37.11	2.94
tblVehicleEF	SBUS	12.08	3.42
tblVehicleEF	SBUS	4.47	4.75
tblVehicleEF	SBUS	0.01	3.4090e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.03	0.03
tblVehicleEF	SBUS	5.1700e-004	3.0000e-005
tblVehicleEF	SBUS	9.6490e-003	3.2620e-003

tblVehicleEF	SBUS	2.7560e-003	2.7660e-003
tblVehicleEF	SBUS	0.03	0.03
tblVehicleEF	SBUS	4.7500e-004	2.8000e-005
tblVehicleEF	SBUS	5.6170e-003	1.3280e-003
tblVehicleEF	SBUS	0.02	5.8520e-003
tblVehicleEF	SBUS	0.67	0.20
tblVehicleEF	SBUS	2.8800e-003	6.7400e-004
tblVehicleEF	SBUS	0.11	0.10
tblVehicleEF	SBUS	8.5310e-003	0.03
tblVehicleEF	SBUS	0.22	0.02
tblVehicleEF	SBUS	0.01	3.2700e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	4.3500e-004	2.9000e-005
tblVehicleEF	SBUS	5.6170e-003	1.3280e-003
tblVehicleEF	SBUS	0.02	5.8520e-003
tblVehicleEF	SBUS	0.97	0.28
tblVehicleEF	SBUS	2.8800e-003	6.7400e-004
tblVehicleEF	SBUS	0.13	0.12
tblVehicleEF	SBUS	8.5310e-003	0.03
tblVehicleEF	SBUS	0.24	0.02
tblVehicleEF	SBUS	0.84	0.04
tblVehicleEF	SBUS	0.01	6.8510e-003
tblVehicleEF	SBUS	0.07	4.1760e-003
tblVehicleEF	SBUS	5.91	1.95
tblVehicleEF	SBUS	0.65	0.58
tblVehicleEF	SBUS	5.37	0.57
tblVehicleEF	SBUS	1,169.92	325.30

tblVehicleEF	SBUS	1,136.31	1,128.72
tblVehicleEF	SBUS	37.11	3.24
tblVehicleEF	SBUS	11.19	3.26
tblVehicleEF	SBUS	4.69	4.99
tblVehicleEF	SBUS	0.01	4.8980e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.03	0.03
tblVehicleEF	SBUS	5.1700e-004	3.0000e-005
tblVehicleEF	SBUS	0.01	4.6860e-003
tblVehicleEF	SBUS	2.7560e-003	2.7660e-003
tblVehicleEF	SBUS	0.03	0.03
tblVehicleEF	SBUS	4.7500e-004	2.8000e-005
tblVehicleEF	SBUS	2.9580e-003	7.2600e-004
tblVehicleEF	SBUS	0.02	5.8800e-003
tblVehicleEF	SBUS	0.68	0.20
tblVehicleEF	SBUS	1.2820e-003	3.5300e-004
tblVehicleEF	SBUS	0.11	0.10
tblVehicleEF	SBUS	0.01	0.05
tblVehicleEF	SBUS	0.28	0.02
tblVehicleEF	SBUS	0.01	3.0930e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	4.6400e-004	3.2000e-005
tblVehicleEF	SBUS	2.9580e-003	7.2600e-004
tblVehicleEF	SBUS	0.02	5.8800e-003
tblVehicleEF	SBUS	0.98	0.28
tblVehicleEF	SBUS	1.2820e-003	3.5300e-004
tblVehicleEF	SBUS	0.13	0.11

tblVehicleEF	SBUS	0.01	0.05
tblVehicleEF	SBUS	0.31	0.03
tblVehicleEF	UBUS	1.83	4.19
tblVehicleEF	UBUS	0.08	0.02
tblVehicleEF	UBUS	9.26	32.67
tblVehicleEF	UBUS	14.34	1.43
tblVehicleEF	UBUS	1,846.39	1,724.94
tblVehicleEF	UBUS	136.37	16.90
tblVehicleEF	UBUS	5.87	0.37
tblVehicleEF	UBUS	0.52	0.08
tblVehicleEF	UBUS	0.01	0.03
tblVehicleEF	UBUS	0.07	2.6830e-003
tblVehicleEF	UBUS	1.4030e-003	1.8900e-004
tblVehicleEF	UBUS	0.22	0.03
tblVehicleEF	UBUS	3.0000e-003	6.3130e-003
tblVehicleEF	UBUS	0.06	2.5510e-003
tblVehicleEF	UBUS	1.2900e-003	1.7400e-004
tblVehicleEF	UBUS	8.0860e-003	1.5320e-003
tblVehicleEF	UBUS	0.11	8.4710e-003
tblVehicleEF	UBUS	3.9450e-003	6.5200e-004
tblVehicleEF	UBUS	0.61	0.06
tblVehicleEF	UBUS	0.02	0.04
tblVehicleEF	UBUS	1.15	0.06
tblVehicleEF	UBUS	0.01	3.8820e-003
tblVehicleEF	UBUS	1.6240e-003	1.6700e-004
tblVehicleEF	UBUS	8.0860e-003	1.5320e-003
tblVehicleEF	UBUS	0.11	8.4710e-003

tblVehicleEF	UBUS	3.9450e-003	6.5200e-004
tblVehicleEF	UBUS	2.50	4.28
tblVehicleEF	UBUS	0.02	0.04
tblVehicleEF	UBUS	1.25	0.07
tblVehicleEF	UBUS	1.83	4.19
tblVehicleEF	UBUS	0.08	0.01
tblVehicleEF	UBUS	9.36	32.67
tblVehicleEF	UBUS	11.74	1.17
tblVehicleEF	UBUS	1,846.39	1,724.94
tblVehicleEF	UBUS	136.37	16.47
tblVehicleEF	UBUS	5.45	0.37
tblVehicleEF	UBUS	0.52	0.08
tblVehicleEF	UBUS	0.01	0.03
tblVehicleEF	UBUS	0.07	2.6830e-003
tblVehicleEF	UBUS	1.4030e-003	1.8900e-004
tblVehicleEF	UBUS	0.22	0.03
tblVehicleEF	UBUS	3.0000e-003	6.3130e-003
tblVehicleEF	UBUS	0.06	2.5510e-003
tblVehicleEF	UBUS	1.2900e-003	1.7400e-004
tblVehicleEF	UBUS	0.02	2.9020e-003
tblVehicleEF	UBUS	0.14	0.01
tblVehicleEF	UBUS	9.3320e-003	1.4770e-003
tblVehicleEF	UBUS	0.62	0.06
tblVehicleEF	UBUS	0.02	0.04
tblVehicleEF	UBUS	1.02	0.06
tblVehicleEF	UBUS	0.01	3.8820e-003
tblVehicleEF	UBUS	1.5790e-003	1.6300e-004

tblVehicleEF	UBUS	0.02	2.9020e-003
tblVehicleEF	UBUS	0.14	0.01
tblVehicleEF	UBUS	9.3320e-003	1.4770e-003
tblVehicleEF	UBUS	2.52	4.28
tblVehicleEF	UBUS	0.02	0.04
tblVehicleEF	UBUS	1.12	0.06
tblVehicleEF	UBUS	1.83	4.19
tblVehicleEF	UBUS	0.08	0.02
tblVehicleEF	UBUS	9.27	32.67
tblVehicleEF	UBUS	13.86	1.39
tblVehicleEF	UBUS	1,846.39	1,724.94
tblVehicleEF	UBUS	136.37	16.85
tblVehicleEF	UBUS	5.76	0.37
tblVehicleEF	UBUS	0.52	0.08
tblVehicleEF	UBUS	0.01	0.03
tblVehicleEF	UBUS	0.07	2.6830e-003
tblVehicleEF	UBUS	1.4030e-003	1.8900e-004
tblVehicleEF	UBUS	0.22	0.03
tblVehicleEF	UBUS	3.0000e-003	6.3130e-003
tblVehicleEF	UBUS	0.06	2.5510e-003
tblVehicleEF	UBUS	1.2900e-003	1.7400e-004
tblVehicleEF	UBUS	9.2250e-003	1.6220e-003
tblVehicleEF	UBUS	0.14	9.7130e-003
tblVehicleEF	UBUS	4.1190e-003	6.4800e-004
tblVehicleEF	UBUS	0.61	0.06
tblVehicleEF	UBUS	0.03	0.04
tblVehicleEF	UBUS	1.13	0.06

tblVehicleEF	UBUS	0.01	3.8820e-003
tblVehicleEF	UBUS	1.6160e-003	1.6700e-004
tblVehicleEF	UBUS	9.2250e-003	1.6220e-003
tblVehicleEF	UBUS	0.14	9.7130e-003
tblVehicleEF	UBUS	4.1190e-003	6.4800e-004
tblVehicleEF	UBUS	2.50	4.28
tblVehicleEF	UBUS	0.03	0.04
tblVehicleEF	UBUS	1.24	0.07
tblVehicleTrips	CNW_TTP	41.00	0.00
tblVehicleTrips	CW_TL	16.60	14.00
tblVehicleTrips	CW_TTP	59.00	100.00
tblVehicleTrips	DV_TP	5.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PR_TP	92.00	100.00
tblVehicleTrips	ST_TR	1.68	0.64
tblVehicleTrips	SU_TR	1.68	0.59
tblVehicleTrips	WD_TR	1.68	0.95

2.0 Emissions Summary

2.1 Overall Construction

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2021	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Maximum	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2021	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Maximum	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
		Highest		

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	3.1335	2.0000e-004	0.0218	0.0000		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005	0.0000	0.0424	0.0424	1.1000e-004	0.0000	0.0452
Energy	5.8200e-003	0.0529	0.0444	3.2000e-004		4.0200e-003	4.0200e-003		4.0200e-003	4.0200e-003	0.0000	532.2943	532.2943	0.0207	5.1100e-003	534.3348
Mobile	0.2833	0.2612	3.5521	0.0108	1.2218	5.9700e-003	1.2278	0.3244	5.5000e-003	0.3299	0.0000	988.7534	988.7534	0.0258	0.0000	989.3983
Offroad	0.0668	0.6940	0.4153	1.7400e-003		0.0240	0.0240		0.0220	0.0220	0.0000	152.3765	152.3765	0.0493	0.0000	153.6085
Waste						0.0000	0.0000		0.0000	0.0000	143.9510	0.0000	143.9510	8.5073	0.0000	356.6326
Water						0.0000	0.0000		0.0000	0.0000	55.3473	723.7832	779.1305	5.7146	0.1404	963.8371
Total	**3.4894**	**1.0083**	**4.0337**	**0.0128**	**1.2218**	**0.0340**	**1.2558**	**0.3244**	**0.0316**	**0.3560**	**199.2983**	**2,397.2497**	**2,596.5480**	**14.3177**	**0.1455**	**2,997.8564**

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	3.1335	2.0000e-004	0.0218	0.0000		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005	0.0000	0.0424	0.0424	1.1000e-004	0.0000	0.0452
Energy	5.8200e-003	0.0529	0.0444	3.2000e-004		4.0200e-003	4.0200e-003		4.0200e-003	4.0200e-003	0.0000	532.2943	532.2943	0.0207	5.1100e-003	534.3348
Mobile	0.2833	0.2612	3.5521	0.0108	1.2218	5.9700e-003	1.2278	0.3244	5.5000e-003	0.3299	0.0000	988.7534	988.7534	0.0258	0.0000	989.3983
Offroad	0.0668	0.6940	0.4153	1.7400e-003		0.0240	0.0240		0.0220	0.0220	0.0000	152.3765	152.3765	0.0493	0.0000	153.6085
Waste						0.0000	0.0000		0.0000	0.0000	143.9510	0.0000	143.9510	8.5073	0.0000	356.6326
Water						0.0000	0.0000		0.0000	0.0000	55.3473	723.7832	779.1305	5.7146	0.1404	963.8371
Total	**3.4894**	**1.0083**	**4.0337**	**0.0128**	**1.2218**	**0.0340**	**1.2558**	**0.3244**	**0.0316**	**0.3560**	**199.2983**	**2,397.2497**	**2,596.5480**	**14.3177**	**0.1455**	**2,997.8564**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	6/1/2021	5/31/2021	5	0	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 16.3

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	0	8.00	81	0.73
Demolition	Excavators	0	8.00	158	0.38
Demolition	Rubber Tired Dozers	0	8.00	247	0.40

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	0	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Demolition - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

3.2 Demolition - 2021

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.2833	0.2612	3.5521	0.0108	1.2218	5.9700e-003	1.2278	0.3244	5.5000e-003	0.3299	0.0000	988.7534	988.7534	0.0258	0.0000	989.3983
Unmitigated	0.2833	0.2612	3.5521	0.0108	1.2218	5.9700e-003	1.2278	0.3244	5.5000e-003	0.3299	0.0000	988.7534	988.7534	0.0258	0.0000	989.3983

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Other Asphalt Surfaces	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Unrefrigerated Warehouse-No Rail	716.01	479.88	444.20	3,278,998	3,278,998
Total	716.01	479.88	444.20	3,278,998	3,278,998

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Other Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Other Non-Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Parking Lot	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Unrefrigerated Warehouse-No	14.00	8.40	6.90	100.00	0.00	0.00	100	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Other Asphalt Surfaces	0.553113	0.036408	0.180286	0.116335	0.016165	0.005101	0.018218	0.063797	0.001357	0.001565	0.005903	0.000808	0.000944
Other Non-Asphalt Surfaces	0.553113	0.036408	0.180286	0.116335	0.016165	0.005101	0.018218	0.063797	0.001357	0.001565	0.005903	0.000808	0.000944
Parking Lot	0.553113	0.036408	0.180286	0.116335	0.016165	0.005101	0.018218	0.063797	0.001357	0.001565	0.005903	0.000808	0.000944
Unrefrigerated Warehouse-No Rail	0.624200	0.041100	0.203500	0.131200	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	474.7253	474.7253	0.0196	4.0500e-003	476.4236
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	474.7253	474.7253	0.0196	4.0500e-003	476.4236
NaturalGas Mitigated	5.8200e-003	0.0529	0.0444	3.2000e-004		4.0200e-003	4.0200e-003		4.0200e-003	4.0200e-003	0.0000	57.5691	57.5691	1.1000e-003	1.0600e-003	57.9112
NaturalGas Unmitigated	5.8200e-003	0.0529	0.0444	3.2000e-004		4.0200e-003	4.0200e-003		4.0200e-003	4.0200e-003	0.0000	57.5691	57.5691	1.1000e-003	1.0600e-003	57.9112

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	1.0788e+006	5.8200e-003	0.0529	0.0444	3.2000e-004		4.0200e-003	4.0200e-003		4.0200e-003	4.0200e-003	0.0000	57.5691	57.5691	1.1000e-003	1.0600e-003	57.9112
Total		**5.8200e-003**	**0.0529**	**0.0444**	**3.2000e-004**		**4.0200e-003**	**4.0200e-003**		**4.0200e-003**	**4.0200e-003**	**0.0000**	**57.5691**	**57.5691**	**1.1000e-003**	**1.0600e-003**	**57.9112**

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	1.0788e+006	5.8200e-003	0.0529	0.0444	3.2000e-004		4.0200e-003	4.0200e-003		4.0200e-003	4.0200e-003	0.0000	57.5691	57.5691	1.1000e-003	1.0600e-003	57.9112
Total		**5.8200e-003**	**0.0529**	**0.0444**	**3.2000e-004**		**4.0200e-003**	**4.0200e-003**		**4.0200e-003**	**4.0200e-003**	**0.0000**	**57.5691**	**57.5691**	**1.1000e-003**	**1.0600e-003**	**57.9112**

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	56560	18.0212	7.4000e-004	1.5000e-004	18.0857
Unrefrigerated Warehouse-No Rail	1.43338e+006	456.7041	0.0189	3.9000e-003	458.3379
Total		**474.7253**	**0.0196**	**4.0500e-003**	**476.4236**

5.3 Energy by Land Use - Electricity

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	56560	18.0212	7.4000e-004	1.5000e-004	18.0857
Unrefrigerated Warehouse-No Rail	1.43338e+006	456.7041	0.0189	3.9000e-003	458.3379
Total		**474.7253**	**0.0196**	**4.0500e-003**	**476.4236**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	3.1335	2.0000e-004	0.0218	0.0000		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005	0.0000	0.0424	0.0424	1.1000e-004	0.0000	0.0452
Unmitigated	3.1335	2.0000e-004	0.0218	0.0000		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005	0.0000	0.0424	0.0424	1.1000e-004	0.0000	0.0452

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.3595					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	2.7720					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	2.0300e-003	2.0000e-004	0.0218	0.0000		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005	0.0000	0.0424	0.0424	1.1000e-004	0.0000	0.0452
Total	**3.1335**	**2.0000e-004**	**0.0218**	**0.0000**		**8.0000e-005**	**8.0000e-005**		**8.0000e-005**	**8.0000e-005**	**0.0000**	**0.0424**	**0.0424**	**1.1000e-004**	**0.0000**	**0.0452**

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.3595					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	2.7720					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	2.0300e-003	2.0000e-004	0.0218	0.0000		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005	0.0000	0.0424	0.0424	1.1000e-004	0.0000	0.0452
Total	**3.1335**	**2.0000e-004**	**0.0218**	**0.0000**		**8.0000e-005**	**8.0000e-005**		**8.0000e-005**	**8.0000e-005**	**0.0000**	**0.0424**	**0.0424**	**1.1000e-004**	**0.0000**	**0.0452**

7.0 Water Detail

7.1 Mitigation Measures Water

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	779.1305	5.7146	0.1404	963.8371
Unmitigated	779.1305	5.7146	0.1404	963.8371

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	174.457 / 0	779.1305	5.7146	0.1404	963.8371
Total		**779.1305**	**5.7146**	**0.1404**	**963.8371**

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	174.457 / 0	779.1305	5.7146	0.1404	963.8371
Total		**779.1305**	**5.7146**	**0.1404**	**963.8371**

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	143.9510	8.5073	0.0000	356.6326
Unmitigated	143.9510	8.5073	0.0000	356.6326

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	709.15	143.9510	8.5073	0.0000	356.6326
Total		**143.9510**	**8.5073**	**0.0000**	**356.6326**

8.2 Waste by Land Use

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	709.15	143.9510	8.5073	0.0000	356.6326
Total		**143.9510**	**8.5073**	**0.0000**	**356.6326**

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
Tractors/Loaders/Backhoes	3	4.00	365	200	0.37	CNG

UnMitigated/Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Equipment Type	tons/yr										MT/yr					
Tractors/Loaders/ Backhoes	0.0668	0.6940	0.4153	1.7400e-003		0.0240	0.0240		0.0220	0.0220	0.0000	152.3765	152.3765	0.0493	0.0000	153.6085
Total	**0.0668**	**0.6940**	**0.4153**	**1.7400e-003**		**0.0240**	**0.0240**		**0.0220**	**0.0220**	**0.0000**	**152.3765**	**152.3765**	**0.0493**	**0.0000**	**153.6085**

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

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APPENDIX 3.3:

CALEEMOD ANNUAL OPERATIONAL (TRUCKS) EMISSIONS MODEL OUTPUTS

Fontana Foothill Commerce Center (Operations - Trucks)

San Bernardino-South Coast County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Unrefrigerated Warehouse-No Rail	754.41	1000sqft	17.32	754,408.00	0
Other Asphalt Surfaces	415.94	1000sqft	9.55	415,944.00	0
Other Non-Asphalt Surfaces	132.59	1000sqft	3.04	132,592.00	0
Parking Lot	404.00	Space	3.71	161,600.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	32
Climate Zone	10			**Operational Year**	2022
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	702.44	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Fontana Foothill Commerce Center (Operations - Trucks) - San Bernardino-South Coast County, Annual

Project Characteristics -

Land Use - Unrefrigerated Warehouse - No Rail = High-Cube Short-Term Warehouse; Parking Lot = 404 Standard Spaces; Other Non-Asphalt Surfaces = Landscape area; Other Asphalt Surfaces = Balance

Construction Phase - Operations Run Only.

Off-road Equipment - Operations Run Only.

Trips and VMT - Operations Run Only.

Vehicle Trips - Trip Characteristics based on information provided in the Fontana Foothills Commcerce Center Traffic Impact Analysis report by Urban Crossroads, Inc.

Energy Use - The Project will design building shells and building components to meet 2019 Title 24 Standards which expects 30% less energy for nonresidential uses.

Operational Off-Road Equipment - Based on SCAQMD High Cube Warehouse Truck Trip Study White Paper Summary of Busniess Survey Results (2014)

Fleet Mix - Truck Fleet Mix estimated by rationing the Trip Rates for each truck type based on information provided in the TIA.

Vehicle Emission Factors - EMFAC2017

Vehicle Emission Factors - EMFAC2017

Vehicle Emission Factors - EMFAC2017

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	30.00	0.00
tblEnergyUse	LightingElect	1.17	0.82
tblEnergyUse	T24E	0.37	0.26
tblEnergyUse	T24NG	2.00	1.40
tblFleetMix	HHD	0.06	0.63
tblFleetMix	LDA	0.55	0.00
tblFleetMix	LDT1	0.04	0.00
tblFleetMix	LDT2	0.18	0.00
tblFleetMix	LHD1	0.02	0.17
tblFleetMix	LHD2	5.1010e-003	0.00
tblFleetMix	MCY	5.9030e-003	0.00
tblFleetMix	MDV	0.12	0.00

tblFleetMix	MH	9.4400e-004	0.00
tblFleetMix	MHD	0.02	0.21
tblFleetMix	OBUS	1.3570e-003	0.00
tblFleetMix	SBUS	8.0800e-004	0.00
tblFleetMix	UBUS	1.5650e-003	0.00
tblLandUse	LotAcreage	3.64	3.71
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOperationalOffRoadEquipment	OperDaysPerYear	260.00	365.00
tblOperationalOffRoadEquipment	OperFuelType	Diesel	CNG
tblOperationalOffRoadEquipment	OperHorsePower	97.00	200.00
tblOperationalOffRoadEquipment	OperHoursPerDay	8.00	4.00
tblOperationalOffRoadEquipment	OperOffRoadEquipmentNumber	0.00	3.00
tblVehicleEF	HHD	1.21	0.03
tblVehicleEF	HHD	0.04	0.06
tblVehicleEF	HHD	0.10	0.00
tblVehicleEF	HHD	3.29	8.22
tblVehicleEF	HHD	0.57	0.40
tblVehicleEF	HHD	1.82	2.2600e-003
tblVehicleEF	HHD	6,933.41	1,478.27
tblVehicleEF	HHD	1,475.79	1,372.23
tblVehicleEF	HHD	5.54	0.02
tblVehicleEF	HHD	26.50	7.64
tblVehicleEF	HHD	2.50	2.77
tblVehicleEF	HHD	9.7780e-003	3.7640e-003
tblVehicleEF	HHD	0.06	0.06

tblVehicleEF	HHD	0.04	0.04
tblVehicleEF	HHD	0.01	0.03
tblVehicleEF	HHD	5.1000e-005	1.0000e-006
tblVehicleEF	HHD	9.3550e-003	3.6010e-003
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	8.8810e-003	8.9170e-003
tblVehicleEF	HHD	0.01	0.03
tblVehicleEF	HHD	4.7000e-005	1.0000e-006
tblVehicleEF	HHD	8.5000e-005	3.0000e-006
tblVehicleEF	HHD	3.1910e-003	1.0400e-004
tblVehicleEF	HHD	0.84	0.59
tblVehicleEF	HHD	5.2000e-005	2.0000e-006
tblVehicleEF	HHD	0.08	0.05
tblVehicleEF	HHD	2.1700e-004	5.2200e-004
tblVehicleEF	HHD	0.05	1.0000e-006
tblVehicleEF	HHD	0.07	0.01
tblVehicleEF	HHD	0.01	0.01
tblVehicleEF	HHD	8.6000e-005	0.00
tblVehicleEF	HHD	8.5000e-005	3.0000e-006
tblVehicleEF	HHD	3.1910e-003	1.0400e-004
tblVehicleEF	HHD	0.97	0.67
tblVehicleEF	HHD	5.2000e-005	2.0000e-006
tblVehicleEF	HHD	0.13	0.12
tblVehicleEF	HHD	2.1700e-004	5.2200e-004
tblVehicleEF	HHD	0.06	1.0000e-006
tblVehicleEF	HHD	1.14	0.03
tblVehicleEF	HHD	0.04	0.06

tblVehicleEF	HHD	0.09	0.00
tblVehicleEF	HHD	2.39	8.07
tblVehicleEF	HHD	0.57	0.40
tblVehicleEF	HHD	1.70	2.1220e-003
tblVehicleEF	HHD	7,345.18	1,469.16
tblVehicleEF	HHD	1,475.79	1,372.23
tblVehicleEF	HHD	5.54	0.02
tblVehicleEF	HHD	27.35	7.37
tblVehicleEF	HHD	2.36	2.60
tblVehicleEF	HHD	8.2750e-003	3.3440e-003
tblVehicleEF	HHD	0.06	0.06
tblVehicleEF	HHD	0.04	0.04
tblVehicleEF	HHD	0.01	0.03
tblVehicleEF	HHD	5.1000e-005	1.0000e-006
tblVehicleEF	HHD	7.9170e-003	3.2000e-003
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	8.8810e-003	8.9170e-003
tblVehicleEF	HHD	0.01	0.03
tblVehicleEF	HHD	4.7000e-005	1.0000e-006
tblVehicleEF	HHD	1.6800e-004	7.0000e-006
tblVehicleEF	HHD	3.5970e-003	1.2200e-004
tblVehicleEF	HHD	0.79	0.62
tblVehicleEF	HHD	1.1700e-004	5.0000e-006
tblVehicleEF	HHD	0.08	0.05
tblVehicleEF	HHD	2.2100e-004	5.3900e-004
tblVehicleEF	HHD	0.05	1.0000e-006
tblVehicleEF	HHD	0.07	0.01

tblVehicleEF	HHD	0.01	0.01
tblVehicleEF	HHD	8.4000e-005	0.00
tblVehicleEF	HHD	1.6800e-004	7.0000e-006
tblVehicleEF	HHD	3.5970e-003	1.2200e-004
tblVehicleEF	HHD	0.91	0.71
tblVehicleEF	HHD	1.1700e-004	5.0000e-006
tblVehicleEF	HHD	0.13	0.12
tblVehicleEF	HHD	2.2100e-004	5.3900e-004
tblVehicleEF	HHD	0.06	1.0000e-006
tblVehicleEF	HHD	1.31	0.03
tblVehicleEF	HHD	0.04	2.3610e-003
tblVehicleEF	HHD	0.10	0.00
tblVehicleEF	HHD	4.53	8.37
tblVehicleEF	HHD	0.57	0.25
tblVehicleEF	HHD	1.79	2.2320e-003
tblVehicleEF	HHD	6,364.76	1,476.72
tblVehicleEF	HHD	1,475.79	1,332.53
tblVehicleEF	HHD	5.54	0.02
tblVehicleEF	HHD	25.32	7.94
tblVehicleEF	HHD	2.46	2.69
tblVehicleEF	HHD	0.01	4.1670e-003
tblVehicleEF	HHD	0.06	0.06
tblVehicleEF	HHD	0.04	0.04
tblVehicleEF	HHD	0.01	0.03
tblVehicleEF	HHD	5.1000e-005	1.0000e-006
tblVehicleEF	HHD	0.01	3.9860e-003
tblVehicleEF	HHD	0.03	0.03

tblVehicleEF	HHD	8.8810e-003	8.8160e-003
tblVehicleEF	HHD	0.01	0.03
tblVehicleEF	HHD	4.7000e-005	1.0000e-006
tblVehicleEF	HHD	8.5000e-005	4.0000e-006
tblVehicleEF	HHD	3.4760e-003	1.2300e-004
tblVehicleEF	HHD	0.91	0.54
tblVehicleEF	HHD	5.2000e-005	2.0000e-006
tblVehicleEF	HHD	0.08	0.05
tblVehicleEF	HHD	2.3300e-004	5.4600e-004
tblVehicleEF	HHD	0.05	1.0000e-006
tblVehicleEF	HHD	0.06	0.01
tblVehicleEF	HHD	0.01	0.01
tblVehicleEF	HHD	8.5000e-005	0.00
tblVehicleEF	HHD	8.5000e-005	4.0000e-006
tblVehicleEF	HHD	3.4760e-003	1.2300e-004
tblVehicleEF	HHD	1.05	0.62
tblVehicleEF	HHD	5.2000e-005	2.0000e-006
tblVehicleEF	HHD	0.13	0.06
tblVehicleEF	HHD	2.3300e-004	5.4600e-004
tblVehicleEF	HHD	0.06	1.0000e-006
tblVehicleEF	LDA	4.2030e-003	2.4360e-003
tblVehicleEF	LDA	5.6230e-003	0.05
tblVehicleEF	LDA	0.57	0.65
tblVehicleEF	LDA	1.19	2.16
tblVehicleEF	LDA	251.29	261.47
tblVehicleEF	LDA	57.15	53.86
tblVehicleEF	LDA	0.05	0.04

tblVehicleEF	LDA	1.6780e-003	1.4470e-003
tblVehicleEF	LDA	2.2790e-003	1.8580e-003
tblVehicleEF	LDA	1.5460e-003	1.3330e-003
tblVehicleEF	LDA	2.0960e-003	1.7080e-003
tblVehicleEF	LDA	0.04	0.06
tblVehicleEF	LDA	0.10	0.10
tblVehicleEF	LDA	0.03	0.05
tblVehicleEF	LDA	0.01	9.3320e-003
tblVehicleEF	LDA	0.03	0.21
tblVehicleEF	LDA	0.08	0.23
tblVehicleEF	LDA	2.5170e-003	2.5870e-003
tblVehicleEF	LDA	5.9200e-004	5.3300e-004
tblVehicleEF	LDA	0.04	0.06
tblVehicleEF	LDA	0.10	0.10
tblVehicleEF	LDA	0.03	0.05
tblVehicleEF	LDA	0.02	0.01
tblVehicleEF	LDA	0.03	0.21
tblVehicleEF	LDA	0.08	0.25
tblVehicleEF	LDA	4.7900e-003	2.7940e-003
tblVehicleEF	LDA	4.6890e-003	0.04
tblVehicleEF	LDA	0.71	0.79
tblVehicleEF	LDA	0.99	1.79
tblVehicleEF	LDA	274.94	285.54
tblVehicleEF	LDA	57.15	53.16
tblVehicleEF	LDA	0.05	0.04
tblVehicleEF	LDA	1.6780e-003	1.4470e-003
tblVehicleEF	LDA	2.2790e-003	1.8580e-003

tblVehicleEF	LDA	1.5460e-003	1.3330e-003
tblVehicleEF	LDA	2.0960e-003	1.7080e-003
tblVehicleEF	LDA	0.09	0.12
tblVehicleEF	LDA	0.12	0.12
tblVehicleEF	LDA	0.07	0.10
tblVehicleEF	LDA	0.01	0.01
tblVehicleEF	LDA	0.03	0.21
tblVehicleEF	LDA	0.06	0.19
tblVehicleEF	LDA	2.7550e-003	2.8250e-003
tblVehicleEF	LDA	5.8800e-004	5.2600e-004
tblVehicleEF	LDA	0.09	0.12
tblVehicleEF	LDA	0.12	0.12
tblVehicleEF	LDA	0.07	0.10
tblVehicleEF	LDA	0.02	0.02
tblVehicleEF	LDA	0.03	0.21
tblVehicleEF	LDA	0.07	0.21
tblVehicleEF	LDA	4.0860e-003	2.3760e-003
tblVehicleEF	LDA	5.5870e-003	0.05
tblVehicleEF	LDA	0.54	0.61
tblVehicleEF	LDA	1.18	2.12
tblVehicleEF	LDA	245.70	255.84
tblVehicleEF	LDA	57.15	53.80
tblVehicleEF	LDA	0.05	0.04
tblVehicleEF	LDA	1.6780e-003	1.4470e-003
tblVehicleEF	LDA	2.2790e-003	1.8580e-003
tblVehicleEF	LDA	1.5460e-003	1.3330e-003
tblVehicleEF	LDA	2.0960e-003	1.7080e-003

tblVehicleEF	LDA	0.05	0.06
tblVehicleEF	LDA	0.11	0.11
tblVehicleEF	LDA	0.03	0.05
tblVehicleEF	LDA	0.01	9.0880e-003
tblVehicleEF	LDA	0.04	0.24
tblVehicleEF	LDA	0.08	0.23
tblVehicleEF	LDA	2.4600e-003	2.5310e-003
tblVehicleEF	LDA	5.9100e-004	5.3200e-004
tblVehicleEF	LDA	0.05	0.06
tblVehicleEF	LDA	0.11	0.11
tblVehicleEF	LDA	0.03	0.05
tblVehicleEF	LDA	0.01	0.01
tblVehicleEF	LDA	0.04	0.24
tblVehicleEF	LDA	0.08	0.25
tblVehicleEF	LDT1	0.01	7.0610e-003
tblVehicleEF	LDT1	0.02	0.08
tblVehicleEF	LDT1	1.54	1.44
tblVehicleEF	LDT1	3.61	2.44
tblVehicleEF	LDT1	313.68	310.02
tblVehicleEF	LDT1	70.93	65.50
tblVehicleEF	LDT1	0.16	0.13
tblVehicleEF	LDT1	2.7050e-003	2.1940e-003
tblVehicleEF	LDT1	3.6920e-003	2.8520e-003
tblVehicleEF	LDT1	2.4910e-003	2.0190e-003
tblVehicleEF	LDT1	3.3960e-003	2.6220e-003
tblVehicleEF	LDT1	0.18	0.19
tblVehicleEF	LDT1	0.33	0.26

tblVehicleEF	LDT1	0.13	0.13
tblVehicleEF	LDT1	0.03	0.03
tblVehicleEF	LDT1	0.20	0.88
tblVehicleEF	LDT1	0.26	0.43
tblVehicleEF	LDT1	3.1570e-003	3.0680e-003
tblVehicleEF	LDT1	7.7300e-004	6.4800e-004
tblVehicleEF	LDT1	0.18	0.19
tblVehicleEF	LDT1	0.33	0.26
tblVehicleEF	LDT1	0.13	0.13
tblVehicleEF	LDT1	0.05	0.05
tblVehicleEF	LDT1	0.20	0.88
tblVehicleEF	LDT1	0.28	0.48
tblVehicleEF	LDT1	0.02	8.0100e-003
tblVehicleEF	LDT1	0.02	0.07
tblVehicleEF	LDT1	1.85	1.74
tblVehicleEF	LDT1	2.97	2.02
tblVehicleEF	LDT1	341.75	335.16
tblVehicleEF	LDT1	70.93	64.59
tblVehicleEF	LDT1	0.14	0.12
tblVehicleEF	LDT1	2.7050e-003	2.1940e-003
tblVehicleEF	LDT1	3.6920e-003	2.8520e-003
tblVehicleEF	LDT1	2.4910e-003	2.0190e-003
tblVehicleEF	LDT1	3.3960e-003	2.6220e-003
tblVehicleEF	LDT1	0.37	0.40
tblVehicleEF	LDT1	0.41	0.33
tblVehicleEF	LDT1	0.27	0.29
tblVehicleEF	LDT1	0.04	0.04

tblVehicleEF	LDT1	0.20	0.88
tblVehicleEF	LDT1	0.21	0.36
tblVehicleEF	LDT1	3.4420e-003	3.3170e-003
tblVehicleEF	LDT1	7.6200e-004	6.3900e-004
tblVehicleEF	LDT1	0.37	0.40
tblVehicleEF	LDT1	0.41	0.33
tblVehicleEF	LDT1	0.27	0.29
tblVehicleEF	LDT1	0.06	0.05
tblVehicleEF	LDT1	0.20	0.88
tblVehicleEF	LDT1	0.23	0.40
tblVehicleEF	LDT1	0.01	6.8960e-003
tblVehicleEF	LDT1	0.02	0.08
tblVehicleEF	LDT1	1.47	1.37
tblVehicleEF	LDT1	3.55	2.40
tblVehicleEF	LDT1	307.06	304.06
tblVehicleEF	LDT1	70.93	65.42
tblVehicleEF	LDT1	0.15	0.12
tblVehicleEF	LDT1	2.7050e-003	2.1940e-003
tblVehicleEF	LDT1	3.6920e-003	2.8520e-003
tblVehicleEF	LDT1	2.4910e-003	2.0190e-003
tblVehicleEF	LDT1	3.3960e-003	2.6220e-003
tblVehicleEF	LDT1	0.19	0.20
tblVehicleEF	LDT1	0.39	0.30
tblVehicleEF	LDT1	0.12	0.12
tblVehicleEF	LDT1	0.03	0.03
tblVehicleEF	LDT1	0.23	1.03
tblVehicleEF	LDT1	0.25	0.43

tblVehicleEF	LDT1	3.0890e-003	3.0090e-003
tblVehicleEF	LDT1	7.7200e-004	6.4700e-004
tblVehicleEF	LDT1	0.19	0.20
tblVehicleEF	LDT1	0.39	0.30
tblVehicleEF	LDT1	0.12	0.12
tblVehicleEF	LDT1	0.05	0.04
tblVehicleEF	LDT1	0.23	1.03
tblVehicleEF	LDT1	0.28	0.47
tblVehicleEF	LDT2	6.3270e-003	4.2800e-003
tblVehicleEF	LDT2	8.1990e-003	0.07
tblVehicleEF	LDT2	0.80	0.97
tblVehicleEF	LDT2	1.67	2.78
tblVehicleEF	LDT2	351.15	331.49
tblVehicleEF	LDT2	79.39	70.30
tblVehicleEF	LDT2	0.09	0.09
tblVehicleEF	LDT2	1.7270e-003	1.5180e-003
tblVehicleEF	LDT2	2.4170e-003	1.9480e-003
tblVehicleEF	LDT2	1.5880e-003	1.3970e-003
tblVehicleEF	LDT2	2.2220e-003	1.7910e-003
tblVehicleEF	LDT2	0.06	0.10
tblVehicleEF	LDT2	0.13	0.15
tblVehicleEF	LDT2	0.05	0.08
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.07	0.48
tblVehicleEF	LDT2	0.11	0.35
tblVehicleEF	LDT2	3.5180e-003	3.2800e-003
tblVehicleEF	LDT2	8.2200e-004	6.9600e-004

tblVehicleEF	LDT2	0.06	0.10
tblVehicleEF	LDT2	0.13	0.15
tblVehicleEF	LDT2	0.05	0.08
tblVehicleEF	LDT2	0.02	0.03
tblVehicleEF	LDT2	0.07	0.48
tblVehicleEF	LDT2	0.12	0.38
tblVehicleEF	LDT2	7.1840e-003	4.8870e-003
tblVehicleEF	LDT2	6.8290e-003	0.06
tblVehicleEF	LDT2	0.97	1.18
tblVehicleEF	LDT2	1.38	2.30
tblVehicleEF	LDT2	383.36	355.94
tblVehicleEF	LDT2	79.39	69.35
tblVehicleEF	LDT2	0.08	0.08
tblVehicleEF	LDT2	1.7270e-003	1.5180e-003
tblVehicleEF	LDT2	2.4170e-003	1.9480e-003
tblVehicleEF	LDT2	1.5880e-003	1.3970e-003
tblVehicleEF	LDT2	2.2220e-003	1.7910e-003
tblVehicleEF	LDT2	0.13	0.21
tblVehicleEF	LDT2	0.15	0.18
tblVehicleEF	LDT2	0.11	0.18
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.07	0.48
tblVehicleEF	LDT2	0.09	0.29
tblVehicleEF	LDT2	3.8420e-003	3.5220e-003
tblVehicleEF	LDT2	8.1700e-004	6.8600e-004
tblVehicleEF	LDT2	0.13	0.21
tblVehicleEF	LDT2	0.15	0.18

tblVehicleEF	LDT2	0.11	0.18
tblVehicleEF	LDT2	0.03	0.03
tblVehicleEF	LDT2	0.07	0.48
tblVehicleEF	LDT2	0.10	0.32
tblVehicleEF	LDT2	6.1560e-003	4.1770e-003
tblVehicleEF	LDT2	8.1410e-003	0.07
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tblVehicleEF	LDT2	79.39	70.22
tblVehicleEF	LDT2	0.08	0.09
tblVehicleEF	LDT2	1.7270e-003	1.5180e-003
tblVehicleEF	LDT2	2.4170e-003	1.9480e-003
tblVehicleEF	LDT2	1.5880e-003	1.3970e-003
tblVehicleEF	LDT2	2.2220e-003	1.7910e-003
tblVehicleEF	LDT2	0.06	0.10
tblVehicleEF	LDT2	0.14	0.16
tblVehicleEF	LDT2	0.05	0.08
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.08	0.56
tblVehicleEF	LDT2	0.11	0.35
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tblVehicleEF	LDT2	8.2200e-004	6.9500e-004
tblVehicleEF	LDT2	0.06	0.10
tblVehicleEF	LDT2	0.14	0.16
tblVehicleEF	LDT2	0.05	0.08
tblVehicleEF	LDT2	0.02	0.03

tblVehicleEF	LDT2	0.08	0.56
tblVehicleEF	LDT2	0.12	0.38
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tblVehicleEF	LHD1	0.01	6.5090e-003
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	0.14	0.17
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tblVehicleEF	LHD1	2.60	1.03
tblVehicleEF	LHD1	9.23	9.35
tblVehicleEF	LHD1	609.20	648.62
tblVehicleEF	LHD1	30.40	10.79
tblVehicleEF	LHD1	0.09	0.08
tblVehicleEF	LHD1	2.12	1.54
tblVehicleEF	LHD1	9.6500e-004	9.5300e-004
tblVehicleEF	LHD1	0.01	9.9680e-003
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	9.5800e-004	2.6300e-004
tblVehicleEF	LHD1	9.2400e-004	9.1200e-004
tblVehicleEF	LHD1	2.5390e-003	2.4920e-003
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	8.8100e-004	2.4200e-004
tblVehicleEF	LHD1	3.7070e-003	3.1750e-003
tblVehicleEF	LHD1	0.11	0.09
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	1.8240e-003	1.5420e-003
tblVehicleEF	LHD1	0.08	0.07
tblVehicleEF	LHD1	0.35	0.60

tblVehicleEF	LHD1	0.27	0.08
tblVehicleEF	LHD1	9.2000e-005	9.0000e-005
tblVehicleEF	LHD1	5.9760e-003	6.3130e-003
tblVehicleEF	LHD1	3.5300e-004	1.0700e-004
tblVehicleEF	LHD1	3.7070e-003	3.1750e-003
tblVehicleEF	LHD1	0.11	0.09
tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	1.8240e-003	1.5420e-003
tblVehicleEF	LHD1	0.10	0.08
tblVehicleEF	LHD1	0.35	0.60
tblVehicleEF	LHD1	0.29	0.09
tblVehicleEF	LHD1	5.2170e-003	4.8790e-003
tblVehicleEF	LHD1	0.01	6.6670e-003
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	0.14	0.17
tblVehicleEF	LHD1	1.09	0.90
tblVehicleEF	LHD1	2.43	0.97
tblVehicleEF	LHD1	9.23	9.35
tblVehicleEF	LHD1	609.20	648.66
tblVehicleEF	LHD1	30.40	10.67
tblVehicleEF	LHD1	0.09	0.08
tblVehicleEF	LHD1	1.98	1.44
tblVehicleEF	LHD1	9.6500e-004	9.5300e-004
tblVehicleEF	LHD1	0.01	9.9680e-003
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	9.5800e-004	2.6300e-004
tblVehicleEF	LHD1	9.2400e-004	9.1200e-004

tblVehicleEF	LHD1	2.5390e-003	2.4920e-003
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	8.8100e-004	2.4200e-004
tblVehicleEF	LHD1	7.3080e-003	6.2980e-003
tblVehicleEF	LHD1	0.13	0.11
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	4.1220e-003	3.5370e-003
tblVehicleEF	LHD1	0.09	0.07
tblVehicleEF	LHD1	0.36	0.60
tblVehicleEF	LHD1	0.25	0.08
tblVehicleEF	LHD1	9.2000e-005	9.0000e-005
tblVehicleEF	LHD1	5.9770e-003	6.3140e-003
tblVehicleEF	LHD1	3.5000e-004	1.0600e-004
tblVehicleEF	LHD1	7.3080e-003	6.2980e-003
tblVehicleEF	LHD1	0.13	0.11
tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	4.1220e-003	3.5370e-003
tblVehicleEF	LHD1	0.11	0.09
tblVehicleEF	LHD1	0.36	0.60
tblVehicleEF	LHD1	0.28	0.08
tblVehicleEF	LHD1	5.2170e-003	4.8670e-003
tblVehicleEF	LHD1	0.01	6.5250e-003
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	0.14	0.17
tblVehicleEF	LHD1	1.07	0.89
tblVehicleEF	LHD1	2.55	1.02
tblVehicleEF	LHD1	9.23	9.35

tblVehicleEF	LHD1	609.20	648.63
tblVehicleEF	LHD1	30.40	10.76
tblVehicleEF	LHD1	0.09	0.08
tblVehicleEF	LHD1	2.08	1.51
tblVehicleEF	LHD1	9.6500e-004	9.5300e-004
tblVehicleEF	LHD1	0.01	9.9680e-003
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	9.5800e-004	2.6300e-004
tblVehicleEF	LHD1	9.2400e-004	9.1200e-004
tblVehicleEF	LHD1	2.5390e-003	2.4920e-003
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	8.8100e-004	2.4200e-004
tblVehicleEF	LHD1	4.0430e-003	3.5090e-003
tblVehicleEF	LHD1	0.13	0.10
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	1.7940e-003	1.5200e-003
tblVehicleEF	LHD1	0.08	0.07
tblVehicleEF	LHD1	0.38	0.64
tblVehicleEF	LHD1	0.26	0.08
tblVehicleEF	LHD1	9.2000e-005	9.0000e-005
tblVehicleEF	LHD1	5.9760e-003	6.3130e-003
tblVehicleEF	LHD1	3.5200e-004	1.0600e-004
tblVehicleEF	LHD1	4.0430e-003	3.5090e-003
tblVehicleEF	LHD1	0.13	0.10
tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	1.7940e-003	1.5200e-003
tblVehicleEF	LHD1	0.10	0.08

tblVehicleEF	LHD1	0.38	0.64
tblVehicleEF	LHD1	0.29	0.09
tblVehicleEF	LHD2	3.5950e-003	3.3090e-003
tblVehicleEF	LHD2	4.6110e-003	4.1580e-003
tblVehicleEF	LHD2	8.1370e-003	9.5080e-003
tblVehicleEF	LHD2	0.12	0.14
tblVehicleEF	LHD2	0.50	0.56
tblVehicleEF	LHD2	1.20	0.61
tblVehicleEF	LHD2	14.27	14.55
tblVehicleEF	LHD2	608.52	648.96
tblVehicleEF	LHD2	24.46	7.78
tblVehicleEF	LHD2	0.11	0.11
tblVehicleEF	LHD2	1.49	1.65
tblVehicleEF	LHD2	1.2830e-003	1.4030e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	4.0000e-004	1.2600e-004
tblVehicleEF	LHD2	1.2280e-003	1.3430e-003
tblVehicleEF	LHD2	2.6860e-003	2.6930e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	3.6800e-004	1.1600e-004
tblVehicleEF	LHD2	1.3070e-003	1.5580e-003
tblVehicleEF	LHD2	0.04	0.05
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	7.0300e-004	8.0000e-004
tblVehicleEF	LHD2	0.06	0.06
tblVehicleEF	LHD2	0.09	0.29

tblVehicleEF	LHD2	0.11	0.05
tblVehicleEF	LHD2	5.9200e-003	6.2610e-003
tblVehicleEF	LHD2	2.6700e-004	7.7000e-005
tblVehicleEF	LHD2	1.3070e-003	1.5580e-003
tblVehicleEF	LHD2	0.04	0.05
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	7.0300e-004	8.0000e-004
tblVehicleEF	LHD2	0.07	0.07
tblVehicleEF	LHD2	0.09	0.29
tblVehicleEF	LHD2	0.12	0.05
tblVehicleEF	LHD2	3.5950e-003	3.3190e-003
tblVehicleEF	LHD2	4.6760e-003	4.2030e-003
tblVehicleEF	LHD2	7.7630e-003	9.0810e-003
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tblVehicleEF	LHD2	0.50	0.56
tblVehicleEF	LHD2	1.13	0.57
tblVehicleEF	LHD2	14.27	14.55
tblVehicleEF	LHD2	608.52	648.97
tblVehicleEF	LHD2	24.46	7.71
tblVehicleEF	LHD2	0.11	0.11
tblVehicleEF	LHD2	1.40	1.55
tblVehicleEF	LHD2	1.2830e-003	1.4030e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	4.0000e-004	1.2600e-004
tblVehicleEF	LHD2	1.2280e-003	1.3430e-003
tblVehicleEF	LHD2	2.6860e-003	2.6930e-003

tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	3.6800e-004	1.1600e-004
tblVehicleEF	LHD2	2.5220e-003	3.0280e-003
tblVehicleEF	LHD2	0.04	0.06
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	1.5220e-003	1.7650e-003
tblVehicleEF	LHD2	0.06	0.06
tblVehicleEF	LHD2	0.09	0.29
tblVehicleEF	LHD2	0.10	0.04
tblVehicleEF	LHD2	5.9200e-003	6.2610e-003
tblVehicleEF	LHD2	2.6500e-004	7.6000e-005
tblVehicleEF	LHD2	2.5220e-003	3.0280e-003
tblVehicleEF	LHD2	0.04	0.06
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	1.5220e-003	1.7650e-003
tblVehicleEF	LHD2	0.07	0.07
tblVehicleEF	LHD2	0.09	0.29
tblVehicleEF	LHD2	0.11	0.05
tblVehicleEF	LHD2	3.5950e-003	3.3110e-003
tblVehicleEF	LHD2	4.6180e-003	4.1630e-003
tblVehicleEF	LHD2	8.0640e-003	9.4270e-003
tblVehicleEF	LHD2	0.12	0.14
tblVehicleEF	LHD2	0.50	0.56
tblVehicleEF	LHD2	1.19	0.60
tblVehicleEF	LHD2	14.27	14.55
tblVehicleEF	LHD2	608.52	648.96
tblVehicleEF	LHD2	24.46	7.77

tblVehicleEF	LHD2	0.11	0.11
tblVehicleEF	LHD2	1.46	1.62
tblVehicleEF	LHD2	1.2830e-003	1.4030e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	4.0000e-004	1.2600e-004
tblVehicleEF	LHD2	1.2280e-003	1.3430e-003
tblVehicleEF	LHD2	2.6860e-003	2.6930e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	3.6800e-004	1.1600e-004
tblVehicleEF	LHD2	1.3460e-003	1.6400e-003
tblVehicleEF	LHD2	0.04	0.05
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	6.8700e-004	7.8100e-004
tblVehicleEF	LHD2	0.06	0.06
tblVehicleEF	LHD2	0.10	0.31
tblVehicleEF	LHD2	0.11	0.05
tblVehicleEF	LHD2	5.9200e-003	6.2610e-003
tblVehicleEF	LHD2	2.6600e-004	7.7000e-005
tblVehicleEF	LHD2	1.3460e-003	1.6400e-003
tblVehicleEF	LHD2	0.04	0.05
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	6.8700e-004	7.8100e-004
tblVehicleEF	LHD2	0.07	0.07
tblVehicleEF	LHD2	0.10	0.31
tblVehicleEF	LHD2	0.12	0.05
tblVehicleEF	MCY	0.43	0.33

tblVehicleEF	MCY	0.16	0.25
tblVehicleEF	MCY	20.55	20.74
tblVehicleEF	MCY	9.93	8.78
tblVehicleEF	MCY	167.73	210.98
tblVehicleEF	MCY	46.45	61.55
tblVehicleEF	MCY	1.16	1.17
tblVehicleEF	MCY	1.8610e-003	1.8280e-003
tblVehicleEF	MCY	3.6730e-003	3.0520e-003
tblVehicleEF	MCY	1.7420e-003	1.7110e-003
tblVehicleEF	MCY	3.4650e-003	2.8770e-003
tblVehicleEF	MCY	1.45	1.44
tblVehicleEF	MCY	0.84	0.84
tblVehicleEF	MCY	0.80	0.80
tblVehicleEF	MCY	2.23	2.23
tblVehicleEF	MCY	0.49	2.04
tblVehicleEF	MCY	2.16	1.90
tblVehicleEF	MCY	2.0770e-003	2.0880e-003
tblVehicleEF	MCY	6.9000e-004	6.0900e-004
tblVehicleEF	MCY	1.45	1.44
tblVehicleEF	MCY	0.84	0.84
tblVehicleEF	MCY	0.80	0.80
tblVehicleEF	MCY	2.74	2.74
tblVehicleEF	MCY	0.49	2.04
tblVehicleEF	MCY	2.35	2.07
tblVehicleEF	MCY	0.42	0.32
tblVehicleEF	MCY	0.14	0.22
tblVehicleEF	MCY	20.68	20.87

tblVehicleEF	MCY	9.05	7.97
tblVehicleEF	MCY	167.73	210.98
tblVehicleEF	MCY	46.45	59.35
tblVehicleEF	MCY	0.99	0.99
tblVehicleEF	MCY	1.8610e-003	1.8280e-003
tblVehicleEF	MCY	3.6730e-003	3.0520e-003
tblVehicleEF	MCY	1.7420e-003	1.7110e-003
tblVehicleEF	MCY	3.4650e-003	2.8770e-003
tblVehicleEF	MCY	3.14	3.14
tblVehicleEF	MCY	1.27	1.28
tblVehicleEF	MCY	2.13	2.12
tblVehicleEF	MCY	2.17	2.17
tblVehicleEF	MCY	0.49	2.03
tblVehicleEF	MCY	1.86	1.63
tblVehicleEF	MCY	2.0770e-003	2.0880e-003
tblVehicleEF	MCY	6.6700e-004	5.8700e-004
tblVehicleEF	MCY	3.14	3.14
tblVehicleEF	MCY	1.27	1.28
tblVehicleEF	MCY	2.13	2.12
tblVehicleEF	MCY	2.67	2.67
tblVehicleEF	MCY	0.49	2.03
tblVehicleEF	MCY	2.02	1.77
tblVehicleEF	MCY	0.42	0.32
tblVehicleEF	MCY	0.15	0.24
tblVehicleEF	MCY	19.63	19.79
tblVehicleEF	MCY	9.55	8.43
tblVehicleEF	MCY	167.73	209.35

tblVehicleEF	MCY	46.45	60.75
tblVehicleEF	MCY	1.12	1.12
tblVehicleEF	MCY	1.8610e-003	1.8280e-003
tblVehicleEF	MCY	3.6730e-003	3.0520e-003
tblVehicleEF	MCY	1.7420e-003	1.7110e-003
tblVehicleEF	MCY	3.4650e-003	2.8770e-003
tblVehicleEF	MCY	1.71	1.70
tblVehicleEF	MCY	1.13	1.12
tblVehicleEF	MCY	0.72	0.71
tblVehicleEF	MCY	2.19	2.20
tblVehicleEF	MCY	0.56	2.32
tblVehicleEF	MCY	2.08	1.83
tblVehicleEF	MCY	2.0610e-003	2.0720e-003
tblVehicleEF	MCY	6.8200e-004	6.0100e-004
tblVehicleEF	MCY	1.71	1.70
tblVehicleEF	MCY	1.13	1.12
tblVehicleEF	MCY	0.72	0.71
tblVehicleEF	MCY	2.69	2.69
tblVehicleEF	MCY	0.56	2.32
tblVehicleEF	MCY	2.27	1.99
tblVehicleEF	MDV	0.01	5.5560e-003
tblVehicleEF	MDV	0.02	0.09
tblVehicleEF	MDV	1.35	1.14
tblVehicleEF	MDV	3.25	3.33
tblVehicleEF	MDV	483.94	412.02
tblVehicleEF	MDV	107.92	87.05
tblVehicleEF	MDV	0.17	0.12

tblVehicleEF	MDV	1.8260e-003	1.6290e-003
tblVehicleEF	MDV	2.5170e-003	2.0560e-003
tblVehicleEF	MDV	1.6830e-003	1.5030e-003
tblVehicleEF	MDV	2.3150e-003	1.8910e-003
tblVehicleEF	MDV	0.10	0.12
tblVehicleEF	MDV	0.20	0.17
tblVehicleEF	MDV	0.08	0.10
tblVehicleEF	MDV	0.03	0.02
tblVehicleEF	MDV	0.11	0.52
tblVehicleEF	MDV	0.25	0.45
tblVehicleEF	MDV	4.8500e-003	4.0740e-003
tblVehicleEF	MDV	1.1370e-003	8.6100e-004
tblVehicleEF	MDV	0.10	0.12
tblVehicleEF	MDV	0.20	0.17
tblVehicleEF	MDV	0.08	0.10
tblVehicleEF	MDV	0.05	0.03
tblVehicleEF	MDV	0.11	0.52
tblVehicleEF	MDV	0.28	0.50
tblVehicleEF	MDV	0.01	6.3580e-003
tblVehicleEF	MDV	0.02	0.08
tblVehicleEF	MDV	1.64	1.38
tblVehicleEF	MDV	2.69	2.75
tblVehicleEF	MDV	526.85	437.99
tblVehicleEF	MDV	107.92	85.88
tblVehicleEF	MDV	0.16	0.11
tblVehicleEF	MDV	1.8260e-003	1.6290e-003
tblVehicleEF	MDV	2.5170e-003	2.0560e-003

tblVehicleEF	MDV	1.6830e-003	1.5030e-003
tblVehicleEF	MDV	2.3150e-003	1.8910e-003
tblVehicleEF	MDV	0.20	0.24
tblVehicleEF	MDV	0.23	0.20
tblVehicleEF	MDV	0.17	0.21
tblVehicleEF	MDV	0.04	0.03
tblVehicleEF	MDV	0.11	0.52
tblVehicleEF	MDV	0.21	0.38
tblVehicleEF	MDV	5.2830e-003	4.3310e-003
tblVehicleEF	MDV	1.1260e-003	8.5000e-004
tblVehicleEF	MDV	0.20	0.24
tblVehicleEF	MDV	0.23	0.20
tblVehicleEF	MDV	0.17	0.21
tblVehicleEF	MDV	0.05	0.04
tblVehicleEF	MDV	0.11	0.52
tblVehicleEF	MDV	0.23	0.42
tblVehicleEF	MDV	0.01	5.4100e-003
tblVehicleEF	MDV	0.02	0.09
tblVehicleEF	MDV	1.28	1.08
tblVehicleEF	MDV	3.20	3.28
tblVehicleEF	MDV	473.93	405.86
tblVehicleEF	MDV	107.92	86.95
tblVehicleEF	MDV	0.16	0.11
tblVehicleEF	MDV	1.8260e-003	1.6290e-003
tblVehicleEF	MDV	2.5170e-003	2.0560e-003
tblVehicleEF	MDV	1.6830e-003	1.5030e-003
tblVehicleEF	MDV	2.3150e-003	1.8910e-003

tblVehicleEF	MDV	0.10	0.11
tblVehicleEF	MDV	0.22	0.19
tblVehicleEF	MDV	0.08	0.10
tblVehicleEF	MDV	0.03	0.02
tblVehicleEF	MDV	0.13	0.60
tblVehicleEF	MDV	0.25	0.45
tblVehicleEF	MDV	4.7490e-003	4.0130e-003
tblVehicleEF	MDV	1.1360e-003	8.6000e-004
tblVehicleEF	MDV	0.10	0.11
tblVehicleEF	MDV	0.22	0.19
tblVehicleEF	MDV	0.08	0.10
tblVehicleEF	MDV	0.04	0.03
tblVehicleEF	MDV	0.13	0.60
tblVehicleEF	MDV	0.27	0.49
tblVehicleEF	MH	0.04	3.7970e-003
tblVehicleEF	MH	0.03	0.00
tblVehicleEF	MH	3.07	0.36
tblVehicleEF	MH	6.43	0.00
tblVehicleEF	MH	1,045.05	951.23
tblVehicleEF	MH	59.49	0.00
tblVehicleEF	MH	1.54	4.54
tblVehicleEF	MH	0.01	0.02
tblVehicleEF	MH	0.04	0.14
tblVehicleEF	MH	1.1740e-003	0.00
tblVehicleEF	MH	3.2230e-003	4.0000e-003
tblVehicleEF	MH	0.04	0.14
tblVehicleEF	MH	1.0790e-003	0.00

tblVehicleEF	MH	1.47	0.00
tblVehicleEF	MH	0.09	0.00
tblVehicleEF	MH	0.51	0.00
tblVehicleEF	MH	0.10	0.08
tblVehicleEF	MH	0.03	0.00
tblVehicleEF	MH	0.37	0.00
tblVehicleEF	MH	0.01	8.9930e-003
tblVehicleEF	MH	7.0700e-004	0.00
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tblVehicleEF	MH	0.09	0.00
tblVehicleEF	MH	0.51	0.00
tblVehicleEF	MH	0.14	0.09
tblVehicleEF	MH	0.03	0.00
tblVehicleEF	MH	0.40	0.00
tblVehicleEF	MH	0.04	3.7970e-003
tblVehicleEF	MH	0.03	0.00
tblVehicleEF	MH	3.19	0.36
tblVehicleEF	MH	5.84	0.00
tblVehicleEF	MH	1,045.05	951.23
tblVehicleEF	MH	59.49	0.00
tblVehicleEF	MH	1.41	4.26
tblVehicleEF	MH	0.01	0.02
tblVehicleEF	MH	0.04	0.14
tblVehicleEF	MH	1.1740e-003	0.00
tblVehicleEF	MH	3.2230e-003	4.0000e-003
tblVehicleEF	MH	0.04	0.14
tblVehicleEF	MH	1.0790e-003	0.00

tblVehicleEF	MH	2.91	0.00
tblVehicleEF	MH	0.11	0.00
tblVehicleEF	MH	1.21	0.00
tblVehicleEF	MH	0.11	0.08
tblVehicleEF	MH	0.03	0.00
tblVehicleEF	MH	0.34	0.00
tblVehicleEF	MH	0.01	8.9930e-003
tblVehicleEF	MH	6.9700e-004	0.00
tblVehicleEF	MH	2.91	0.00
tblVehicleEF	MH	0.11	0.00
tblVehicleEF	MH	1.21	0.00
tblVehicleEF	MH	0.15	0.09
tblVehicleEF	MH	0.03	0.00
tblVehicleEF	MH	0.38	0.00
tblVehicleEF	MH	0.04	3.7970e-003
tblVehicleEF	MH	0.03	0.00
tblVehicleEF	MH	3.08	0.36
tblVehicleEF	MH	6.36	0.00
tblVehicleEF	MH	1,045.05	951.23
tblVehicleEF	MH	59.49	0.00
tblVehicleEF	MH	1.51	4.46
tblVehicleEF	MH	0.01	0.02
tblVehicleEF	MH	0.04	0.14
tblVehicleEF	MH	1.1740e-003	0.00
tblVehicleEF	MH	3.2230e-003	4.0000e-003
tblVehicleEF	MH	0.04	0.14
tblVehicleEF	MH	1.0790e-003	0.00

tblVehicleEF	MH	1.75	0.00
tblVehicleEF	MH	0.11	0.00
tblVehicleEF	MH	0.53	0.00
tblVehicleEF	MH	0.10	0.08
tblVehicleEF	MH	0.03	0.00
tblVehicleEF	MH	0.37	0.00
tblVehicleEF	MH	0.01	8.9930e-003
tblVehicleEF	MH	7.0600e-004	0.00
tblVehicleEF	MH	1.75	0.00
tblVehicleEF	MH	0.11	0.00
tblVehicleEF	MH	0.53	0.00
tblVehicleEF	MH	0.15	0.09
tblVehicleEF	MH	0.03	0.00
tblVehicleEF	MH	0.40	0.00
tblVehicleEF	MHD	0.02	3.1740e-003
tblVehicleEF	MHD	3.5160e-003	3.4880e-003
tblVehicleEF	MHD	0.05	8.5120e-003
tblVehicleEF	MHD	0.32	0.34
tblVehicleEF	MHD	0.27	0.35
tblVehicleEF	MHD	5.32	0.97
tblVehicleEF	MHD	156.91	69.07
tblVehicleEF	MHD	1,101.52	999.60
tblVehicleEF	MHD	52.43	8.24
tblVehicleEF	MHD	0.60	0.51
tblVehicleEF	MHD	0.99	1.54
tblVehicleEF	MHD	3.8600e-004	1.1810e-003
tblVehicleEF	MHD	5.0030e-003	0.03

tblVehicleEF	MHD	7.6400e-004	1.0000e-004
tblVehicleEF	MHD	3.6900e-004	1.1300e-003
tblVehicleEF	MHD	4.7830e-003	0.03
tblVehicleEF	MHD	7.0300e-004	9.2000e-005
tblVehicleEF	MHD	1.2800e-003	5.9300e-004
tblVehicleEF	MHD	0.04	0.02
tblVehicleEF	MHD	0.02	0.02
tblVehicleEF	MHD	6.5100e-004	3.0000e-004
tblVehicleEF	MHD	0.04	0.05
tblVehicleEF	MHD	0.02	0.11
tblVehicleEF	MHD	0.32	0.04
tblVehicleEF	MHD	1.5080e-003	6.5500e-004
tblVehicleEF	MHD	0.01	9.5250e-003
tblVehicleEF	MHD	6.1700e-004	8.2000e-005
tblVehicleEF	MHD	1.2800e-003	5.9300e-004
tblVehicleEF	MHD	0.04	0.02
tblVehicleEF	MHD	0.03	0.02
tblVehicleEF	MHD	6.5100e-004	3.0000e-004
tblVehicleEF	MHD	0.04	0.06
tblVehicleEF	MHD	0.02	0.11
tblVehicleEF	MHD	0.35	0.05
tblVehicleEF	MHD	0.02	3.0170e-003
tblVehicleEF	MHD	3.5800e-003	3.5290e-003
tblVehicleEF	MHD	0.05	8.1180e-003
tblVehicleEF	MHD	0.24	0.28
tblVehicleEF	MHD	0.28	0.36
tblVehicleEF	MHD	4.97	0.91

tblVehicleEF	MHD	166.20	69.79
tblVehicleEF	MHD	1,101.52	999.60
tblVehicleEF	MHD	52.43	8.13
tblVehicleEF	MHD	0.62	0.51
tblVehicleEF	MHD	0.92	1.44
tblVehicleEF	MHD	3.2500e-004	9.9900e-004
tblVehicleEF	MHD	5.0030e-003	0.03
tblVehicleEF	MHD	7.6400e-004	1.0000e-004
tblVehicleEF	MHD	3.1100e-004	9.5500e-004
tblVehicleEF	MHD	4.7830e-003	0.03
tblVehicleEF	MHD	7.0300e-004	9.2000e-005
tblVehicleEF	MHD	2.5300e-003	1.1740e-003
tblVehicleEF	MHD	0.05	0.02
tblVehicleEF	MHD	0.02	0.02
tblVehicleEF	MHD	1.5010e-003	6.9400e-004
tblVehicleEF	MHD	0.04	0.05
tblVehicleEF	MHD	0.02	0.11
tblVehicleEF	MHD	0.30	0.04
tblVehicleEF	MHD	1.5950e-003	6.6200e-004
tblVehicleEF	MHD	0.01	9.5250e-003
tblVehicleEF	MHD	6.1100e-004	8.1000e-005
tblVehicleEF	MHD	2.5300e-003	1.1740e-003
tblVehicleEF	MHD	0.05	0.02
tblVehicleEF	MHD	0.03	0.02
tblVehicleEF	MHD	1.5010e-003	6.9400e-004
tblVehicleEF	MHD	0.04	0.06
tblVehicleEF	MHD	0.02	0.11

tblVehicleEF	MHD	0.33	0.05
tblVehicleEF	MHD	0.02	3.4070e-003
tblVehicleEF	MHD	3.5220e-003	3.4910e-003
tblVehicleEF	MHD	0.05	8.4150e-003
tblVehicleEF	MHD	0.45	0.41
tblVehicleEF	MHD	0.27	0.35
tblVehicleEF	MHD	5.23	0.96
tblVehicleEF	MHD	144.06	68.08
tblVehicleEF	MHD	1,101.52	999.60
tblVehicleEF	MHD	52.43	8.22
tblVehicleEF	MHD	0.57	0.51
tblVehicleEF	MHD	0.97	1.51
tblVehicleEF	MHD	4.7000e-004	1.4340e-003
tblVehicleEF	MHD	5.0030e-003	0.03
tblVehicleEF	MHD	7.6400e-004	1.0000e-004
tblVehicleEF	MHD	4.4900e-004	1.3720e-003
tblVehicleEF	MHD	4.7830e-003	0.03
tblVehicleEF	MHD	7.0300e-004	9.2000e-005
tblVehicleEF	MHD	1.3890e-003	6.4600e-004
tblVehicleEF	MHD	0.05	0.02
tblVehicleEF	MHD	0.03	0.02
tblVehicleEF	MHD	6.4000e-004	2.9500e-004
tblVehicleEF	MHD	0.04	0.05
tblVehicleEF	MHD	0.02	0.12
tblVehicleEF	MHD	0.32	0.04
tblVehicleEF	MHD	1.3860e-003	6.4600e-004
tblVehicleEF	MHD	0.01	9.5250e-003

tblVehicleEF	MHD	6.1600e-004	8.1000e-005
tblVehicleEF	MHD	1.3890e-003	6.4600e-004
tblVehicleEF	MHD	0.05	0.02
tblVehicleEF	MHD	0.04	0.02
tblVehicleEF	MHD	6.4000e-004	2.9500e-004
tblVehicleEF	MHD	0.04	0.06
tblVehicleEF	MHD	0.02	0.12
tblVehicleEF	MHD	0.35	0.05
tblVehicleEF	OBUS	0.01	9.1480e-003
tblVehicleEF	OBUS	9.9110e-003	8.5440e-003
tblVehicleEF	OBUS	0.03	0.03
tblVehicleEF	OBUS	0.26	0.48
tblVehicleEF	OBUS	0.63	0.98
tblVehicleEF	OBUS	6.27	2.73
tblVehicleEF	OBUS	70.35	66.56
tblVehicleEF	OBUS	1,121.50	1,475.42
tblVehicleEF	OBUS	70.70	21.88
tblVehicleEF	OBUS	0.28	0.29
tblVehicleEF	OBUS	0.97	1.13
tblVehicleEF	OBUS	6.4000e-005	5.0000e-004
tblVehicleEF	OBUS	4.6440e-003	0.01
tblVehicleEF	OBUS	9.2900e-004	2.3000e-004
tblVehicleEF	OBUS	6.1000e-005	4.7800e-004
tblVehicleEF	OBUS	4.4220e-003	0.01
tblVehicleEF	OBUS	8.5400e-004	2.1200e-004
tblVehicleEF	OBUS	2.1800e-003	2.7870e-003
tblVehicleEF	OBUS	0.02	0.03

tblVehicleEF	OBUS	0.04	0.05
tblVehicleEF	OBUS	9.3100e-004	1.1430e-003
tblVehicleEF	OBUS	0.04	0.06
tblVehicleEF	OBUS	0.05	0.31
tblVehicleEF	OBUS	0.38	0.13
tblVehicleEF	OBUS	6.8400e-004	6.3600e-004
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	8.1700e-004	2.1700e-004
tblVehicleEF	OBUS	2.1800e-003	2.7870e-003
tblVehicleEF	OBUS	0.02	0.03
tblVehicleEF	OBUS	0.05	0.07
tblVehicleEF	OBUS	9.3100e-004	1.1430e-003
tblVehicleEF	OBUS	0.06	0.07
tblVehicleEF	OBUS	0.05	0.31
tblVehicleEF	OBUS	0.42	0.14
tblVehicleEF	OBUS	0.01	9.2020e-003
tblVehicleEF	OBUS	0.01	8.7760e-003
tblVehicleEF	OBUS	0.03	0.02
tblVehicleEF	OBUS	0.26	0.47
tblVehicleEF	OBUS	0.65	1.01
tblVehicleEF	OBUS	5.74	2.51
tblVehicleEF	OBUS	73.50	66.43
tblVehicleEF	OBUS	1,121.50	1,475.46
tblVehicleEF	OBUS	70.70	21.50
tblVehicleEF	OBUS	0.29	0.28
tblVehicleEF	OBUS	0.90	1.04
tblVehicleEF	OBUS	5.4000e-005	4.2500e-004

tblVehicleEF	OBUS	4.6440e-003	0.01
tblVehicleEF	OBUS	9.2900e-004	2.3000e-004
tblVehicleEF	OBUS	5.1000e-005	4.0700e-004
tblVehicleEF	OBUS	4.4220e-003	0.01
tblVehicleEF	OBUS	8.5400e-004	2.1200e-004
tblVehicleEF	OBUS	4.2350e-003	5.4310e-003
tblVehicleEF	OBUS	0.02	0.03
tblVehicleEF	OBUS	0.03	0.05
tblVehicleEF	OBUS	2.1330e-003	2.6360e-003
tblVehicleEF	OBUS	0.05	0.06
tblVehicleEF	OBUS	0.05	0.31
tblVehicleEF	OBUS	0.36	0.12
tblVehicleEF	OBUS	7.1400e-004	6.3500e-004
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	8.0800e-004	2.1300e-004
tblVehicleEF	OBUS	4.2350e-003	5.4310e-003
tblVehicleEF	OBUS	0.02	0.03
tblVehicleEF	OBUS	0.05	0.07
tblVehicleEF	OBUS	2.1330e-003	2.6360e-003
tblVehicleEF	OBUS	0.06	0.08
tblVehicleEF	OBUS	0.05	0.31
tblVehicleEF	OBUS	0.40	0.14
tblVehicleEF	OBUS	0.01	9.1130e-003
tblVehicleEF	OBUS	9.9380e-003	8.5700e-003
tblVehicleEF	OBUS	0.03	0.03
tblVehicleEF	OBUS	0.28	0.49
tblVehicleEF	OBUS	0.63	0.99

tblVehicleEF	OBUS	6.22	2.71
tblVehicleEF	OBUS	66.00	66.75
tblVehicleEF	OBUS	1,121.50	1,475.42
tblVehicleEF	OBUS	70.70	21.85
tblVehicleEF	OBUS	0.27	0.30
tblVehicleEF	OBUS	0.96	1.11
tblVehicleEF	OBUS	7.7000e-005	6.0400e-004
tblVehicleEF	OBUS	4.6440e-003	0.01
tblVehicleEF	OBUS	9.2900e-004	2.3000e-004
tblVehicleEF	OBUS	7.4000e-005	5.7800e-004
tblVehicleEF	OBUS	4.4220e-003	0.01
tblVehicleEF	OBUS	8.5400e-004	2.1200e-004
tblVehicleEF	OBUS	2.3200e-003	3.0070e-003
tblVehicleEF	OBUS	0.02	0.03
tblVehicleEF	OBUS	0.04	0.05
tblVehicleEF	OBUS	9.4100e-004	1.1540e-003
tblVehicleEF	OBUS	0.04	0.06
tblVehicleEF	OBUS	0.05	0.33
tblVehicleEF	OBUS	0.38	0.13
tblVehicleEF	OBUS	6.4200e-004	6.3800e-004
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	8.1600e-004	2.1600e-004
tblVehicleEF	OBUS	2.3200e-003	3.0070e-003
tblVehicleEF	OBUS	0.02	0.03
tblVehicleEF	OBUS	0.05	0.06
tblVehicleEF	OBUS	9.4100e-004	1.1540e-003
tblVehicleEF	OBUS	0.06	0.08

tblVehicleEF	OBUS	0.05	0.33
tblVehicleEF	OBUS	0.42	0.14
tblVehicleEF	SBUS	0.84	0.04
tblVehicleEF	SBUS	0.01	6.8550e-003
tblVehicleEF	SBUS	0.07	4.0770e-003
tblVehicleEF	SBUS	5.71	1.90
tblVehicleEF	SBUS	0.65	0.58
tblVehicleEF	SBUS	5.33	0.55
tblVehicleEF	SBUS	1,258.13	336.22
tblVehicleEF	SBUS	1,136.31	1,128.72
tblVehicleEF	SBUS	37.11	3.21
tblVehicleEF	SBUS	11.70	3.35
tblVehicleEF	SBUS	4.77	5.07
tblVehicleEF	SBUS	0.01	4.0350e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.03	0.03
tblVehicleEF	SBUS	5.1700e-004	3.0000e-005
tblVehicleEF	SBUS	0.01	3.8600e-003
tblVehicleEF	SBUS	2.7560e-003	2.7660e-003
tblVehicleEF	SBUS	0.03	0.03
tblVehicleEF	SBUS	4.7500e-004	2.8000e-005
tblVehicleEF	SBUS	2.9260e-003	7.3800e-004
tblVehicleEF	SBUS	0.02	5.5390e-003
tblVehicleEF	SBUS	0.68	0.20
tblVehicleEF	SBUS	1.3050e-003	3.4800e-004
tblVehicleEF	SBUS	0.11	0.10
tblVehicleEF	SBUS	9.3510e-003	0.04

tblVehicleEF	SBUS	0.27	0.02
tblVehicleEF	SBUS	0.01	3.1960e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	4.6300e-004	3.2000e-005
tblVehicleEF	SBUS	2.9260e-003	7.3800e-004
tblVehicleEF	SBUS	0.02	5.5390e-003
tblVehicleEF	SBUS	0.97	0.28
tblVehicleEF	SBUS	1.3050e-003	3.4800e-004
tblVehicleEF	SBUS	0.13	0.11
tblVehicleEF	SBUS	9.3510e-003	0.04
tblVehicleEF	SBUS	0.30	0.03
tblVehicleEF	SBUS	0.84	0.04
tblVehicleEF	SBUS	0.01	6.9390e-003
tblVehicleEF	SBUS	0.06	3.3780e-003
tblVehicleEF	SBUS	5.56	1.86
tblVehicleEF	SBUS	0.66	0.59
tblVehicleEF	SBUS	3.65	0.39
tblVehicleEF	SBUS	1,322.00	344.13
tblVehicleEF	SBUS	1,136.31	1,128.74
tblVehicleEF	SBUS	37.11	2.94
tblVehicleEF	SBUS	12.08	3.42
tblVehicleEF	SBUS	4.47	4.75
tblVehicleEF	SBUS	0.01	3.4090e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.03	0.03
tblVehicleEF	SBUS	5.1700e-004	3.0000e-005
tblVehicleEF	SBUS	9.6490e-003	3.2620e-003

tblVehicleEF	SBUS	2.7560e-003	2.7660e-003
tblVehicleEF	SBUS	0.03	0.03
tblVehicleEF	SBUS	4.7500e-004	2.8000e-005
tblVehicleEF	SBUS	5.6170e-003	1.3280e-003
tblVehicleEF	SBUS	0.02	5.8520e-003
tblVehicleEF	SBUS	0.67	0.20
tblVehicleEF	SBUS	2.8800e-003	6.7400e-004
tblVehicleEF	SBUS	0.11	0.10
tblVehicleEF	SBUS	8.5310e-003	0.03
tblVehicleEF	SBUS	0.22	0.02
tblVehicleEF	SBUS	0.01	3.2700e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	4.3500e-004	2.9000e-005
tblVehicleEF	SBUS	5.6170e-003	1.3280e-003
tblVehicleEF	SBUS	0.02	5.8520e-003
tblVehicleEF	SBUS	0.97	0.28
tblVehicleEF	SBUS	2.8800e-003	6.7400e-004
tblVehicleEF	SBUS	0.13	0.12
tblVehicleEF	SBUS	8.5310e-003	0.03
tblVehicleEF	SBUS	0.24	0.02
tblVehicleEF	SBUS	0.84	0.04
tblVehicleEF	SBUS	0.01	6.8510e-003
tblVehicleEF	SBUS	0.07	4.1760e-003
tblVehicleEF	SBUS	5.91	1.95
tblVehicleEF	SBUS	0.65	0.58
tblVehicleEF	SBUS	5.37	0.57
tblVehicleEF	SBUS	1,169.92	325.30

tblVehicleEF	SBUS	1,136.31	1,128.72
tblVehicleEF	SBUS	37.11	3.24
tblVehicleEF	SBUS	11.19	3.26
tblVehicleEF	SBUS	4.69	4.99
tblVehicleEF	SBUS	0.01	4.8980e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.03	0.03
tblVehicleEF	SBUS	5.1700e-004	3.0000e-005
tblVehicleEF	SBUS	0.01	4.6860e-003
tblVehicleEF	SBUS	2.7560e-003	2.7660e-003
tblVehicleEF	SBUS	0.03	0.03
tblVehicleEF	SBUS	4.7500e-004	2.8000e-005
tblVehicleEF	SBUS	2.9580e-003	7.2600e-004
tblVehicleEF	SBUS	0.02	5.8800e-003
tblVehicleEF	SBUS	0.68	0.20
tblVehicleEF	SBUS	1.2820e-003	3.5300e-004
tblVehicleEF	SBUS	0.11	0.10
tblVehicleEF	SBUS	0.01	0.05
tblVehicleEF	SBUS	0.28	0.02
tblVehicleEF	SBUS	0.01	3.0930e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	4.6400e-004	3.2000e-005
tblVehicleEF	SBUS	2.9580e-003	7.2600e-004
tblVehicleEF	SBUS	0.02	5.8800e-003
tblVehicleEF	SBUS	0.98	0.28
tblVehicleEF	SBUS	1.2820e-003	3.5300e-004
tblVehicleEF	SBUS	0.13	0.11

tblVehicleEF	SBUS	0.01	0.05
tblVehicleEF	SBUS	0.31	0.03
tblVehicleEF	UBUS	1.83	4.19
tblVehicleEF	UBUS	0.08	0.02
tblVehicleEF	UBUS	9.26	32.67
tblVehicleEF	UBUS	14.34	1.43
tblVehicleEF	UBUS	1,846.39	1,724.94
tblVehicleEF	UBUS	136.37	16.90
tblVehicleEF	UBUS	5.87	0.37
tblVehicleEF	UBUS	0.52	0.08
tblVehicleEF	UBUS	0.01	0.03
tblVehicleEF	UBUS	0.07	2.6830e-003
tblVehicleEF	UBUS	1.4030e-003	1.8900e-004
tblVehicleEF	UBUS	0.22	0.03
tblVehicleEF	UBUS	3.0000e-003	6.3130e-003
tblVehicleEF	UBUS	0.06	2.5510e-003
tblVehicleEF	UBUS	1.2900e-003	1.7400e-004
tblVehicleEF	UBUS	8.0860e-003	1.5320e-003
tblVehicleEF	UBUS	0.11	8.4710e-003
tblVehicleEF	UBUS	3.9450e-003	6.5200e-004
tblVehicleEF	UBUS	0.61	0.06
tblVehicleEF	UBUS	0.02	0.04
tblVehicleEF	UBUS	1.15	0.06
tblVehicleEF	UBUS	0.01	3.8820e-003
tblVehicleEF	UBUS	1.6240e-003	1.6700e-004
tblVehicleEF	UBUS	8.0860e-003	1.5320e-003
tblVehicleEF	UBUS	0.11	8.4710e-003

tblVehicleEF	UBUS	3.9450e-003	6.5200e-004
tblVehicleEF	UBUS	2.50	4.28
tblVehicleEF	UBUS	0.02	0.04
tblVehicleEF	UBUS	1.25	0.07
tblVehicleEF	UBUS	1.83	4.19
tblVehicleEF	UBUS	0.08	0.01
tblVehicleEF	UBUS	9.36	32.67
tblVehicleEF	UBUS	11.74	1.17
tblVehicleEF	UBUS	1,846.39	1,724.94
tblVehicleEF	UBUS	136.37	16.47
tblVehicleEF	UBUS	5.45	0.37
tblVehicleEF	UBUS	0.52	0.08
tblVehicleEF	UBUS	0.01	0.03
tblVehicleEF	UBUS	0.07	2.6830e-003
tblVehicleEF	UBUS	1.4030e-003	1.8900e-004
tblVehicleEF	UBUS	0.22	0.03
tblVehicleEF	UBUS	3.0000e-003	6.3130e-003
tblVehicleEF	UBUS	0.06	2.5510e-003
tblVehicleEF	UBUS	1.2900e-003	1.7400e-004
tblVehicleEF	UBUS	0.02	2.9020e-003
tblVehicleEF	UBUS	0.14	0.01
tblVehicleEF	UBUS	9.3320e-003	1.4770e-003
tblVehicleEF	UBUS	0.62	0.06
tblVehicleEF	UBUS	0.02	0.04
tblVehicleEF	UBUS	1.02	0.06
tblVehicleEF	UBUS	0.01	3.8820e-003
tblVehicleEF	UBUS	1.5790e-003	1.6300e-004

tblVehicleEF	UBUS	0.02	2.9020e-003
tblVehicleEF	UBUS	0.14	0.01
tblVehicleEF	UBUS	9.3320e-003	1.4770e-003
tblVehicleEF	UBUS	2.52	4.28
tblVehicleEF	UBUS	0.02	0.04
tblVehicleEF	UBUS	1.12	0.06
tblVehicleEF	UBUS	1.83	4.19
tblVehicleEF	UBUS	0.08	0.02
tblVehicleEF	UBUS	9.27	32.67
tblVehicleEF	UBUS	13.86	1.39
tblVehicleEF	UBUS	1,846.39	1,724.94
tblVehicleEF	UBUS	136.37	16.85
tblVehicleEF	UBUS	5.76	0.37
tblVehicleEF	UBUS	0.52	0.08
tblVehicleEF	UBUS	0.01	0.03
tblVehicleEF	UBUS	0.07	2.6830e-003
tblVehicleEF	UBUS	1.4030e-003	1.8900e-004
tblVehicleEF	UBUS	0.22	0.03
tblVehicleEF	UBUS	3.0000e-003	6.3130e-003
tblVehicleEF	UBUS	0.06	2.5510e-003
tblVehicleEF	UBUS	1.2900e-003	1.7400e-004
tblVehicleEF	UBUS	9.2250e-003	1.6220e-003
tblVehicleEF	UBUS	0.14	9.7130e-003
tblVehicleEF	UBUS	4.1190e-003	6.4800e-004
tblVehicleEF	UBUS	0.61	0.06
tblVehicleEF	UBUS	0.03	0.04
tblVehicleEF	UBUS	1.13	0.06

tblVehicleEF	UBUS	0.01	3.8820e-003
tblVehicleEF	UBUS	1.6160e-003	1.6700e-004
tblVehicleEF	UBUS	9.2250e-003	1.6220e-003
tblVehicleEF	UBUS	0.14	9.7130e-003
tblVehicleEF	UBUS	4.1190e-003	6.4800e-004
tblVehicleEF	UBUS	2.50	4.28
tblVehicleEF	UBUS	0.03	0.04
tblVehicleEF	UBUS	1.24	0.07
tblVehicleTrips	CNW_TTP	41.00	0.00
tblVehicleTrips	CW_TL	16.60	36.00
tblVehicleTrips	CW_TTP	59.00	100.00
tblVehicleTrips	DV_TP	5.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PR_TP	92.00	100.00
tblVehicleTrips	ST_TR	1.68	0.30
tblVehicleTrips	SU_TR	1.68	0.28
tblVehicleTrips	WD_TR	1.68	0.45

2.0 Emissions Summary

2.1 Overall Construction

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2021	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Maximum	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2021	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Maximum	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
		Highest		

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	3.1335	2.0000e-004	0.0218	0.0000		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005	0.0000	0.0424	0.0424	1.1000e-004	0.0000	0.0452
Energy	5.8200e-003	0.0529	0.0444	3.2000e-004		4.0200e-003	4.0200e-003		4.0200e-003	4.0200e-003	0.0000	532.2943	532.2943	0.0207	5.1100e-003	534.3348
Mobile	0.3176	12.7098	2.7833	0.0494	1.7659	0.1297	1.8957	0.4974	0.1241	0.6215	0.0000	4,827.9143	4,827.9143	0.1618	0.0000	4,831.9581
Offroad	0.0668	0.6940	0.4153	1.7400e-003		0.0240	0.0240		0.0220	0.0220	0.0000	152.3765	152.3765	0.0493	0.0000	153.6085
Waste						0.0000	0.0000		0.0000	0.0000	143.9510	0.0000	143.9510	8.5073	0.0000	356.6326
Water						0.0000	0.0000		0.0000	0.0000	55.3473	723.7832	779.1305	5.7146	0.1404	963.8371
Total	**3.5238**	**13.4569**	**3.2649**	**0.0515**	**1.7659**	**0.1578**	**1.9237**	**0.4974**	**0.1502**	**0.6477**	**199.2983**	**6,236.4107**	**6,435.7090**	**14.4537**	**0.1455**	**6,840.4162**

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	3.1335	2.0000e-004	0.0218	0.0000		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005	0.0000	0.0424	0.0424	1.1000e-004	0.0000	0.0452
Energy	5.8200e-003	0.0529	0.0444	3.2000e-004		4.0200e-003	4.0200e-003		4.0200e-003	4.0200e-003	0.0000	532.2943	532.2943	0.0207	5.1100e-003	534.3348
Mobile	0.3176	12.7098	2.7833	0.0494	1.7659	0.1297	1.8957	0.4974	0.1241	0.6215	0.0000	4,827.9143	4,827.9143	0.1618	0.0000	4,831.9581
Offroad	0.0668	0.6940	0.4153	1.7400e-003		0.0240	0.0240		0.0220	0.0220	0.0000	152.3765	152.3765	0.0493	0.0000	153.6085
Waste						0.0000	0.0000		0.0000	0.0000	143.9510	0.0000	143.9510	8.5073	0.0000	356.6326
Water						0.0000	0.0000		0.0000	0.0000	55.3473	723.7832	779.1305	5.7146	0.1404	963.8371
Total	**3.5238**	**13.4569**	**3.2649**	**0.0515**	**1.7659**	**0.1578**	**1.9237**	**0.4974**	**0.1502**	**0.6477**	**199.2983**	**6,236.4107**	**6,435.7090**	**14.4537**	**0.1455**	**6,840.4162**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	6/1/2021	5/31/2021	5	0	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 16.3

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	0	8.00	81	0.73
Demolition	Excavators	0	8.00	158	0.38
Demolition	Rubber Tired Dozers	0	8.00	247	0.40

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	0	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Demolition - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

3.2 Demolition - 2021

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.3176	12.7098	2.7833	0.0494	1.7659	0.1297	1.8957	0.4974	0.1241	0.6215	0.0000	4,827.9143	4,827.9143	0.1618	0.0000	4,831.9581
Unmitigated	0.3176	12.7098	2.7833	0.0494	1.7659	0.1297	1.8957	0.4974	0.1241	0.6215	0.0000	4,827.9143	4,827.9143	0.1618	0.0000	4,831.9581

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Other Asphalt Surfaces	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Unrefrigerated Warehouse-No Rail	341.97	229.26	212.14	4,027,177	4,027,177
Total	341.97	229.26	212.14	4,027,177	4,027,177

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Other Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Other Non-Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Parking Lot	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Unrefrigerated Warehouse-No	36.00	8.40	6.90	100.00	0.00	0.00	100	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Other Asphalt Surfaces	0.553113	0.036408	0.180286	0.116335	0.016165	0.005101	0.018218	0.063797	0.001357	0.001565	0.005903	0.000808	0.000944
Other Non-Asphalt Surfaces	0.553113	0.036408	0.180286	0.116335	0.016165	0.005101	0.018218	0.063797	0.001357	0.001565	0.005903	0.000808	0.000944
Parking Lot	0.553113	0.036408	0.180286	0.116335	0.016165	0.005101	0.018218	0.063797	0.001357	0.001565	0.005903	0.000808	0.000944
Unrefrigerated Warehouse-No Rail	0.000000	0.000000	0.000000	0.000000	0.167200	0.000000	0.207200	0.625600	0.000000	0.000000	0.000000	0.000000	0.000000

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	474.7253	474.7253	0.0196	4.0500e-003	476.4236
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	474.7253	474.7253	0.0196	4.0500e-003	476.4236
NaturalGas Mitigated	5.8200e-003	0.0529	0.0444	3.2000e-004		4.0200e-003	4.0200e-003		4.0200e-003	4.0200e-003	0.0000	57.5691	57.5691	1.1000e-003	1.0600e-003	57.9112
NaturalGas Unmitigated	5.8200e-003	0.0529	0.0444	3.2000e-004		4.0200e-003	4.0200e-003		4.0200e-003	4.0200e-003	0.0000	57.5691	57.5691	1.1000e-003	1.0600e-003	57.9112

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	1.0788e+006	5.8200e-003	0.0529	0.0444	3.2000e-004		4.0200e-003	4.0200e-003		4.0200e-003	4.0200e-003	0.0000	57.5691	57.5691	1.1000e-003	1.0600e-003	57.9112
Total		**5.8200e-003**	**0.0529**	**0.0444**	**3.2000e-004**		**4.0200e-003**	**4.0200e-003**		**4.0200e-003**	**4.0200e-003**	**0.0000**	**57.5691**	**57.5691**	**1.1000e-003**	**1.0600e-003**	**57.9112**

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	1.0788e+006	5.8200e-003	0.0529	0.0444	3.2000e-004		4.0200e-003	4.0200e-003		4.0200e-003	4.0200e-003	0.0000	57.5691	57.5691	1.1000e-003	1.0600e-003	57.9112
Total		**5.8200e-003**	**0.0529**	**0.0444**	**3.2000e-004**		**4.0200e-003**	**4.0200e-003**		**4.0200e-003**	**4.0200e-003**	**0.0000**	**57.5691**	**57.5691**	**1.1000e-003**	**1.0600e-003**	**57.9112**

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	56560	18.0212	7.4000e-004	1.5000e-004	18.0857
Unrefrigerated Warehouse-No Rail	1.43338e+006	456.7041	0.0189	3.9000e-003	458.3379
Total		**474.7253**	**0.0196**	**4.0500e-003**	**476.4236**

5.3 Energy by Land Use - Electricity

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	56560	18.0212	7.4000e-004	1.5000e-004	18.0857
Unrefrigerated Warehouse-No Rail	1.43338e+006	456.7041	0.0189	3.9000e-003	458.3379
Total		**474.7253**	**0.0196**	**4.0500e-003**	**476.4236**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	3.1335	2.0000e-004	0.0218	0.0000		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005	0.0000	0.0424	0.0424	1.1000e-004	0.0000	0.0452
Unmitigated	3.1335	2.0000e-004	0.0218	0.0000		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005	0.0000	0.0424	0.0424	1.1000e-004	0.0000	0.0452

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.3595					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	2.7720					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	2.0300e-003	2.0000e-004	0.0218	0.0000		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005	0.0000	0.0424	0.0424	1.1000e-004	0.0000	0.0452
Total	**3.1335**	**2.0000e-004**	**0.0218**	**0.0000**		**8.0000e-005**	**8.0000e-005**		**8.0000e-005**	**8.0000e-005**	**0.0000**	**0.0424**	**0.0424**	**1.1000e-004**	**0.0000**	**0.0452**

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.3595					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	2.7720					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	2.0300e-003	2.0000e-004	0.0218	0.0000		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005	0.0000	0.0424	0.0424	1.1000e-004	0.0000	0.0452
Total	**3.1335**	**2.0000e-004**	**0.0218**	**0.0000**		**8.0000e-005**	**8.0000e-005**		**8.0000e-005**	**8.0000e-005**	**0.0000**	**0.0424**	**0.0424**	**1.1000e-004**	**0.0000**	**0.0452**

7.0 Water Detail

7.1 Mitigation Measures Water

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	779.1305	5.7146	0.1404	963.8371
Unmitigated	779.1305	5.7146	0.1404	963.8371

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	174.457 / 0	779.1305	5.7146	0.1404	963.8371
Total		**779.1305**	**5.7146**	**0.1404**	**963.8371**

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	174.457 / 0	779.1305	5.7146	0.1404	963.8371
Total		**779.1305**	**5.7146**	**0.1404**	**963.8371**

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	143.9510	8.5073	0.0000	356.6326
Unmitigated	143.9510	8.5073	0.0000	356.6326

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	709.15	143.9510	8.5073	0.0000	356.6326
Total		**143.9510**	**8.5073**	**0.0000**	**356.6326**

8.2 Waste by Land Use

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	709.15	143.9510	8.5073	0.0000	356.6326
Total		**143.9510**	**8.5073**	**0.0000**	**356.6326**

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
Tractors/Loaders/Backhoes	3	4.00	365	200	0.37	CNG

UnMitigated/Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Equipment Type	tons/yr										MT/yr					
Tractors/Loaders/Backhoes	0.0668	0.6940	0.4153	1.7400e-003		0.0240	0.0240		0.0220	0.0220	0.0000	152.3765	152.3765	0.0493	0.0000	153.6085
Total	**0.0668**	**0.6940**	**0.4153**	**1.7400e-003**		**0.0240**	**0.0240**		**0.0220**	**0.0220**	**0.0000**	**152.3765**	**152.3765**	**0.0493**	**0.0000**	**153.6085**

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

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Greenhouse Gas Analysis

Fontana Foothill Commerce Center

MOBILE SOURCE HEALTH RISK ASSESSMENT

CITY OF FONTANA

PREPARED BY:

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MAY 4, 2020

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LIST OF ABBREVIATED TERMS

(1)	Reference
µg	Microgram
AERMOD	American Meteorological Society/Environmental Protection Agency Regulatory Model
APS	Auxiliary Power System
AQMD	Air Quality Management District
ARB	Air Resources Board
CEQA	California Environmental Quality Act
CPF	Cancer Potency Factor
DPM	Diesel Particulate Matter
EMFAC	Emission Factor Model
EPA	Environmental Protection Agency
HHD	Heavy Heavy-Duty
HI	Hazard Index
HRA	Health Risk Assessment
LHD	Light Heavy-Duty
MATES	Multiple Air Toxics Exposure Study
MEIR	Maximally Exposed Individual Receptor
MEISC	Maximally Exposed Individual School Child
MEIW	Maximally Exposed Individual Worker
MHD	Medium Heavy-Duty
NAD	North American Datum
OEHHA	Office of Environmental Health Hazard
PCE	Passenger Car Equivalent
PM10	Particulate Matter 10 microns in diameter or less
Project	Fontana Foothill Commerce Center
REL	Reference Exposure Level
RM	Recommended Measures
SCAQMD	South Coast Air Quality Management District
SRA	Source Receptor Area
TAC	Toxic Air Contaminant
TIA	Traffic Impact Analysis
URF	Unit Risk Factor
UTM	Universal Transverse Mercator
VMT	Vehicle Miles Traveled

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EXECUTIVE SUMMARY

This report evaluates the potential mobile source health risk impacts to sensitive receptors (residents) and adjacent workers associated with the development of the proposed Project, more specifically, health risk impacts as a result of exposure to diesel particulate matter (DPM) as a result of heavy-duty diesel trucks accessing the site. This section summarizes the significance criteria and Project mobile source health risks.

The results of the health risk assessment of lifetime cancer risk from Project-generated DPM emissions are provided on Table ES-1.

Residential Exposure Scenario:

The residential land use with the greatest potential exposure to Project DPM source emissions is located at an existing residential home immediately adjacent to the east of Building 2. At the maximally exposed individual receptor (MEIR), the maximum incremental cancer risk attributable to Project DPM source emissions is estimated at 5.86 in one million, which is less than the threshold of 10 in one million. At this same location, non-cancer risks were estimated to be 0.002, which would not exceed the applicable threshold of 1.0. As such, the Project will not cause a significant human health or cancer risk to adjacent residences. All other residential locations in the vicinity of the Project would be exposed to less emissions and therefore less risk than the MEIR identified herein.

Worker Exposure Scenario:

The worker receptor land use with the greatest potential exposure to Project DPM source emissions is located immediately adjacent to the west of Building 1 at the proposed Goodman Logistics Center Fontana III Project. At the maximally exposed individual worker (MEIW), the maximum incremental cancer risk impact at this location is 0.25 in one million[1] which is less than the threshold of 10 in one million. Maximum non-cancer risks at this same location were estimated to be 0.001, which would not exceed the applicable threshold of 1.0. As such, the Project will not cause a significant human health or cancer risk to adjacent workers. All other modeled worker locations in the vicinity of the Project would be exposed to less emissions and therefore less risk than the MEIW identified herein.

School Child Exposure Scenario:

The school site land use with the greatest potential exposure to Project DPM source emissions is at the Citrus High School located approximately 1,500 feet northwest of the Project site, west of Cypress Avenue. At the maximally exposed individual school child (MEISC), the maximum incremental cancer risk impact attributable to the Project at this location is calculated to be an estimated 0.07 in one million which is less than the significance threshold of 10 in one million. At

1 SCAQMD guidance does not require assessment of the potential health risk to on-site workers. Excerpts from the document OEHHA Air Toxics Hot Spots Program Risk Assessment Guidelines—The Air Toxics Hot Spots Program Guidance Manual for Preparation of Health Risk Assessments (OEHHA 2003), also indicate that it is not necessary to examine the health effects to on-site workers unless required by RCRA (Resource Conservation and Recovery Act) / CERCLA (Comprehensive Environmental Response, Compensation, and Liability Act) or the worker resides on-site.

this same location, non-cancer risks attributable to the Project were calculated to be 0.0001, which would not exceed the applicable significance threshold of 1.0. Any other schools near the Project site would be exposed to less emissions and consequently less impacts than what is disclosed for the MEISC. As such, the Project will not cause a significant human health or cancer risk to nearby school children.

TABLE ES-1: SUMMARY OF CANCER AND NON-CANCER RISKS – SCENARIO 1 – INTERIM CONDITIONS

Time Period	Location	Maximum Lifetime Cancer Risk (Risk per Million)	Significance Threshold (Risk per Million)	Exceeds Significance Threshold
30 Year Exposure	Maximum Exposed Sensitive Receptor	5.86	10	NO
25 Year Exposure	Maximum Exposed Worker Receptor	0.25	10	NO
9 Year Exposure	Maximum Exposed School Child Receptor	0.07	10	NO
Time Period	**Location**	**Maximum Hazard Index**	**Significance Threshold**	**Exceeds Significance Threshold**
Annual Average	Maximum Exposed Sensitive Receptor	0.002	1.0	NO
Annual Average	Maximum Exposed Worker Receptor	0.001	1.0	NO
Annual Average	Maximum Exposed School Child Receptor	0.0001	1.0	NO

1 INTRODUCTION

The purpose of this Health Risk Assessment (HRA) is to evaluate Project-related impacts to sensitive receptors (residential, schools) and adjacent workers as a result of heavy-duty diesel trucks accessing the site.

The South Coast Air Quality Management District (SCAQMD) reviewed the conceptual site plan for the proposed project and provided input to the City on the scope of the air quality analysis. SCAQMD identifies that if a proposed Project is expected to generate/attract heavy-duty diesel trucks, which emit diesel particulate matter (DPM), preparation of a mobile source HRA is recommended. This document serves to meet the SCAQMD's request for preparation of a HRA. The mobile source HRA has been prepared in accordance with the document Health Risk Assessment Guidance for Analyzing Cancer Risk from Mobile Source Diesel Idling Emissions for CEQA Air Quality Analysis (1) and is comprised of all relevant and appropriate procedures presented by the U.S. EPA, California Environmental Protection Agency and SCAQMD. Cancer risk is expressed in terms of expected incremental incidence per million population. The SCAQMD has established an incidence rate of ten (10) persons per million as the maximum acceptable incremental cancer risk due to DPM exposure. This threshold serves to determine whether or not a given project has a potentially significant development-specific and cumulative impact.

The AQMD has published a report on how to address cumulative impacts from air pollution: *White Paper on Potential Control Strategies to Address Cumulative Impacts from Air Pollution* (2). In this report the AQMD clearly states (Page D-3):

"…the AQMD uses the same significance thresholds for project specific and cumulative impacts for all environmental topics analyzed in an Environmental Assessment or EIR. The only case where the significance thresholds for project specific and cumulative impacts differ is the Hazard Index (HI) significance threshold for toxic air contaminant (TAC) emissions. The project specific (project increment) significance threshold is HI > 1.0 while the cumulative (facility-wide) is HI > 3.0. It should be noted that the HI is only one of three TAC emission significance thresholds considered (when applicable) in a CEQA analysis. The other two are the maximum individual cancer risk (MICR) and the cancer burden, both of which use the same significance thresholds (MICR of 10 in 1 million and cancer burden of 0.5) for project specific and cumulative impacts.

Projects that exceed the project-specific significance thresholds are considered by the SCAQMD to be cumulatively considerable. This is the reason project-specific and cumulative significance thresholds are the same. Conversely, projects that do not exceed the project-specific thresholds are generally not considered to be cumulatively significant."

The SCAQMD has also established non-carcinogenic risk parameters for use in HRAs. Non-carcinogenic risks are quantified by calculating a "hazard index," expressed as the ratio between the ambient pollutant concentration and its toxicity or Reference Exposure Level (REL). An REL is a concentration at or below which health effects are not likely to occur. A hazard index less of than one (1.0) means that adverse health effects are not expected. Within this analysis, non-carcinogenic exposures of less than 1.0 are considered less-than-significant.

1.1 SITE LOCATION

The proposed Fontana Foothill Commerce Center Project is located north of Jurupa Avenue, between Juniper Avenue and Sierra Avenue, in the City of Fontana, as shown on Exhibit 1-A. The Project site is located roughly 4,500 feet south of Interstate 10 (I-10) and Union Pacific Railroad (UPRR) lines, and approximately 7.75 miles east of the Los Angeles/Ontario International Airport (LA/ONT).

1.2 PROJECT DESCRIPTION

Exhibit 1-B illustrates the site plan for the Project. As indicated on Exhibit 1-B, the proposed Project is to consist of 758,020 square feet of warehouse/distribution center use across two buildings:

- Building 1: 423,570 square feet of high-cube transload and short-term warehouse use;
- Building 2: 325,450 square feet of high-cube transload and short-term warehouse use.

To present the potential worst-case conditions, the Project is assumed to be operational 24 hours per day, seven days per week. It is expected that the Project business operations would primarily be conducted within the enclosed buildings, except for traffic movement, parking, as well as loading and unloading of trucks at designated loading bays. This HRA is intended to describe emission impacts associated with the expected typical industrial warehouse activities at the Project site.

Per the *Fontana Foothill Commerce Center Traffic Impact Analysis* (TIA) prepared by Urban Crossroads, Inc., the Project is expected to generate a total of approximately 1,058 two-way vehicular trips per day (529 inbound and 529 outbound) which includes 342 two-way truck trips per day (171 inbound and 171 outbound) (3). This health risk assessment study evaluates the potential impacts resulting from diesel exhaust from the 171 two-way truck trips generated by the Project.

EXHIBIT 1-A: LOCATION MAP

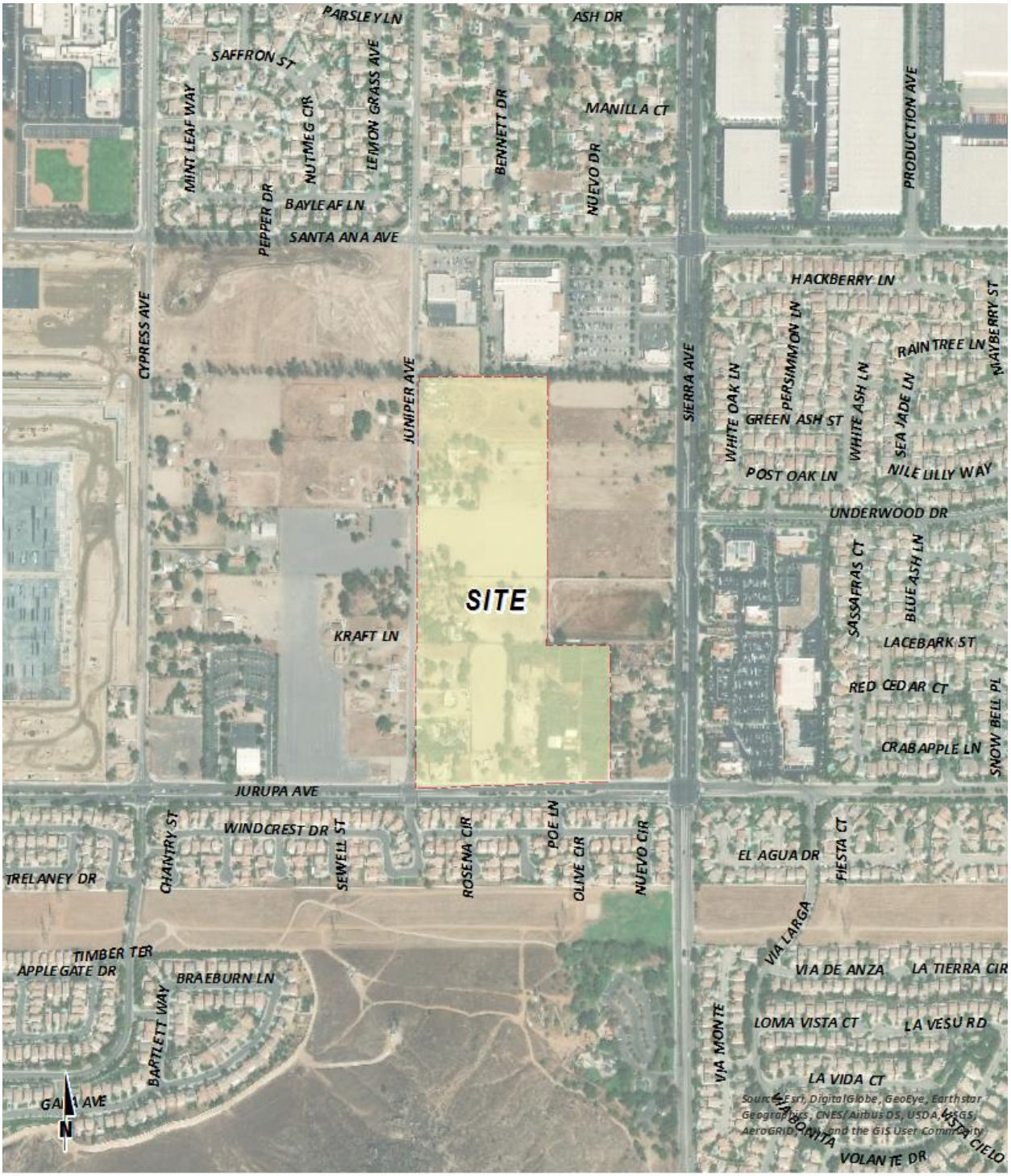
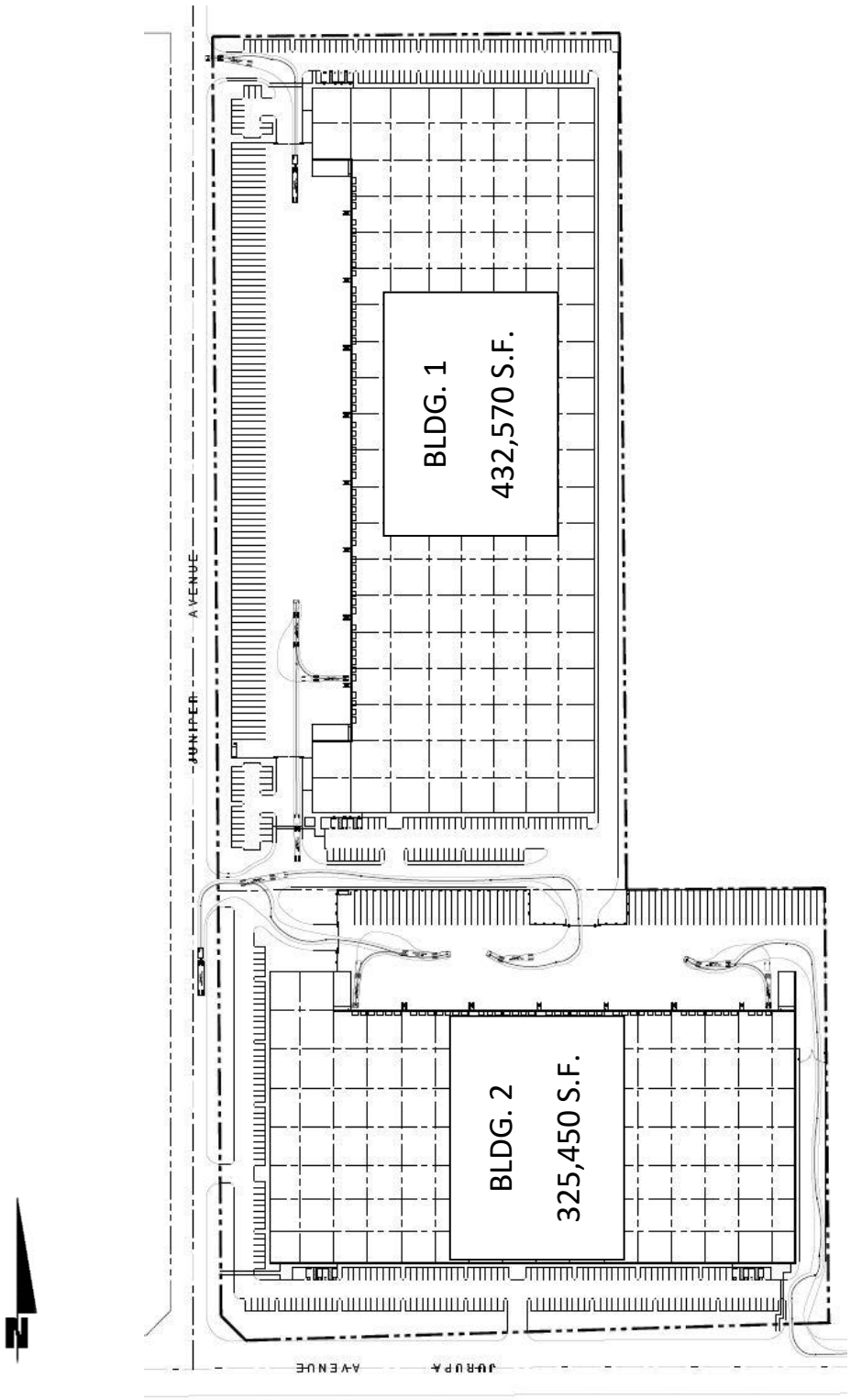


EXHIBIT 1-B: SITE PLAN



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2 BACKGROUND

2.1 BACKGROUND ON RECOMMENDED METHODOLOGY

As noted above, this HRA is based on SCAQMD guidelines to produce conservative estimates of risk posed by exposure to DPM. The conservative nature of this analysis is due primarily to the following factors:

- The ARB-adopted diesel exhaust Unit Risk Factor (URF) of 300 in one million per µg/m3 is based upon the upper 95 percentile of estimated risk for each of the epidemiological studies utilized to develop the URF. Using the 95th percentile URF represents a very conservative (health-protective) risk posed by DPM.
- The emissions derived assume that every truck accessing the project site will idle for 15 minutes under the unmitigated scenario, this is an overestimation of actual idling times and thus conservative.[2] It should be noted that ARB's anti-idling requirements impose a 5-minute maximum idling time and therefore the analysis conservatively overestimates DPM emissions from idling by a factor of 3.

2.2 EMISSIONS ESTIMATION

2.2.1 ON-SITE AND OFF-SITE TRUCK ACTIVITY

Vehicle DPM emissions were estimated using emission factors for particulate matter less than 10µm in diameter (PM_{10}) generated with the 2017 version of the Emission FACtor model (EMFAC) developed by the ARB. EMFAC 2017 is a mathematical model that was developed to calculate emission rates from motor vehicles that operate on highways, freeways, and local roads in California and is commonly used by the ARB to project changes in future emissions from on-road mobile sources (4). The most recent version of this model, EMFAC 2017, incorporates regional motor vehicle data, information and estimates regarding the distribution of vehicle miles traveled (VMT) by speed, and number of starts per day.

Several distinct emission processes are included in EMFAC 2017. Emission factors calculated using EMFAC 2017 are expressed in units of grams per vehicle miles traveled (g/VMT) or grams per idle-hour (g/idle-hr), depending on the emission process. The emission processes and corresponding emission factor units associated with diesel particulate exhaust for this Project are presented below.

For this Project, annual average PM_{10} emission factors were generated by running EMFAC 2017 in EMFAC Mode for vehicles in the San Bernardino County jurisdiction. The EMFAC Mode generates emission factors in terms of grams of pollutant emitted per vehicle activity and can calculate a matrix of emission factors at specific values of temperature, relative humidity, and

[2] Although the Project is required to comply with ARB's idling limit of 5 minutes, staff at SCAQMD recommends that the on-site idling emissions should be estimated for 15 minutes of truck idling (personal communication, in person, with Jillian Wong, December 22, 2016), which would take into account on-site idling which occurs while the trucks are waiting to pull up to the truck bays, idling at the bays, idling at check-in and check-out, etc.

vehicle speed. The model was run for speeds traveled in the vicinity of the Project. The vehicle travel speeds for each segment modeled are summarized below.

- Idling – on-site loading/unloading and truck gate
- 5 miles per hour – on-site vehicle movement including driving and maneuvering
- 25 miles per hour – off-site vehicle movement including driving and maneuvering.

Calculated emission factors are shown at Table 2-3. As a conservative measure, a 2022 EMFAC 2017 run was conducted and a static 2022 emissions factor data set was used for the entire duration of analysis herein (e.g., 30 years). Use of 2022 emission factors would overstate potential impacts since this approach assumes that emission factors remain "static" and do not change over time due to fleet turnover or cleaner technology with lower emissions that would be incorporated after 2022. Additionally, based on EMFAC 2017, Light-Heavy-Duty Trucks comprise of 47.8% diesel, Medium-Heavy-Duty Trucks comprise of 88.3% diesel, and Heavy-Heavy-Duty Trucks comprise of 96.1% diesel trucks and have been accounted for accordingly in the emissions factor generation.

The vehicle DPM exhaust emissions were calculated for running exhaust emissions. The running exhaust emissions were calculated by applying the running exhaust PM10 emission factor (g/VMT) from EMFAC over the total distance traveled. The following equation was used to estimate off-site emissions for each of the different vehicle classes comprising the mobile sources (4):

$Emissions_{speedA}$ (g/s) = $EF_{RunExhaust}$ (g/VMT) * Distance (VMT/trip) * Number of Trips (trips/day) / seconds per day

Where:

$Emissions_{speedA}$ (g/s): Vehicle emissions at a given speed A;

$EF_{RunExhaust}$ (g/VMT): EMFAC running exhaust PM_{10} emission factor at speed A;

Distance (VMT/trip): Total distance traveled per trip.

Similar to off-site traffic, on-site vehicle running emissions were calculated by applying the running exhaust PM_{10} emission factor (g/VMT) from EMFAC and the total vehicle trip number over the length of the driving path using the same formula presented above for on-site emissions. In addition, on-site vehicle idling exhaust emissions were calculated by applying the idle exhaust PM_{10} emission factor (g/idle-hr) from EMFAC and the total truck trip over the total idle time (15 minutes). The following equation was used to estimate the on-site vehicle idling emissions for each of the different vehicle classes (4):

$Emissions_{idle}$ (g/s) = EF_{idle} (g/hr) * Number of Trips (trips/day) * Idling Time (min/trip) *

60 minutes per hour / seconds per day

Where:

$Emissions_{idle}$ (g/s): Vehicle emissions during idling;

EF_{idle}(g/s): EMFAC idle exhaust PM_{10} emission factor.

TABLE 2-1: 2022 WEIGHTED AVERAGE DPM EMISSIONS FACTORS

Speed	Weighted Average
0 (idling)	0.09904 (g/idle-hr)
5	0.04353(g/s)
25	0.01897 (g/s)

Each roadway was modeled as a line source (made up of multiple adjacent volume sources). Due to the large number of volume sources modeled for this analysis, the corresponding coordinates of each volume source have not been included in this report but are included in Appendix "2.1". The DPM emission rate for each volume source was calculated by multiplying the emission factor (based on the average travel speed along the roadway) by the number of trips and the distance traveled along each roadway segment and dividing the result by the number of volume sources along that roadway, as illustrated on Table 2-2. The modeled emission sources are illustrated on Exhibit 2-A. The modeled truck travel routes included in the HRA are based on the anticipated truck trip distribution (inbound and outbound) consistent with other traffic studies in the vicinity, the anticipated truck trip distribution is illustrated on Exhibit 2-B. The modeling domain was extended along the Project's primary truck route and includes off-site sources in the study area for more than 3 miles. This modeling domain is substantially more conservative than using only a ¼ mile modeling domain, which is supported by substantial evidence since several studies have shown that the greatest potential risks occur within a ¼ mile of the primary source of emissions (5) (in the case of the Project this is the on-site idling and on-site travel).

On-site truck idling was estimated to occur as trucks enter and travel through the facility. Although the Project is required to comply with CARB's idling limit of 5 minutes, staff at SCAQMD recommends that the on-site idling emissions should be estimated for 15 minutes of truck idling (6), which would take into account on-site idling which occurs while the trucks are waiting to pull up to the truck bays, idling at the bays, idling at check-in and check-out, etc. As such, this analysis estimated truck idling at 15 minutes, consistent with SCAQMD's recommendation.

Per the *Fontana Foothill Commerce Center Traffic Impact Analysis* (TIA) prepared by Urban Crossroads, Inc., the Project is expected to generate a total of approximately 1,058 two-way vehicular trips per day (529 inbound and 529 outbound) which includes 342 two-way truck trips per day (171 inbound and 171 outbound) (3). This health risk assessment study evaluates the potential impacts resulting from diesel exhaust from the 171 two-way truck trips generated by the Project.

EXHIBIT 2-A: MODELED EMISSION SOURCES

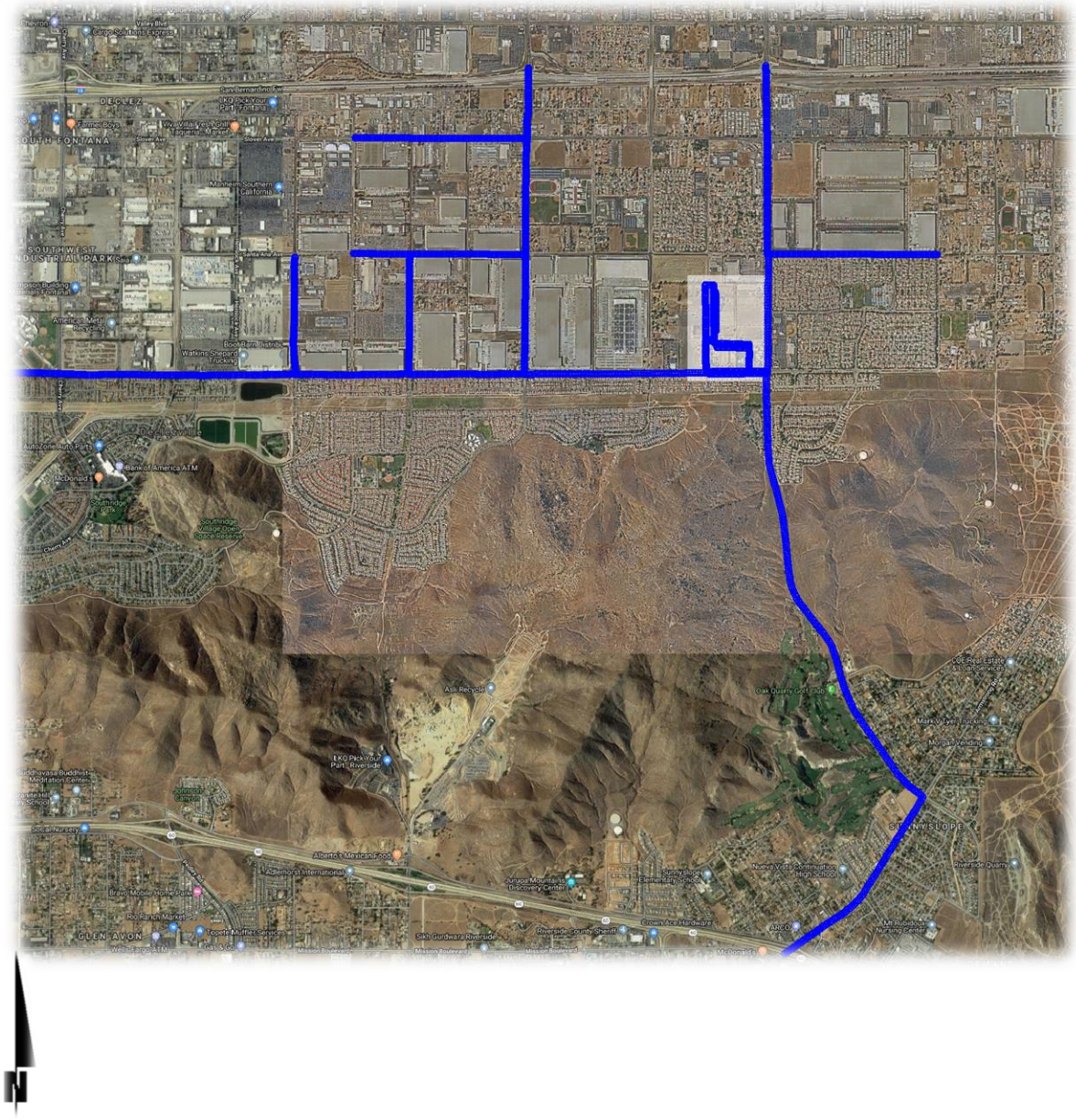


EXHIBIT 2-B: PROJECT TRUCK TRIP DISTRIBUTION

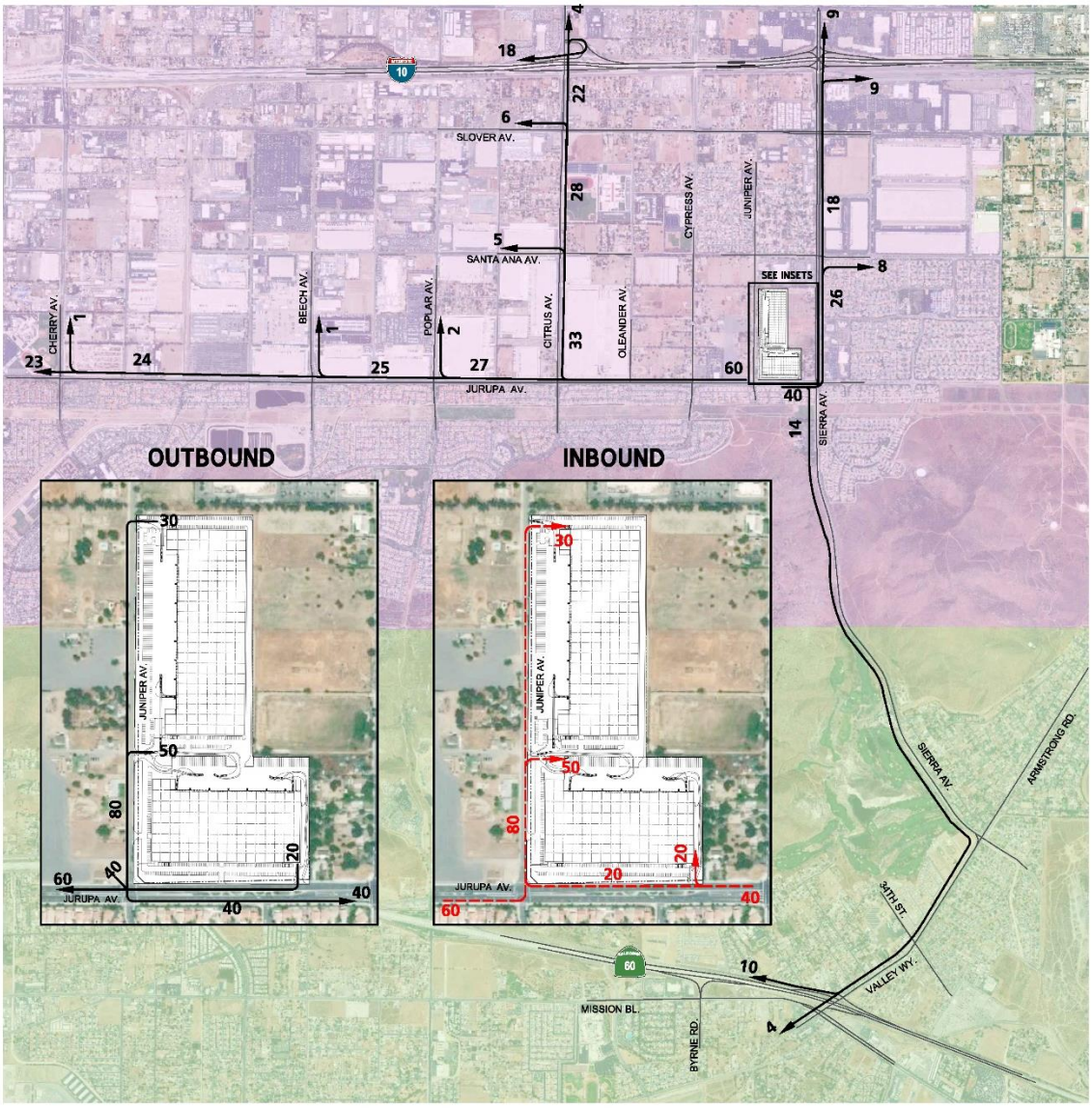


TABLE 2-2: DPM EMISSIONS FROM PROJECT TRUCKS (2022 ANALYSIS YEAR)

Truck Emission Rates						
Source	Trucks Per Day	VMT [a] (miles/day)	Truck Emission Rate [b] (grams/mile)	Truck Emission Rate [b] (grams/idle-hour)	Daily Truck Emissions [c] (grams/day)	Modeled Emission Rates (g/second)
On-Site Idling Building 1	98			0.0990	2.43	2.809E-05
On-Site Idling Building 2	73			0.0990	1.81	2.092E-05
On-Site Travel Building 1	196	53.94	0.0435		2.35	2.717E-05
On-Site Travel Building 2	146	41.79	0.0435		1.82	2.105E-05
Off-Site Travel 20% Outbound to Dwy 4	34	6.16	0.0190		0.12	1.352E-06
Off-Site Travel 20% Inbound to Juniper Ave.	34	6.16	0.0190		0.12	1.353E-06
Off-Site Travel 30% Inbound/Outbound Dwy 1	103	37.81	0.0190		0.72	8.302E-06
Off-Site Travel 50% Inbound/Outbund to Dwy 2	171	21.41	0.0190		0.41	4.701E-06
Off-Site Travel 20% Inbound Dwy 4	34	2.57	0.0190		0.05	5.637E-07
Off-Site Travel 40% Outbound from Juniper Ave.	68	16.69	0.0190		0.32	3.666E-06
Off-Site Travel 14% on Sierra Av. To Armstrong/Valley Wy	48	141.88	0.0190		2.69	3.115E-05
Off-Site Travel 26% Sierra Av. To Santa Ana Av.	89	45.78	0.0190		0.87	1.005E-05
Off-Site Travel 8% on Santa Ana Av.	27	20.27	0.0190		0.38	4.451E-06
Off-Site Travel 5% Santa Ana Av.	17	12.67	0.0190		0.24	2.782E-06
Off-Site Travel 6% Slover Av.	21	15.21	0.0190		0.29	3.339E-06
Off-Site Travel 18% to I-10/Sierra Av.	62	49.84	0.0190		0.95	1.094E-05
Off-Site Travel 60% Sierra Av. To Citrus	205	164.27	0.0190		3.12	3.607E-05
Off-Site Travel 33% Citrus Av. to Santa Ana	113	58.91	0.0190		1.12	1.294E-05
Off-Site Travel 28% Citrus Av. to Slover	96	47.32	0.0190		0.90	1.039E-05
Off-Site Travel 22% I-10/Slover	75	22.82	0.0190		0.43	5.010E-06
Off-Site Travel 27% Jurupa Av. to Poplar Av.	92	45.32	0.0190		0.86	9.950E-06
Off-Site Travel 2% on Poplar	7	3.51	0.0190		0.07	7.696E-07
Off-Site Travel 25% Jurupa Av. to Beech Av.	86	41.78	0.0190		0.79	9.175E-06
Off-Site Travel 1% on Beech Av.	3	1.71	0.0190		0.03	3.762E-07
Off-Site Travel 24% on Jurupa Av.	82	105.24	0.0190		2.00	2.311E-05

[a] Vehicle miles traveled are for modeled truck route only.

[b] Emission rates determined using EMFAC 2017. Idle emission rates are expressed in grams per idle hour rather than grams per mile.

[c] This column includes the total truck travel and truck idle emissions. For idle emissions this column includes emissions based on the assumption that each truck idles for 15 minutes.

2.3 EXPOSURE QUANTIFICATION

The analysis herein has been conducted in accordance with the guidelines in the Health Risk Assessment Guidance for Analyzing Cancer Risks from Mobile Source Diesel Idling Emissions for CEQA Air Quality Analysis (1). SCAQMD recommends using the Environmental Protection Agency's (U.S. EPA's) AERMOD model. For purposes of this analysis, the model was used to calculate annual average particulate concentrations associated with site operations.

The model offers additional flexibility by allowing the user to assign an initial release height and vertical dispersion parameters for mobile sources representative of a roadway. For this HRA, the roadways were modeled as adjacent volume sources. Roadways were modeled using the U.S. EPA's haul route methodology for modeling of on-site and off-site truck movement. More specifically, the Haul Road Volume Source Calculator in Lakes AERMOD View has been utilized to determine the release height parameters. Based on the US EPA methodology, the Project's modeled sources would result in a release height of 3.49 meters, and an initial lateral dimension of 4.0 meters, and an initial vertical dimension of 3.25 meters.

SCAQMD required model parameters are presented in Table 2-3 (7). The model requires additional input parameters including emission data and local meteorology. Meteorological data from the SCAQMD's Fontana monitoring station (SRA 33) was used to represent local weather conditions and prevailing winds (8). A wind rose exhibit of the Peris monitoring station is provided at Exhibit 2-C.

TABLE 2-3: AERMOD MODEL PARAMETERS

Dispersion Coefficient	Urban
Population	2,035,210
Terrain	Elevated (Regulatory Default)
Averaging Time	1 year (5-year Meteorological Data Set)
Receptor Height	0 meters (Regulatory Default)

Universal Transverse Mercator (UTM) coordinates for North American Datum 1983 (NAD 83) were used to locate the project boundaries, each volume source location, and receptor locations in the project vicinity. The AERMOD dispersion model summary output files for the proposed facility are presented in Appendix 2.1.

Receptors

Receptors in the Project study area include existing residential homes and industrial uses, as illustrated on Exhibit 2-D. Modeled receptors were placed at residential and non-residential locations. Receptors may be placed at applicable structure locations for residential and worker property and not necessarily the boundaries of these uses. It should be noted that the primary purpose of receptor placement is focused on long-term exposure. For example, the HRA evaluates the potential health risks to residential and worker over a period of 30 or 25 years of exposure, respectively. As such, even though it is unlikely to occur in practical terms (because the amount of time spent indoors), this study assumes that a resident or worker would be exposed over a long-period of time for 12 or 24-hours per day at the structure where they reside or work.

EXHIBIT 2-C: WIND ROSE (SRA 33)

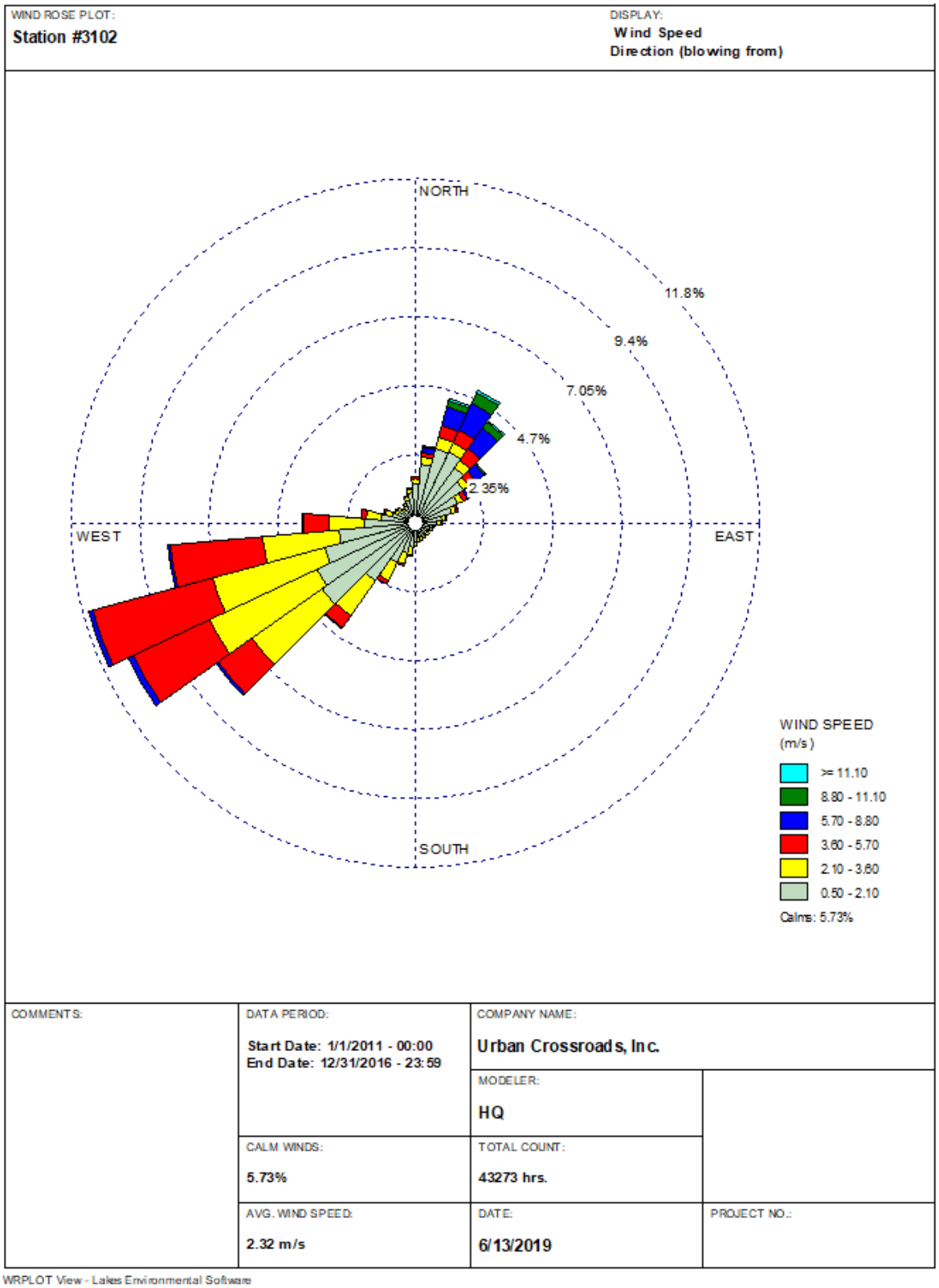
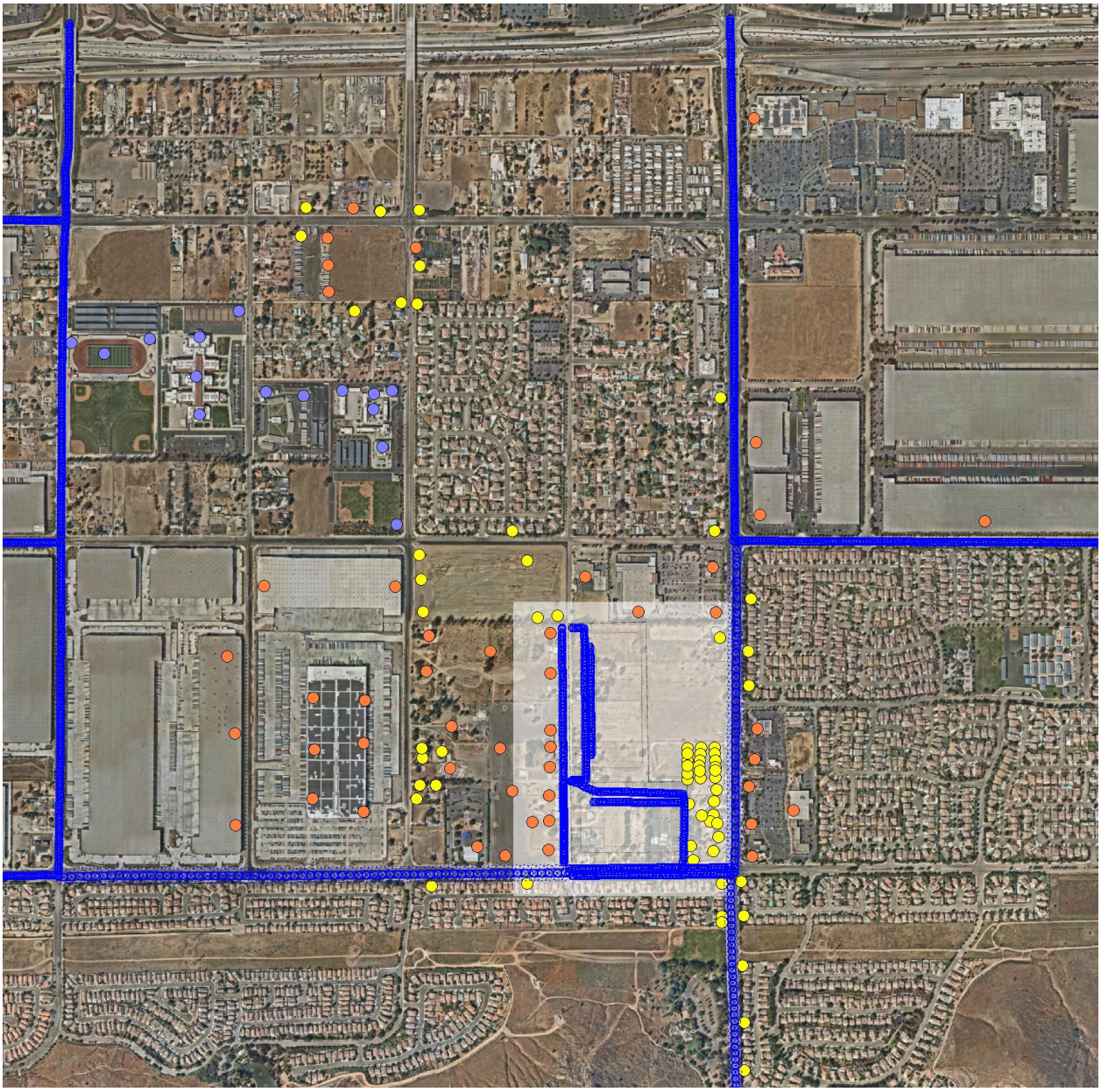


EXHIBIT 2-D: RECEPTOR LOCATIONS



Sensitive receptors near the Project site include existing residential homes and Citrus High School. Other sensitive land uses in the Project study area that are located at greater distances than those identified in this study will experience lower concentrations than those presented in this report due to particulate dispersion, additional attenuation from distance, and the shielding of intervening structures.

Discrete variants for daily breathing rates, exposure frequency, and exposure duration were obtained from relevant distribution profiles presented in the 2015 OEHHA Guidelines. Tables 2-4 through 2-6 summarize the Exposure Parameters for Residents, Offsite Worker, and School exposure scenarios based on 2015 OEHHA Guidelines. Appendix 2.2 includes the detailed risk calculation.

TABLE 2-4: EXPOSURE ASSUMPTIONS FOR INDIVIDUAL CANCER RISK (30 YEAR RESIDENTIAL)

Age	Daily Breathing Rate (L/kg-day)	Age Specific Factor	Exposure Duration (years)	Fraction of Time at Home	Exposure Frequency (days/year)	Exposure Time (hours/day)
-0.25 to 0	361	10	0.25	0.85	350	24
0 to 2	1,090	10	2	0.85	350	24
2 to 16	572	3	14	0.72	350	24
16 to 30	261	1	14	0.73	350	24

TABLE 2-5: EXPOSURE ASSUMPTIONS FOR INDIVIDUAL CANCER RISK (25 YEAR WORKER)

Age	Daily Breathing Rate (L/kg-day)	Age Specific Factor	Exposure Duration (years)	Exposure Frequency (days/year)	Exposure Time (hours/day)
16 to 41	230	1	25	250	12

TABLE 2-6: EXPOSURE ASSUMPTIONS FOR INDIVIDUAL CANCER RISK (9 YEAR SCHOOL CHILD)

Age	Daily Breathing Rate (L/kg-day)	Age Specific Factor	Exposure Duration (years)	Exposure Frequency (days/year) [a]	Exposure Time (hours/day)
2 to 16	572	3	9	180	12

[a] To represent the unique characteristics of the school-based population, the assessment employed the U.S. Environmental Protection Agency's guidance to develop viable dose estimates based on reasonable maximum exposures (RME). RME's are defined as the "highest exposure that is reasonably expected to occur" for a given receptor population. As a result, lifetime risk values for the student population were adjusted to account for an exposure duration of 180 days per year for nine (9) years. The 9 year exposure duration is also consistent with OEHHA Recommendations and consistent with the exposure duration utilized in school-based risk assessments for various schools within the Los Angeles County Unified School District (LAUSD) that have been accepted by the SCAQMD.

2.4 CARCINOGENIC CHEMICAL RISK

The SCAQMD CEQA Air Quality Handbook (1993) states that emissions of toxic air contaminants (TACs) are considered significant if a HRA shows an increased risk of greater than 10 in one million. Based on guidance from the SCAQMD in the document Health Risk Assessment Guidance for Analyzing Cancer Risks from Mobile Source Diesel Idling Emissions for CEQA Air Quality Analysis (1), for purposes of this analysis, 10 in one million is used as the cancer risk threshold for the proposed Project.

Excess cancer risks are estimated as the upper-bound incremental probability that an individual will develop cancer over a lifetime as a direct result of exposure to potential carcinogens over a specified exposure duration. The estimated risk is expressed as a unitless probability. The cancer risk attributed to a chemical is calculated by multiplying the chemical intake or dose at the human exchange boundaries (e.g., lungs) by the chemical-specific cancer potency factor (CPF). A risk level of 10 in one million implies a likelihood that up to 10 people, out of one million equally exposed people would contract cancer if exposed continuously (24 hours per day) to the levels of toxic air contaminants over a specified duration of time. As an example, the risk of dying from accidental drowning is 1,000 in a million which is 100 times more than the SCAQMD's threshold of 10 in one million, the nearest comparison to 10 in one million is the 7 in one million lifetime chance that an individual would be struck by lightning (9).

Guidance from CARB and the California Environmental Protection Agency, Office of Environmental Health Hazard Assessment (OEHHA) recommends a refinement to the standard point estimate approach when alternate human body weights and breathing rates are utilized to assess risk for susceptible subpopulations such as children. For the inhalation pathway, the procedure requires the incorporation of several discrete variates to effectively quantify dose. Once determined, contaminant dose is multiplied by the cancer potency factor (CPF) in units of inverse dose expressed in milligrams per kilogram per day (mg/kg/day)-1 to derive the cancer risk estimate. Therefore, to assess exposures, the following dose algorithm was utilized.

$$DOSEair = (Cair \times [BR/BW] \times A \times EF) \times (1 \times 10^{-6})$$

Where:

DOSEair = chronic daily intake (mg/kg/day)

Cair = concentration of contaminant in air (ug/m3)

[BR/BW] = daily breathing rate normalized to body weight (L/kg BW-day)

A = inhalation absorption factor

EF = exposure frequency (days/365 days)

BW = body weight (kg)

1 x 10 -6 = conversion factors (ug to mg, L to m3)

RISKair = DOSEair x CPF x ED/AT

Where:

DOSEair	=	chronic daily intake (mg/kg/day)
CPF	=	cancer potency factor
ED	=	number of years within particular age group
AT	=	averaging time

2.5 NON-CARCINOGENIC EXPOSURES

An evaluation of the potential noncarcinogenic effects of chronic exposures was also conducted. Adverse health effects are evaluated by comparing a compound's annual concentration with its toxicity factor or Reference Exposure Level (REL). The REL for diesel particulates was obtained from OEHHA for this analysis. The chronic reference exposure level (REL) for DPM was established by OEHHA as 5 $\mu g/m^3$ (OEHHA Toxicity Criteria Database, http://www.oehha.org/risk/chemicaldb/index.asp).

The non-cancer hazard index was calculated (consistent with SCAQMD methodology) as follows:

The relationship for the non-cancer health effects of DPM is given by the following equation:

$$HI_{DPM} = C_{DPM}/REL_{DPM}$$

Where:

HI_{DPM}	=	Hazard Index; an expression of the potential for non-cancer health effects.
C_{DPM}	=	Annual average DPM concentration ($\mu g/m^3$).
REL_{DPM}	=	Reference exposure level (REL) for DPM; the DPM concentration at which no adverse health effects are anticipated.

For purposes of this analysis the hazard index for the respiratory endpoint totaled less than one for all receptors in the project vicinity, and thus is less than significant.

2.6 POTENTIAL PROJECT-RELATED DPM SOURCE CANCER AND NON-CANCER RISKS

Residential Exposure Scenario:

The residential land use with the greatest potential exposure to Project DPM source emissions is located at an existing residential home immediately adjacent to the east of Building 2. At the MEIR, the maximum incremental cancer risk attributable to Project DPM source emissions is estimated at 5.86 in one million, which is less than the threshold of 10 in one million. At this same location, non-cancer risks were estimated to be 0.002, which would not exceed the applicable threshold of 1.0. As such, the Project will not cause a significant human health or cancer risk to adjacent residences. All other residential locations in the vicinity of the Project would be exposed to less emissions and therefore less risk than the MEIR identified herein.

Worker Exposure Scenario:

The worker receptor land use with the greatest potential exposure to Project DPM source emissions is located immediately adjacent to the west of Building 1 at the proposed Goodman Logistics Center Fontana III Project. At the MEIW, the maximum incremental cancer risk impact at this location is 0.25 in one million[3] which is less than the threshold of 10 in one million. Maximum non-cancer risks at this same location were estimated to be 0.001, which would not exceed the applicable threshold of 1.0. As such, the Project will not cause a significant human health or cancer risk to adjacent workers. All other modeled worker locations in the vicinity of the Project would be exposed to less emissions and therefore less risk than the MEIW identified herein.

School Child Exposure Scenario:

The school site land use with the greatest potential exposure to Project DPM source emissions is at the Citrus High School located approximately 1,500 feet northwest of the Project site, west of Cypress Avenue. At the MEISC, the maximum incremental cancer risk impact attributable to the Project at this location is calculated to be an estimated 0.07 in one million which is less than the significance threshold of 10 in one million. At this same location, non-cancer risks attributable to the Project were calculated to be 0.0001, which would not exceed the applicable significance threshold of 1.0. Any other schools near the Project site would be exposed to less emissions and consequently less impacts than what is disclosed for the MEISC. As such, the Project will not cause a significant human health or cancer risk to nearby school children.

3 SCAQMD guidance does not require assessment of the potential health risk to on-site workers. Excerpts from the document OEHHA Air Toxics Hot Spots Program Risk Assessment Guidelines—The Air Toxics Hot Spots Program Guidance Manual for Preparation of Health Risk Assessments (OEHHA 2003), also indicate that it is not necessary to examine the health effects to on-site workers unless required by RCRA (Resource Conservation and Recovery Act) / CERCLA (Comprehensive Environmental Response, Compensation, and Liability Act) or the worker resides on-site.

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3 REFERENCES

1. **South Coast Air Quality Managment District.** Mobile Source Toxics Analysis. [Online] 2003. http://www.aqmd.gov/ceqa/handbook/mobile_toxic/mobile_toxic.html.
2. **Goss, Tracy A and Kroeger, Amy.** White Paper on Potential Control Strategies to Address Cumulative Impacts from Air Pollution. [Online] South Coast Air Quality Management District, 2003. http://www.aqmd.gov/rules/ciwg/final_white_paper.pdf.
3. **Urban Crossroads, Inc.** *Fontana Foothill Commerce Center Traffic Impact Analysis.* 2020.
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5. **Air Resources Board.** *Air Quality and Land Use Handbook: A Community Health Perspective.* 2005.
6. **Wong, Jillian.** *Planning, Rule Development & Area Sources.* December 22, 2016.
7. **Environmental Protection Agency.** User's Guide for the AMS/EPA Regulatory Model - AERMOD. [Online] September 2004. http://www.epa.gov/scram001/7thconf/aermod/aermodugb.pdf.
8. **South Coast Air Quality Management District.** *Air Quality Reporting.* [pdf] Diamond Bar : Sierra Wade Associates, 1999.
9. **National Safety Council.** Injury Fact Chart. [Online] [Cited: September 18, 2019.] https://www.nsc.org/work-safety/tools-resources/injury-facts/chart.

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4 CERTIFICATION

The contents of this health risk assessment represent an accurate depiction of the impacts to sensitive receptors associated with the proposed Fontana Foothill Commerce Center Project. The information contained in this health risk assessment report is based on the best available data at the time of preparation. If you have any questions, please contact me directly at (949) 336-5987.

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EDUCATION

Master of Science in Environmental Studies
California State University, Fullerton • May, 2010

Bachelor of Arts in Environmental Analysis and Design
University of California, Irvine • June, 2006

PROFESSIONAL AFFILIATIONS

AEP – Association of Environmental Planners
AWMA – Air and Waste Management Association
ASTM – American Society for Testing and Materials

PROFESSIONAL CERTIFICATIONS

Environmental Site Assessment – American Society for Testing and Materials • June, 2013
Planned Communities and Urban Infill – Urban Land Institute • June, 2011
Indoor Air Quality and Industrial Hygiene – EMSL Analytical • April, 2008
Principles of Ambient Air Monitoring – California Air Resources Board • August, 2007
AB2588 Regulatory Standards – Trinity Consultants • November, 2006
Air Dispersion Modeling – Lakes Environmental • June, 2006

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APPENDIX 2.1:

AERMOD MODEL INPUT/OUTPUT

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** LAKES ENVIRONMENTAL SOFTWARE INC.
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CO FINISHED
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** 459458.610, 3767803.653, 318.00, 0.00, 4.00
** 459525.819, 3767803.232, 318.00, 0.00, 4.00
** 459682.965, 3767797.142, 318.00, 0.00, 4.00
** 459683.832, 3767718.265, 318.95, 0.00, 4.00
** 459681.404, 3767626.729, 320.08, 0.00, 4.00
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   LOCATION L0010164     VOLUME   459403.170 3767828.649 318.00
   LOCATION L0010165     VOLUME   459411.453 3767826.372 318.00
   LOCATION L0010166     VOLUME   459419.735 3767824.095 318.00
   LOCATION L0010167     VOLUME   459427.105 3767819.828 318.00
   LOCATION L0010168     VOLUME   459434.231 3767815.031 318.00
   LOCATION L0010169     VOLUME   459441.492 3767810.489 318.00
   LOCATION L0010170     VOLUME   459449.469 3767807.303 318.00
   LOCATION L0010171     VOLUME   459457.446 3767804.117 318.00
   LOCATION L0010172     VOLUME   459465.947 3767803.607 318.00
   LOCATION L0010173     VOLUME   459474.536 3767803.553 318.00
   LOCATION L0010174     VOLUME   459483.126 3767803.499 318.00
   LOCATION L0010175     VOLUME   459491.716 3767803.445 318.00
   LOCATION L0010176     VOLUME   459500.306 3767803.391 318.00
   LOCATION L0010177     VOLUME   459508.896 3767803.338 318.00
   LOCATION L0010178     VOLUME   459517.486 3767803.284 318.00
   LOCATION L0010179     VOLUME   459526.075 3767803.222 318.00
   LOCATION L0010180     VOLUME   459534.659 3767802.889 318.00
   LOCATION L0010181     VOLUME   459543.242 3767802.556 318.00
   LOCATION L0010182     VOLUME   459551.826 3767802.224 318.00
   LOCATION L0010183     VOLUME   459560.409 3767801.891 318.00
   LOCATION L0010184     VOLUME   459568.993 3767801.558 318.00
   LOCATION L0010185     VOLUME   459577.577 3767801.226 318.00
   LOCATION L0010186     VOLUME   459586.160 3767800.893 318.00
   LOCATION L0010187     VOLUME   459594.744 3767800.561 318.00
   LOCATION L0010188     VOLUME   459603.327 3767800.228 318.00
   LOCATION L0010189     VOLUME   459611.911 3767799.895 318.00
   LOCATION L0010190     VOLUME   459620.494 3767799.563 318.00
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   LOCATION L0010191     VOLUME   459629.078 3767799.230 318.00
   LOCATION L0010192     VOLUME   459637.661 3767798.897 318.00
   LOCATION L0010193     VOLUME   459646.245 3767798.565 318.00
   LOCATION L0010194     VOLUME   459654.829 3767798.232 318.00
   LOCATION L0010195     VOLUME   459663.412 3767797.900 318.00
   LOCATION L0010196     VOLUME   459671.996 3767797.567 318.00
   LOCATION L0010197     VOLUME   459680.579 3767797.234 318.00
   LOCATION L0010198     VOLUME   459683.033 3767790.939 318.00
   LOCATION L0010199     VOLUME   459683.127 3767782.350 318.00
   LOCATION L0010200     VOLUME   459683.222 3767773.760 318.00
   LOCATION L0010201     VOLUME   459683.316 3767765.171 318.00
   LOCATION L0010202     VOLUME   459683.411 3767756.582 318.00
   LOCATION L0010203     VOLUME   459683.505 3767747.992 318.00
   LOCATION L0010204     VOLUME   459683.599 3767739.403 318.23
   LOCATION L0010205     VOLUME   459683.694 3767730.813 318.52
   LOCATION L0010206     VOLUME   459683.788 3767722.224 318.80
   LOCATION L0010207     VOLUME   459683.709 3767713.635 319.00
   LOCATION L0010208     VOLUME   459683.481 3767705.048 319.00
   LOCATION L0010209     VOLUME   459683.253 3767696.461 319.00
   LOCATION L0010210     VOLUME   459683.026 3767687.875 319.00
   LOCATION L0010211     VOLUME   459682.798 3767679.288 319.24
   LOCATION L0010212     VOLUME   459682.570 3767670.701 319.52
   LOCATION L0010213     VOLUME   459682.342 3767662.114 319.81
   LOCATION L0010214     VOLUME   459682.114 3767653.527 320.00
   LOCATION L0010215     VOLUME   459681.887 3767644.940 320.00
   LOCATION L0010216     VOLUME   459681.659 3767636.353 320.00
   LOCATION L0010217     VOLUME   459681.431 3767627.766 320.00
** END OF LINE VOLUME SOURCE ID = SLINE4
** ----------------------------------------------------------------------
** LINE SOURCE REPRESENTED BY ADJACENT VOLUME SOURCES
** LINE VOLUME SOURCE ID = SLINE5
** DESCRSRC OFF-SITE TRAVEL 20% OUTBOUND DWY 4
** PREFIX
** LENGTH OF SIDE = 8.59
** CONFIGURATION = ADJACENT
** EMISSION RATE = 1.352E-06
** VERTICAL DIMENSION = 6.99
** SZINIT = 3.25
** NODES = 2
** 459682.809, 3767613.421, 320.27, 3.49, 4.00
** 459393.062, 3767609.317, 320.07, 3.49, 4.00
** ----------------------------------------------------------------------
   LOCATION L0010218     VOLUME   459678.514 3767613.361 320.43
   LOCATION L0010219     VOLUME   459669.925 3767613.239 320.44
   LOCATION L0010220     VOLUME   459661.336 3767613.117 320.32
   LOCATION L0010221     VOLUME   459652.747 3767612.996 320.20
   LOCATION L0010222     VOLUME   459644.158 3767612.874 320.07
   LOCATION L0010223     VOLUME   459635.569 3767612.752 320.00
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   LOCATION L0010224     VOLUME   459626.980 3767612.631 320.00
   LOCATION L0010225     VOLUME   459618.390 3767612.509 320.00
   LOCATION L0010226     VOLUME   459609.801 3767612.387 320.00
   LOCATION L0010227     VOLUME   459601.212 3767612.266 319.85
   LOCATION L0010228     VOLUME   459592.623 3767612.144 319.70
   LOCATION L0010229     VOLUME   459584.034 3767612.022 319.55
   LOCATION L0010230     VOLUME   459575.445 3767611.901 319.48
   LOCATION L0010231     VOLUME   459566.856 3767611.779 319.49
   LOCATION L0010232     VOLUME   459558.267 3767611.657 319.49
   LOCATION L0010233     VOLUME   459549.677 3767611.536 319.49
   LOCATION L0010234     VOLUME   459541.088 3767611.414 319.50
   LOCATION L0010235     VOLUME   459532.499 3767611.292 319.50
   LOCATION L0010236     VOLUME   459523.910 3767611.171 319.51
   LOCATION L0010237     VOLUME   459515.321 3767611.049 319.51
   LOCATION L0010238     VOLUME   459506.732 3767610.927 319.51
   LOCATION L0010239     VOLUME   459498.143 3767610.806 319.52
   LOCATION L0010240     VOLUME   459489.553 3767610.684 319.52
   LOCATION L0010241     VOLUME   459480.964 3767610.562 319.53
   LOCATION L0010242     VOLUME   459472.375 3767610.441 319.53
   LOCATION L0010243     VOLUME   459463.786 3767610.319 319.53
   LOCATION L0010244     VOLUME   459455.197 3767610.197 319.54
   LOCATION L0010245     VOLUME   459446.608 3767610.076 319.54
   LOCATION L0010246     VOLUME   459438.019 3767609.954 319.55
   LOCATION L0010247     VOLUME   459429.429 3767609.832 319.55
   LOCATION L0010248     VOLUME   459420.840 3767609.711 319.55
   LOCATION L0010249     VOLUME   459412.251 3767609.589 319.56
   LOCATION L0010250     VOLUME   459403.662 3767609.468 319.56
   LOCATION L0010251     VOLUME   459395.073 3767609.346 319.50
** END OF LINE VOLUME SOURCE ID = SLINE5
** ----------------------------------------------------------------------
** LINE SOURCE REPRESENTED BY ADJACENT VOLUME SOURCES
** LINE VOLUME SOURCE ID = SLINE6
** DESCRSRC OFF-SITE TRAVEL 20% INBOUND TO JUNIPER AV.
** PREFIX
** LENGTH OF SIDE = 8.59
** CONFIGURATION = ADJACENT
** EMISSION RATE = 1.353E-06
** VERTICAL DIMENSION = 6.99
** SZINIT = 3.25
** NODES = 2
** 459682.809, 3767613.421, 320.27, 3.49, 4.00
** 459393.062, 3767609.317, 320.07, 3.49, 4.00
** ----------------------------------------------------------------------
   LOCATION L0010252     VOLUME   459678.514 3767613.361 320.43
   LOCATION L0010253     VOLUME   459669.925 3767613.239 320.44
   LOCATION L0010254     VOLUME   459661.336 3767613.117 320.32
   LOCATION L0010255     VOLUME   459652.747 3767612.996 320.20
   LOCATION L0010256     VOLUME   459644.158 3767612.874 320.07
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   LOCATION L0010257     VOLUME   459635.569 3767612.752 320.00
   LOCATION L0010258     VOLUME   459626.980 3767612.631 320.00
   LOCATION L0010259     VOLUME   459618.390 3767612.509 320.00
   LOCATION L0010260     VOLUME   459609.801 3767612.387 320.00
   LOCATION L0010261     VOLUME   459601.212 3767612.266 319.85
   LOCATION L0010262     VOLUME   459592.623 3767612.144 319.70
   LOCATION L0010263     VOLUME   459584.034 3767612.022 319.55
   LOCATION L0010264     VOLUME   459575.445 3767611.901 319.48
   LOCATION L0010265     VOLUME   459566.856 3767611.779 319.49
   LOCATION L0010266     VOLUME   459558.267 3767611.657 319.49
   LOCATION L0010267     VOLUME   459549.677 3767611.536 319.49
   LOCATION L0010268     VOLUME   459541.088 3767611.414 319.50
   LOCATION L0010269     VOLUME   459532.499 3767611.292 319.50
   LOCATION L0010270     VOLUME   459523.910 3767611.171 319.51
   LOCATION L0010271     VOLUME   459515.321 3767611.049 319.51
   LOCATION L0010272     VOLUME   459506.732 3767610.927 319.51
   LOCATION L0010273     VOLUME   459498.143 3767610.806 319.52
   LOCATION L0010274     VOLUME   459489.553 3767610.684 319.52
   LOCATION L0010275     VOLUME   459480.964 3767610.562 319.53
   LOCATION L0010276     VOLUME   459472.375 3767610.441 319.53
   LOCATION L0010277     VOLUME   459463.786 3767610.319 319.53
   LOCATION L0010278     VOLUME   459455.197 3767610.197 319.54
   LOCATION L0010279     VOLUME   459446.608 3767610.076 319.54
   LOCATION L0010280     VOLUME   459438.019 3767609.954 319.55
   LOCATION L0010281     VOLUME   459429.429 3767609.832 319.55
   LOCATION L0010282     VOLUME   459420.840 3767609.711 319.55
   LOCATION L0010283     VOLUME   459412.251 3767609.589 319.56
   LOCATION L0010284     VOLUME   459403.662 3767609.468 319.56
   LOCATION L0010285     VOLUME   459395.073 3767609.346 319.50
** END OF LINE VOLUME SOURCE ID = SLINE6
** ----------------------------------------------------------------------
** LINE SOURCE REPRESENTED BY ADJACENT VOLUME SOURCES
** LINE VOLUME SOURCE ID = SLINE7
** DESCRSRC OFF-SITE TRAVEL 30% INBOUND/OUTBOUND DWY 1
** PREFIX
** LENGTH OF SIDE = 8.59
** CONFIGURATION = ADJACENT
** EMISSION RATE = 8.302E-06
** VERTICAL DIMENSION = 6.99
** SZINIT = 3.25
** NODES = 2
** 459376.877, 3768214.194, 320.00, 3.49, 4.00
** 459382.286, 3767621.166, 318.55, 3.49, 4.00
** ----------------------------------------------------------------------
   LOCATION L0010286     VOLUME   459376.916 3768209.899 320.00
   LOCATION L0010287     VOLUME   459376.994 3768201.310 320.00
   LOCATION L0010288     VOLUME   459377.072 3768192.720 320.00
   LOCATION L0010289     VOLUME   459377.151 3768184.130 320.00
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LOCATION	L0010290	VOLUME	459377.229	3768175.541 320.00
LOCATION	L0010291	VOLUME	459377.307	3768166.951 320.00
LOCATION	L0010292	VOLUME	459377.386	3768158.361 319.80
LOCATION	L0010293	VOLUME	459377.464	3768149.772 319.59
LOCATION	L0010294	VOLUME	459377.542	3768141.182 319.38
LOCATION	L0010295	VOLUME	459377.621	3768132.593 319.23
LOCATION	L0010296	VOLUME	459377.699	3768124.003 319.16
LOCATION	L0010297	VOLUME	459377.778	3768115.413 319.08
LOCATION	L0010298	VOLUME	459377.856	3768106.824 319.00
LOCATION	L0010299	VOLUME	459377.934	3768098.234 319.00
LOCATION	L0010300	VOLUME	459378.013	3768089.644 319.00
LOCATION	L0010301	VOLUME	459378.091	3768081.055 319.00
LOCATION	L0010302	VOLUME	459378.169	3768072.465 319.00
LOCATION	L0010303	VOLUME	459378.248	3768063.875 319.00
LOCATION	L0010304	VOLUME	459378.326	3768055.286 319.00
LOCATION	L0010305	VOLUME	459378.404	3768046.696 319.00
LOCATION	L0010306	VOLUME	459378.483	3768038.106 319.00
LOCATION	L0010307	VOLUME	459378.561	3768029.517 319.00
LOCATION	L0010308	VOLUME	459378.639	3768020.927 319.00
LOCATION	L0010309	VOLUME	459378.718	3768012.338 319.00
LOCATION	L0010310	VOLUME	459378.796	3768003.748 319.00
LOCATION	L0010311	VOLUME	459378.874	3767995.158 319.00
LOCATION	L0010312	VOLUME	459378.953	3767986.569 319.00
LOCATION	L0010313	VOLUME	459379.031	3767977.979 319.00
LOCATION	L0010314	VOLUME	459379.109	3767969.389 319.00
LOCATION	L0010315	VOLUME	459379.188	3767960.800 319.00
LOCATION	L0010316	VOLUME	459379.266	3767952.210 318.86
LOCATION	L0010317	VOLUME	459379.344	3767943.620 318.58
LOCATION	L0010318	VOLUME	459379.423	3767935.031 318.29
LOCATION	L0010319	VOLUME	459379.501	3767926.441 318.00
LOCATION	L0010320	VOLUME	459379.580	3767917.851 318.00
LOCATION	L0010321	VOLUME	459379.658	3767909.262 318.00
LOCATION	L0010322	VOLUME	459379.736	3767900.672 318.00
LOCATION	L0010323	VOLUME	459379.815	3767892.083 318.00
LOCATION	L0010324	VOLUME	459379.893	3767883.493 318.00
LOCATION	L0010325	VOLUME	459379.971	3767874.903 318.00
LOCATION	L0010326	VOLUME	459380.050	3767866.314 318.00
LOCATION	L0010327	VOLUME	459380.128	3767857.724 318.00
LOCATION	L0010328	VOLUME	459380.206	3767849.134 318.00
LOCATION	L0010329	VOLUME	459380.285	3767840.545 318.00
LOCATION	L0010330	VOLUME	459380.363	3767831.955 317.91
LOCATION	L0010331	VOLUME	459380.441	3767823.365 317.72
LOCATION	L0010332	VOLUME	459380.520	3767814.776 317.54
LOCATION	L0010333	VOLUME	459380.598	3767806.186 317.36
LOCATION	L0010334	VOLUME	459380.676	3767797.596 317.26
LOCATION	L0010335	VOLUME	459380.755	3767789.007 317.16
LOCATION	L0010336	VOLUME	459380.833	3767780.417 317.05
LOCATION	L0010337	VOLUME	459380.911	3767771.828 317.00

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   LOCATION L0010338     VOLUME   459380.990 3767763.238 317.00
   LOCATION L0010339     VOLUME   459381.068 3767754.648 317.00
   LOCATION L0010340     VOLUME   459381.146 3767746.059 317.00
   LOCATION L0010341     VOLUME   459381.225 3767737.469 317.00
   LOCATION L0010342     VOLUME   459381.303 3767728.879 317.00
   LOCATION L0010343     VOLUME   459381.382 3767720.290 317.00
   LOCATION L0010344     VOLUME   459381.460 3767711.700 317.06
   LOCATION L0010345     VOLUME   459381.538 3767703.110 317.18
   LOCATION L0010346     VOLUME   459381.617 3767694.521 317.29
   LOCATION L0010347     VOLUME   459381.695 3767685.931 317.41
   LOCATION L0010348     VOLUME   459381.773 3767677.341 317.58
   LOCATION L0010349     VOLUME   459381.852 3767668.752 317.76
   LOCATION L0010350     VOLUME   459381.930 3767660.162 317.93
   LOCATION L0010351     VOLUME   459382.008 3767651.573 318.07
   LOCATION L0010352     VOLUME   459382.087 3767642.983 318.19
   LOCATION L0010353     VOLUME   459382.165 3767634.393 318.31
   LOCATION L0010354     VOLUME   459382.243 3767625.804 318.45
** END OF LINE VOLUME SOURCE ID = SLINE7
** ----------------------------------------------------------------------
** LINE SOURCE REPRESENTED BY ADJACENT VOLUME SOURCES
** LINE VOLUME SOURCE ID = SLINE8
** DESCRSRC OFF-SITE TRAVEL 50% INBOUND/OUTBOUND DWY 2
** PREFIX
** LENGTH OF SIDE = 8.59
** CONFIGURATION = ADJACENT
** EMISSION RATE = 4.701E-06
** VERTICAL DIMENSION = 6.99
** SZINIT = 3.25
** NODES = 2
** 459380.563, 3767823.778, 317.66, 3.49, 4.00
** 459382.344, 3767622.315, 318.53, 3.49, 4.00
** ----------------------------------------------------------------------
   LOCATION L0010355     VOLUME   459380.601 3767819.484 317.64
   LOCATION L0010356     VOLUME   459380.677 3767810.894 317.46
   LOCATION L0010357     VOLUME   459380.753 3767802.304 317.32
   LOCATION L0010358     VOLUME   459380.829 3767793.715 317.22
   LOCATION L0010359     VOLUME   459380.905 3767785.125 317.11
   LOCATION L0010360     VOLUME   459380.981 3767776.535 317.00
   LOCATION L0010361     VOLUME   459381.057 3767767.946 317.00
   LOCATION L0010362     VOLUME   459381.133 3767759.356 317.00
   LOCATION L0010363     VOLUME   459381.209 3767750.766 317.00
   LOCATION L0010364     VOLUME   459381.285 3767742.177 317.00
   LOCATION L0010365     VOLUME   459381.360 3767733.587 317.00
   LOCATION L0010366     VOLUME   459381.436 3767724.997 317.00
   LOCATION L0010367     VOLUME   459381.512 3767716.408 317.00
   LOCATION L0010368     VOLUME   459381.588 3767707.818 317.11
   LOCATION L0010369     VOLUME   459381.664 3767699.228 317.23
   LOCATION L0010370     VOLUME   459381.740 3767690.639 317.35
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   LOCATION L0010371     VOLUME   459381.816 3767682.049 317.49
   LOCATION L0010372     VOLUME   459381.892 3767673.459 317.66
   LOCATION L0010373     VOLUME   459381.968 3767664.870 317.83
   LOCATION L0010374     VOLUME   459382.044 3767656.280 318.00
   LOCATION L0010375     VOLUME   459382.119 3767647.690 318.12
   LOCATION L0010376     VOLUME   459382.195 3767639.101 318.24
   LOCATION L0010377     VOLUME   459382.271 3767630.511 318.36
** END OF LINE VOLUME SOURCE ID = SLINE8
** ----------------------------------------------------------------
** LINE SOURCE REPRESENTED BY ADJACENT VOLUME SOURCES
** LINE VOLUME SOURCE ID = SLINE9
** DESCRSRC OFF-SITE TRAVEL 20% INBOUND DWY 4
** PREFIX
** LENGTH OF SIDE = 8.59
** CONFIGURATION = ADJACENT
** EMISSION RATE = 5.637E-07
** VERTICAL DIMENSION = 6.99
** SZINIT = 3.25
** NODES = 2
** 459799.509, 3767612.811, 321.52, 3.49, 4.00
** 459678.684, 3767611.802, 320.36, 3.49, 4.00
** ----------------------------------------------------------------
   LOCATION L0010378     VOLUME   459795.214 3767612.775 321.55
   LOCATION L0010379     VOLUME   459786.625 3767612.703 321.45
   LOCATION L0010380     VOLUME   459778.035 3767612.632 321.46
   LOCATION L0010381     VOLUME   459769.445 3767612.560 321.46
   LOCATION L0010382     VOLUME   459760.856 3767612.488 321.46
   LOCATION L0010383     VOLUME   459752.266 3767612.416 321.35
   LOCATION L0010384     VOLUME   459743.676 3767612.345 321.22
   LOCATION L0010385     VOLUME   459735.087 3767612.273 321.09
   LOCATION L0010386     VOLUME   459726.497 3767612.201 320.95
   LOCATION L0010387     VOLUME   459717.907 3767612.130 320.80
   LOCATION L0010388     VOLUME   459709.317 3767612.058 320.65
   LOCATION L0010389     VOLUME   459700.728 3767611.986 320.50
   LOCATION L0010390     VOLUME   459692.138 3767611.914 320.48
   LOCATION L0010391     VOLUME   459683.548 3767611.843 320.48
** END OF LINE VOLUME SOURCE ID = SLINE9
** ----------------------------------------------------------------
** LINE SOURCE REPRESENTED BY ADJACENT VOLUME SOURCES
** LINE VOLUME SOURCE ID = SLINE10
** DESCRSRC OFF-SITE TRAVEL 40% OUTBOUND FROM JUNIPER AV.
** PREFIX
** LENGTH OF SIDE = 8.59
** CONFIGURATION = ADJACENT
** EMISSION RATE = 3.666E-06
** VERTICAL DIMENSION = 6.99
** SZINIT = 3.25
** NODES = 2
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** 459402.222, 3767592.379, 320.03, 3.49, 4.00
** 459794.969, 3767595.406, 322.00, 3.49, 4.00
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   LOCATION L0010392     VOLUME   459406.517 3767592.412 320.13
   LOCATION L0010393     VOLUME   459415.107 3767592.478 320.13
   LOCATION L0010394     VOLUME   459423.697 3767592.545 320.13
   LOCATION L0010395     VOLUME   459432.286 3767592.611 320.12
   LOCATION L0010396     VOLUME   459440.876 3767592.677 320.12
   LOCATION L0010397     VOLUME   459449.466 3767592.743 320.12
   LOCATION L0010398     VOLUME   459458.055 3767592.809 320.12
   LOCATION L0010399     VOLUME   459466.645 3767592.876 320.12
   LOCATION L0010400     VOLUME   459475.235 3767592.942 320.11
   LOCATION L0010401     VOLUME   459483.825 3767593.008 320.11
   LOCATION L0010402     VOLUME   459492.414 3767593.074 320.10
   LOCATION L0010403     VOLUME   459501.004 3767593.140 320.07
   LOCATION L0010404     VOLUME   459509.594 3767593.207 320.03
   LOCATION L0010405     VOLUME   459518.184 3767593.273 320.00
   LOCATION L0010406     VOLUME   459526.773 3767593.339 320.00
   LOCATION L0010407     VOLUME   459535.363 3767593.405 320.00
   LOCATION L0010408     VOLUME   459543.953 3767593.471 320.00
   LOCATION L0010409     VOLUME   459552.543 3767593.538 320.00
   LOCATION L0010410     VOLUME   459561.132 3767593.604 320.00
   LOCATION L0010411     VOLUME   459569.722 3767593.670 320.00
   LOCATION L0010412     VOLUME   459578.312 3767593.736 320.00
   LOCATION L0010413     VOLUME   459586.902 3767593.802 320.02
   LOCATION L0010414     VOLUME   459595.491 3767593.869 320.04
   LOCATION L0010415     VOLUME   459604.081 3767593.935 320.07
   LOCATION L0010416     VOLUME   459612.671 3767594.001 320.08
   LOCATION L0010417     VOLUME   459621.261 3767594.067 320.08
   LOCATION L0010418     VOLUME   459629.850 3767594.133 320.07
   LOCATION L0010419     VOLUME   459638.440 3767594.200 320.07
   LOCATION L0010420     VOLUME   459647.030 3767594.266 320.30
   LOCATION L0010421     VOLUME   459655.620 3767594.332 320.57
   LOCATION L0010422     VOLUME   459664.209 3767594.398 320.83
   LOCATION L0010423     VOLUME   459672.799 3767594.464 321.00
   LOCATION L0010424     VOLUME   459681.389 3767594.531 321.00
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   LOCATION L0010426     VOLUME   459698.568 3767594.663 321.00
   LOCATION L0010427     VOLUME   459707.158 3767594.729 321.01
   LOCATION L0010428     VOLUME   459715.748 3767594.795 321.03
   LOCATION L0010429     VOLUME   459724.338 3767594.862 321.04
   LOCATION L0010430     VOLUME   459732.927 3767594.928 321.15
   LOCATION L0010431     VOLUME   459741.517 3767594.994 321.42
   LOCATION L0010432     VOLUME   459750.107 3767595.060 321.70
   LOCATION L0010433     VOLUME   459758.697 3767595.126 321.97
   LOCATION L0010434     VOLUME   459767.286 3767595.193 322.00
   LOCATION L0010435     VOLUME   459775.876 3767595.259 322.00
   LOCATION L0010436     VOLUME   459784.466 3767595.325 322.00
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   LOCATION L0010437     VOLUME   459793.056 3767595.391 322.00
** END OF LINE VOLUME SOURCE ID = SLINE10
** ----------------------------------------------------------------------
** LINE SOURCE REPRESENTED BY ADJACENT VOLUME SOURCES
** LINE VOLUME SOURCE ID = SLINE11
** DESCRSRC OFF-SITE TRAVEL 14% SIERRA AV TO ARMSTRONG/VALLEY WY
** PREFIX
** LENGTH OF SIDE = 16.00
** CONFIGURATION = ADJACENT
** EMISSION RATE = 0.00003115
** VERTICAL DIMENSION = 6.99
** SZINIT = 3.25
** NODES = 43
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   LOCATION L0010443     VOLUME   459801.388 3767514.496 323.00
   LOCATION L0010444     VOLUME   459801.653 3767498.499 323.26
   LOCATION L0010445     VOLUME   459801.919 3767482.501 323.79
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   LOCATION L0010473     VOLUME   459816.543 3767034.844 339.79
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LOCATION	L0010572	VOLUME	460299.095	3765562.498 325.07

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LOCATION L0010661     VOLUME   460736.134 3764377.600 284.00
LOCATION L0010662     VOLUME   460727.530 3764364.110 284.00
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LOCATION L0010664     VOLUME   460710.673 3764336.913 283.54
LOCATION L0010665     VOLUME   460702.399 3764323.218 283.51
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LOCATION L0010679     VOLUME   460586.552 3764131.501 281.00
LOCATION L0010680     VOLUME   460578.278 3764117.807 281.00
LOCATION L0010681     VOLUME   460570.003 3764104.113 280.59
LOCATION L0010682     VOLUME   460561.728 3764090.419 280.14
LOCATION L0010683     VOLUME   460553.139 3764076.921 280.00
LOCATION L0010684     VOLUME   460544.440 3764063.493 280.00
LOCATION L0010685     VOLUME   460535.740 3764050.065 279.79
LOCATION L0010686     VOLUME   460527.040 3764036.637 279.34
LOCATION L0010687     VOLUME   460518.340 3764023.209 279.00
LOCATION L0010688     VOLUME   460509.640 3764009.781 279.00
LOCATION L0010689     VOLUME   460501.238 3763996.165 279.00
LOCATION L0010690     VOLUME   460492.919 3763982.498 278.79
LOCATION L0010691     VOLUME   460484.600 3763968.831 278.85
LOCATION L0010692     VOLUME   460476.281 3763955.164 278.67
LOCATION L0010693     VOLUME   460466.299 3763942.661 278.56
LOCATION L0010694     VOLUME   460456.304 3763930.167 278.62
LOCATION L0010695     VOLUME   460445.929 3763918.013 278.46
LOCATION L0010696     VOLUME   460434.615 3763906.699 278.51
LOCATION L0010697     VOLUME   460423.302 3763895.385 278.56
LOCATION L0010698     VOLUME   460411.988 3763884.072 278.26
LOCATION L0010699     VOLUME   460400.674 3763872.758 278.00
LOCATION L0010700     VOLUME   460388.320 3763862.602 278.00
LOCATION L0010701     VOLUME   460375.860 3763852.565 278.00
LOCATION L0010702     VOLUME   460363.400 3763842.528 278.00
LOCATION L0010703     VOLUME   460350.940 3763832.490 278.00
LOCATION L0010704     VOLUME   460338.480 3763822.453 278.00
LOCATION L0010705     VOLUME   460326.020 3763812.416 277.87
LOCATION L0010706     VOLUME   460313.021 3763803.161 277.56
LOCATION L0010707     VOLUME   460299.208 3763795.086 277.29
LOCATION L0010708     VOLUME   460285.395 3763787.011 277.01
LOCATION L0010709     VOLUME   460271.582 3763778.936 276.77
LOCATION L0010710     VOLUME   460257.770 3763770.861 276.69
LOCATION L0010711     VOLUME   460244.035 3763762.665 276.88
LOCATION L0010712     VOLUME   460231.015 3763753.365 276.90
LOCATION L0010713     VOLUME   460217.995 3763744.065 276.59
LOCATION L0010714     VOLUME   460204.976 3763734.765 276.28
LOCATION L0010715     VOLUME   460191.956 3763725.466 276.00
LOCATION L0010716     VOLUME   460178.936 3763716.166 276.00
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   LOCATION L0010717     VOLUME   460165.914 3763706.869 276.00
   LOCATION L0010718     VOLUME   460152.848 3763697.635 276.00
   LOCATION L0010719     VOLUME   460139.781 3763688.402 276.00
   LOCATION L0010720     VOLUME   460126.714 3763679.168 276.00
   LOCATION L0010721     VOLUME   460113.647 3763669.935 276.00
   LOCATION L0010722     VOLUME   460100.580 3763660.701 276.00
   LOCATION L0010723     VOLUME   460087.514 3763651.468 276.00
   LOCATION L0010724     VOLUME   460074.447 3763642.234 276.00
   LOCATION L0010725     VOLUME   460061.380 3763633.001 276.00
   LOCATION L0010726     VOLUME   460048.313 3763623.767 276.00
   LOCATION L0010727     VOLUME   460035.246 3763614.534 276.00
   LOCATION L0010728     VOLUME   460022.179 3763605.300 276.00
   LOCATION L0010729     VOLUME   460009.113 3763596.067 276.00
   LOCATION L0010730     VOLUME   459996.046 3763586.833 276.00
   LOCATION L0010731     VOLUME   459982.979 3763577.599 276.00
   LOCATION L0010732     VOLUME   459969.912 3763568.366 277.05
   LOCATION L0010733     VOLUME   459956.845 3763559.132 277.81
   LOCATION L0010734     VOLUME   459943.778 3763549.899 278.01
   LOCATION L0010735     VOLUME   459930.712 3763540.665 278.88
** END OF LINE VOLUME SOURCE ID = SLINE11
** ----------------------------------------------------------------------
** LINE SOURCE REPRESENTED BY ADJACENT VOLUME SOURCES
** LINE VOLUME SOURCE ID = SLINE12
** DESCRSRC OFF-SITE TRAVEL 26% ON SIERRA AV TO SANTA ANA AV.
** PREFIX
** LENGTH OF SIDE = 20.00
** CONFIGURATION = ADJACENT
** EMISSION RATE = 0.00001005
** VERTICAL DIMENSION = 6.99
** SZINIT = 3.25
** NODES = 4
** 459809.730, 3767601.022, 322.00, 3.49, 9.30
** 459812.304, 3767695.686, 320.13, 3.49, 9.30
** 459811.732, 3767799.216, 318.18, 3.49, 9.30
** 459816.217, 3768429.493, 323.92, 3.49, 9.30
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   LOCATION L0010736     VOLUME   459810.001 3767611.019 321.84
   LOCATION L0010737     VOLUME   459810.545 3767631.011 321.59
   LOCATION L0010738     VOLUME   459811.089 3767651.004 321.13
   LOCATION L0010739     VOLUME   459811.632 3767670.996 320.51
   LOCATION L0010740     VOLUME   459812.176 3767690.989 320.00
   LOCATION L0010741     VOLUME   459812.219 3767710.987 320.00
   LOCATION L0010742     VOLUME   459812.108 3767730.987 319.51
   LOCATION L0010743     VOLUME   459811.998 3767750.986 318.96
   LOCATION L0010744     VOLUME   459811.887 3767770.986 318.79
   LOCATION L0010745     VOLUME   459811.777 3767790.986 318.38
   LOCATION L0010746     VOLUME   459811.815 3767810.985 318.11
   LOCATION L0010747     VOLUME   459811.958 3767830.985 318.61
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   LOCATION L0010748     VOLUME   459812.100 3767850.984 318.87
   LOCATION L0010749     VOLUME   459812.242 3767870.984 319.00
   LOCATION L0010750     VOLUME   459812.385 3767890.983 319.00
   LOCATION L0010751     VOLUME   459812.527 3767910.983 319.00
   LOCATION L0010752     VOLUME   459812.669 3767930.982 319.15
   LOCATION L0010753     VOLUME   459812.812 3767950.982 319.82
   LOCATION L0010754     VOLUME   459812.954 3767970.981 320.00
   LOCATION L0010755     VOLUME   459813.096 3767990.981 320.00
   LOCATION L0010756     VOLUME   459813.239 3768010.980 320.00
   LOCATION L0010757     VOLUME   459813.381 3768030.980 320.00
   LOCATION L0010758     VOLUME   459813.523 3768050.979 320.12
   LOCATION L0010759     VOLUME   459813.666 3768070.979 320.66
   LOCATION L0010760     VOLUME   459813.808 3768090.978 320.90
   LOCATION L0010761     VOLUME   459813.950 3768110.978 321.00
   LOCATION L0010762     VOLUME   459814.093 3768130.977 321.00
   LOCATION L0010763     VOLUME   459814.235 3768150.977 321.00
   LOCATION L0010764     VOLUME   459814.377 3768170.976 321.00
   LOCATION L0010765     VOLUME   459814.520 3768190.976 321.00
   LOCATION L0010766     VOLUME   459814.662 3768210.975 321.49
   LOCATION L0010767     VOLUME   459814.804 3768230.975 322.00
   LOCATION L0010768     VOLUME   459814.947 3768250.974 322.00
   LOCATION L0010769     VOLUME   459815.089 3768270.974 322.00
   LOCATION L0010770     VOLUME   459815.231 3768290.973 322.15
   LOCATION L0010771     VOLUME   459815.374 3768310.973 322.82
   LOCATION L0010772     VOLUME   459815.516 3768330.972 323.00
   LOCATION L0010773     VOLUME   459815.659 3768350.972 323.00
   LOCATION L0010774     VOLUME   459815.801 3768370.971 323.00
   LOCATION L0010775     VOLUME   459815.943 3768390.971 323.00
   LOCATION L0010776     VOLUME   459816.086 3768410.970 323.15
** END OF LINE VOLUME SOURCE ID = SLINE12
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** LINE SOURCE REPRESENTED BY ADJACENT VOLUME SOURCES
** LINE VOLUME SOURCE ID = SLINE13
** DESCRSRC OFF-SITE TRAVEL 8% SANTA ANA AV.
** PREFIX
** LENGTH OF SIDE = 8.59
** CONFIGURATION = ADJACENT
** EMISSION RATE = 4.451E-06
** VERTICAL DIMENSION = 6.99
** SZINIT = 3.25
** NODES = 2
** 459808.041, 3768432.822, 323.91, 3.49, 4.00
** 461000.488, 3768427.062, 323.57, 3.49, 4.00
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   LOCATION L0010777     VOLUME   459812.336 3768432.802 323.88
   LOCATION L0010778     VOLUME   459820.925 3768432.760 323.89
   LOCATION L0010779     VOLUME   459829.515 3768432.719 323.92
   LOCATION L0010780     VOLUME   459838.105 3768432.677 323.95
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LOCATION	L0010781	VOLUME	459846.695	3768432.636 323.99
LOCATION	L0010782	VOLUME	459855.285	3768432.594 324.00
LOCATION	L0010783	VOLUME	459863.875	3768432.553 324.00
LOCATION	L0010784	VOLUME	459872.465	3768432.511 324.00
LOCATION	L0010785	VOLUME	459881.055	3768432.470 324.00
LOCATION	L0010786	VOLUME	459889.645	3768432.428 324.00
LOCATION	L0010787	VOLUME	459898.235	3768432.387 324.00
LOCATION	L0010788	VOLUME	459906.824	3768432.345 324.00
LOCATION	L0010789	VOLUME	459915.414	3768432.304 324.00
LOCATION	L0010790	VOLUME	459924.004	3768432.262 324.00
LOCATION	L0010791	VOLUME	459932.594	3768432.221 324.00
LOCATION	L0010792	VOLUME	459941.184	3768432.179 324.00
LOCATION	L0010793	VOLUME	459949.774	3768432.138 324.00
LOCATION	L0010794	VOLUME	459958.364	3768432.096 324.00
LOCATION	L0010795	VOLUME	459966.954	3768432.055 324.00
LOCATION	L0010796	VOLUME	459975.544	3768432.013 324.00
LOCATION	L0010797	VOLUME	459984.134	3768431.972 324.00
LOCATION	L0010798	VOLUME	459992.723	3768431.930 324.00
LOCATION	L0010799	VOLUME	460001.313	3768431.889 324.00
LOCATION	L0010800	VOLUME	460009.903	3768431.847 324.00
LOCATION	L0010801	VOLUME	460018.493	3768431.806 324.00
LOCATION	L0010802	VOLUME	460027.083	3768431.764 324.00
LOCATION	L0010803	VOLUME	460035.673	3768431.723 324.00
LOCATION	L0010804	VOLUME	460044.263	3768431.681 324.00
LOCATION	L0010805	VOLUME	460052.853	3768431.640 324.00
LOCATION	L0010806	VOLUME	460061.443	3768431.598 324.00
LOCATION	L0010807	VOLUME	460070.033	3768431.557 324.00
LOCATION	L0010808	VOLUME	460078.622	3768431.515 324.00
LOCATION	L0010809	VOLUME	460087.212	3768431.474 324.00
LOCATION	L0010810	VOLUME	460095.802	3768431.432 324.00
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LOCATION	L0010813	VOLUME	460121.572	3768431.308 323.99
LOCATION	L0010814	VOLUME	460130.162	3768431.266 323.94
LOCATION	L0010815	VOLUME	460138.752	3768431.225 323.89
LOCATION	L0010816	VOLUME	460147.342	3768431.183 323.84
LOCATION	L0010817	VOLUME	460155.932	3768431.142 323.83
LOCATION	L0010818	VOLUME	460164.521	3768431.100 323.83
LOCATION	L0010819	VOLUME	460173.111	3768431.059 323.82
LOCATION	L0010820	VOLUME	460181.701	3768431.017 323.82
LOCATION	L0010821	VOLUME	460190.291	3768430.976 323.82
LOCATION	L0010822	VOLUME	460198.881	3768430.934 323.82
LOCATION	L0010823	VOLUME	460207.471	3768430.893 323.82
LOCATION	L0010824	VOLUME	460216.061	3768430.851 323.82
LOCATION	L0010825	VOLUME	460224.651	3768430.810 323.82
LOCATION	L0010826	VOLUME	460233.241	3768430.768 323.81
LOCATION	L0010827	VOLUME	460241.831	3768430.727 323.81
LOCATION	L0010828	VOLUME	460250.420	3768430.685 323.81

LOCATION	L0010829	VOLUME	460259.010	3768430.644 323.81
LOCATION	L0010830	VOLUME	460267.600	3768430.602 323.81
LOCATION	L0010831	VOLUME	460276.190	3768430.561 323.85
LOCATION	L0010832	VOLUME	460284.780	3768430.519 323.90
LOCATION	L0010833	VOLUME	460293.370	3768430.478 323.96
LOCATION	L0010834	VOLUME	460301.960	3768430.436 324.00
LOCATION	L0010835	VOLUME	460310.550	3768430.395 324.00
LOCATION	L0010836	VOLUME	460319.140	3768430.353 324.00
LOCATION	L0010837	VOLUME	460327.730	3768430.312 324.00
LOCATION	L0010838	VOLUME	460336.319	3768430.270 324.00
LOCATION	L0010839	VOLUME	460344.909	3768430.229 324.00
LOCATION	L0010840	VOLUME	460353.499	3768430.187 324.00
LOCATION	L0010841	VOLUME	460362.089	3768430.146 324.00
LOCATION	L0010842	VOLUME	460370.679	3768430.104 324.00
LOCATION	L0010843	VOLUME	460379.269	3768430.063 324.00
LOCATION	L0010844	VOLUME	460387.859	3768430.021 324.00
LOCATION	L0010845	VOLUME	460396.449	3768429.980 324.00
LOCATION	L0010846	VOLUME	460405.039	3768429.938 324.00
LOCATION	L0010847	VOLUME	460413.629	3768429.897 324.00
LOCATION	L0010848	VOLUME	460422.218	3768429.855 324.00
LOCATION	L0010849	VOLUME	460430.808	3768429.814 324.00
LOCATION	L0010850	VOLUME	460439.398	3768429.772 324.00
LOCATION	L0010851	VOLUME	460447.988	3768429.731 324.00
LOCATION	L0010852	VOLUME	460456.578	3768429.689 324.00
LOCATION	L0010853	VOLUME	460465.168	3768429.648 324.00
LOCATION	L0010854	VOLUME	460473.758	3768429.606 324.00
LOCATION	L0010855	VOLUME	460482.348	3768429.565 324.00
LOCATION	L0010856	VOLUME	460490.938	3768429.523 324.00
LOCATION	L0010857	VOLUME	460499.528	3768429.482 324.00
LOCATION	L0010858	VOLUME	460508.117	3768429.440 324.00
LOCATION	L0010859	VOLUME	460516.707	3768429.399 324.00
LOCATION	L0010860	VOLUME	460525.297	3768429.357 324.00
LOCATION	L0010861	VOLUME	460533.887	3768429.316 324.00
LOCATION	L0010862	VOLUME	460542.477	3768429.274 324.00
LOCATION	L0010863	VOLUME	460551.067	3768429.233 324.00
LOCATION	L0010864	VOLUME	460559.657	3768429.191 324.00
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LOCATION	L0010870	VOLUME	460611.196	3768428.942 324.00
LOCATION	L0010871	VOLUME	460619.786	3768428.901 324.00
LOCATION	L0010872	VOLUME	460628.376	3768428.859 324.00
LOCATION	L0010873	VOLUME	460636.966	3768428.818 324.00
LOCATION	L0010874	VOLUME	460645.556	3768428.776 324.00
LOCATION	L0010875	VOLUME	460654.146	3768428.735 324.00
LOCATION	L0010876	VOLUME	460662.736	3768428.693 324.00

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   LOCATION L0010877     VOLUME   460671.326 3768428.652 324.00
   LOCATION L0010878     VOLUME   460679.915 3768428.611 324.00
   LOCATION L0010879     VOLUME   460688.505 3768428.569 324.00
   LOCATION L0010880     VOLUME   460697.095 3768428.528 324.00
   LOCATION L0010881     VOLUME   460705.685 3768428.486 324.00
   LOCATION L0010882     VOLUME   460714.275 3768428.445 324.00
   LOCATION L0010883     VOLUME   460722.865 3768428.403 324.00
   LOCATION L0010884     VOLUME   460731.455 3768428.362 324.00
   LOCATION L0010885     VOLUME   460740.045 3768428.320 324.00
   LOCATION L0010886     VOLUME   460748.635 3768428.279 324.00
   LOCATION L0010887     VOLUME   460757.225 3768428.237 324.00
   LOCATION L0010888     VOLUME   460765.814 3768428.196 324.00
   LOCATION L0010889     VOLUME   460774.404 3768428.154 324.00
   LOCATION L0010890     VOLUME   460782.994 3768428.113 324.00
   LOCATION L0010891     VOLUME   460791.584 3768428.071 324.00
   LOCATION L0010892     VOLUME   460800.174 3768428.030 324.00
   LOCATION L0010893     VOLUME   460808.764 3768427.988 324.00
   LOCATION L0010894     VOLUME   460817.354 3768427.947 324.00
   LOCATION L0010895     VOLUME   460825.944 3768427.905 324.00
   LOCATION L0010896     VOLUME   460834.534 3768427.864 324.00
   LOCATION L0010897     VOLUME   460843.124 3768427.822 324.00
   LOCATION L0010898     VOLUME   460851.713 3768427.781 324.00
   LOCATION L0010899     VOLUME   460860.303 3768427.739 324.00
   LOCATION L0010900     VOLUME   460868.893 3768427.698 324.00
   LOCATION L0010901     VOLUME   460877.483 3768427.656 324.00
   LOCATION L0010902     VOLUME   460886.073 3768427.615 324.00
   LOCATION L0010903     VOLUME   460894.663 3768427.573 324.00
   LOCATION L0010904     VOLUME   460903.253 3768427.532 324.00
   LOCATION L0010905     VOLUME   460911.843 3768427.490 324.00
   LOCATION L0010906     VOLUME   460920.433 3768427.449 324.00
   LOCATION L0010907     VOLUME   460929.023 3768427.407 324.00
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   LOCATION L0010910     VOLUME   460954.792 3768427.283 324.00
   LOCATION L0010911     VOLUME   460963.382 3768427.241 323.96
   LOCATION L0010912     VOLUME   460971.972 3768427.200 323.87
   LOCATION L0010913     VOLUME   460980.562 3768427.158 323.79
   LOCATION L0010914     VOLUME   460989.152 3768427.117 323.70
   LOCATION L0010915     VOLUME   460997.742 3768427.075 323.50
** END OF LINE VOLUME SOURCE ID = SLINE13
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** LINE SOURCE REPRESENTED BY ADJACENT VOLUME SOURCES
** LINE VOLUME SOURCE ID = SLINE14
** DESCRSRC OFF-SITE TRAVEL 5% SANTA ANA AV.
** PREFIX
** LENGTH OF SIDE = 8.59
** CONFIGURATION = ADJACENT
** EMISSION RATE = 2.782E-06
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** VERTICAL DIMENSION = 6.99
** SZINIT = 3.25
** NODES = 2
** 456915.879, 3768433.816, 307.95, 3.49, 4.00
** 458108.327, 3768428.056, 316.83, 3.49, 4.00
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   LOCATION L0010917     VOLUME   456928.764 3768433.754 307.97
   LOCATION L0010918     VOLUME   456937.354 3768433.713 307.99
   LOCATION L0010919     VOLUME   456945.944 3768433.671 308.19
   LOCATION L0010920     VOLUME   456954.534 3768433.630 308.45
   LOCATION L0010921     VOLUME   456963.124 3768433.588 308.71
   LOCATION L0010922     VOLUME   456971.714 3768433.547 308.91
   LOCATION L0010923     VOLUME   456980.304 3768433.505 308.94
   LOCATION L0010924     VOLUME   456988.894 3768433.464 308.97
   LOCATION L0010925     VOLUME   456997.484 3768433.422 308.99
   LOCATION L0010926     VOLUME   457006.073 3768433.381 309.00
   LOCATION L0010927     VOLUME   457014.663 3768433.339 309.00
   LOCATION L0010928     VOLUME   457023.253 3768433.298 309.00
   LOCATION L0010929     VOLUME   457031.843 3768433.256 309.07
   LOCATION L0010930     VOLUME   457040.433 3768433.215 309.32
   LOCATION L0010931     VOLUME   457049.023 3768433.173 309.58
   LOCATION L0010932     VOLUME   457057.613 3768433.132 309.83
   LOCATION L0010933     VOLUME   457066.203 3768433.090 309.89
   LOCATION L0010934     VOLUME   457074.793 3768433.049 309.89
   LOCATION L0010935     VOLUME   457083.382 3768433.007 309.89
   LOCATION L0010936     VOLUME   457091.972 3768432.966 309.89
   LOCATION L0010937     VOLUME   457100.562 3768432.924 309.89
   LOCATION L0010938     VOLUME   457109.152 3768432.883 309.88
   LOCATION L0010939     VOLUME   457117.742 3768432.841 309.88
   LOCATION L0010940     VOLUME   457126.332 3768432.800 309.88
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   LOCATION L0010942     VOLUME   457143.512 3768432.717 309.88
   LOCATION L0010943     VOLUME   457152.102 3768432.675 309.88
   LOCATION L0010944     VOLUME   457160.692 3768432.634 309.88
   LOCATION L0010945     VOLUME   457169.281 3768432.592 309.87
   LOCATION L0010946     VOLUME   457177.871 3768432.551 309.87
   LOCATION L0010947     VOLUME   457186.461 3768432.509 309.87
   LOCATION L0010948     VOLUME   457195.051 3768432.468 309.87
   LOCATION L0010949     VOLUME   457203.641 3768432.426 309.87
   LOCATION L0010950     VOLUME   457212.231 3768432.385 309.87
   LOCATION L0010951     VOLUME   457220.821 3768432.343 309.87
   LOCATION L0010952     VOLUME   457229.411 3768432.302 309.87
   LOCATION L0010953     VOLUME   457238.001 3768432.260 309.86
   LOCATION L0010954     VOLUME   457246.591 3768432.219 309.89
   LOCATION L0010955     VOLUME   457255.180 3768432.177 309.93
   LOCATION L0010956     VOLUME   457263.770 3768432.136 309.97
   LOCATION L0010957     VOLUME   457272.360 3768432.094 310.00
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LOCATION L0010958     VOLUME   457280.950 3768432.053 310.00
LOCATION L0010959     VOLUME   457289.540 3768432.011 310.00
LOCATION L0010960     VOLUME   457298.130 3768431.970 310.00
LOCATION L0010961     VOLUME   457306.720 3768431.928 310.00
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LOCATION L0010968     VOLUME   457366.849 3768431.638 310.20
LOCATION L0010969     VOLUME   457375.439 3768431.596 310.45
LOCATION L0010970     VOLUME   457384.029 3768431.555 310.69
LOCATION L0010971     VOLUME   457392.619 3768431.513 310.86
LOCATION L0010972     VOLUME   457401.209 3768431.472 310.90
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LOCATION L0010981     VOLUME   457478.518 3768431.098 311.00
LOCATION L0010982     VOLUME   457487.108 3768431.057 311.21
LOCATION L0010983     VOLUME   457495.698 3768431.015 311.44
LOCATION L0010984     VOLUME   457504.288 3768430.974 311.68
LOCATION L0010985     VOLUME   457512.877 3768430.932 311.84
LOCATION L0010986     VOLUME   457521.467 3768430.891 311.89
LOCATION L0010987     VOLUME   457530.057 3768430.849 311.94
LOCATION L0010988     VOLUME   457538.647 3768430.808 311.99
LOCATION L0010989     VOLUME   457547.237 3768430.766 312.00
LOCATION L0010990     VOLUME   457555.827 3768430.725 312.00
LOCATION L0010991     VOLUME   457564.417 3768430.683 312.00
LOCATION L0010992     VOLUME   457573.007 3768430.642 312.09
LOCATION L0010993     VOLUME   457581.597 3768430.600 312.32
LOCATION L0010994     VOLUME   457590.187 3768430.559 312.55
LOCATION L0010995     VOLUME   457598.776 3768430.517 312.78
LOCATION L0010996     VOLUME   457607.366 3768430.476 312.80
LOCATION L0010997     VOLUME   457615.956 3768430.434 312.80
LOCATION L0010998     VOLUME   457624.546 3768430.393 312.80
LOCATION L0010999     VOLUME   457633.136 3768430.351 312.82
LOCATION L0011000     VOLUME   457641.726 3768430.310 312.88
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LOCATION L0011002     VOLUME   457658.906 3768430.227 313.00
LOCATION L0011003     VOLUME   457667.496 3768430.185 313.00
LOCATION L0011004     VOLUME   457676.086 3768430.144 313.00
LOCATION L0011005     VOLUME   457684.675 3768430.102 313.00
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LOCATION L0011006     VOLUME   457693.265 3768430.061 313.10
LOCATION L0011007     VOLUME   457701.855 3768430.019 313.32
LOCATION L0011008     VOLUME   457710.445 3768429.978 313.55
LOCATION L0011009     VOLUME   457719.035 3768429.937 313.77
LOCATION L0011010     VOLUME   457727.625 3768429.895 313.84
LOCATION L0011011     VOLUME   457736.215 3768429.854 313.90
LOCATION L0011012     VOLUME   457744.805 3768429.812 313.97
LOCATION L0011013     VOLUME   457753.395 3768429.771 314.00
LOCATION L0011014     VOLUME   457761.985 3768429.729 314.00
LOCATION L0011015     VOLUME   457770.574 3768429.688 314.00
LOCATION L0011016     VOLUME   457779.164 3768429.646 314.00
LOCATION L0011017     VOLUME   457787.754 3768429.605 314.21
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LOCATION L0011019     VOLUME   457804.934 3768429.522 314.65
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LOCATION L0011021     VOLUME   457822.114 3768429.439 314.77
LOCATION L0011022     VOLUME   457830.704 3768429.397 314.77
LOCATION L0011023     VOLUME   457839.294 3768429.356 314.77
LOCATION L0011024     VOLUME   457847.884 3768429.314 314.83
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LOCATION L0011027     VOLUME   457873.653 3768429.190 315.00
LOCATION L0011028     VOLUME   457882.243 3768429.148 315.00
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LOCATION L0011030     VOLUME   457899.423 3768429.065 315.00
LOCATION L0011031     VOLUME   457908.013 3768429.024 315.00
LOCATION L0011032     VOLUME   457916.603 3768428.982 315.00
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LOCATION L0011034     VOLUME   457933.783 3768428.899 315.11
LOCATION L0011035     VOLUME   457942.372 3768428.858 315.32
LOCATION L0011036     VOLUME   457950.962 3768428.816 315.53
LOCATION L0011037     VOLUME   457959.552 3768428.775 315.75
LOCATION L0011038     VOLUME   457968.142 3768428.733 315.82
LOCATION L0011039     VOLUME   457976.732 3768428.692 315.89
LOCATION L0011040     VOLUME   457985.322 3768428.650 315.96
LOCATION L0011041     VOLUME   457993.912 3768428.609 316.00
LOCATION L0011042     VOLUME   458002.502 3768428.567 316.00
LOCATION L0011043     VOLUME   458011.092 3768428.526 316.00
LOCATION L0011044     VOLUME   458019.682 3768428.484 316.00
LOCATION L0011045     VOLUME   458028.271 3768428.443 316.00
LOCATION L0011046     VOLUME   458036.861 3768428.401 316.00
LOCATION L0011047     VOLUME   458045.451 3768428.360 316.00
LOCATION L0011048     VOLUME   458054.041 3768428.318 316.00
LOCATION L0011049     VOLUME   458062.631 3768428.277 316.00
LOCATION L0011050     VOLUME   458071.221 3768428.235 316.00
LOCATION L0011051     VOLUME   458079.811 3768428.194 316.01
LOCATION L0011052     VOLUME   458088.401 3768428.152 316.21
LOCATION L0011053     VOLUME   458096.991 3768428.111 316.42
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** END OF LINE VOLUME SOURCE ID = SLINE14
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** LINE SOURCE REPRESENTED BY ADJACENT VOLUME SOURCES
** LINE VOLUME SOURCE ID = SLINE15
** DESCRSRC OFF-SITE TRAVEL 6% SLOVER AV.
** PREFIX
** LENGTH OF SIDE = 8.59
** CONFIGURATION = ADJACENT
** EMISSION RATE = 3.339E-06
** VERTICAL DIMENSION = 6.99
** SZINIT = 3.25
** NODES = 2
** 456928.759, 3769242.836, 318.66, 3.49, 4.00
** 458121.206, 3769237.076, 325.75, 3.49, 4.00
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   LOCATION L0011057     VOLUME   456950.233 3769242.732 318.88
   LOCATION L0011058     VOLUME   456958.823 3769242.691 318.88
   LOCATION L0011059     VOLUME   456967.413 3769242.649 318.88
   LOCATION L0011060     VOLUME   456976.003 3769242.608 318.88
   LOCATION L0011061     VOLUME   456984.593 3769242.566 318.87
   LOCATION L0011062     VOLUME   456993.183 3769242.525 318.87
   LOCATION L0011063     VOLUME   457001.773 3769242.483 318.87
   LOCATION L0011064     VOLUME   457010.363 3769242.442 318.87
   LOCATION L0011065     VOLUME   457018.952 3769242.400 318.87
   LOCATION L0011066     VOLUME   457027.542 3769242.359 318.87
   LOCATION L0011067     VOLUME   457036.132 3769242.317 318.90
   LOCATION L0011068     VOLUME   457044.722 3769242.276 318.93
   LOCATION L0011069     VOLUME   457053.312 3769242.234 318.97
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   LOCATION L0011071     VOLUME   457070.492 3769242.151 319.00
   LOCATION L0011072     VOLUME   457079.082 3769242.110 319.00
   LOCATION L0011073     VOLUME   457087.672 3769242.068 319.00
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   LOCATION L0011076     VOLUME   457113.441 3769241.944 319.00
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   LOCATION L0011078     VOLUME   457130.621 3769241.861 319.00
   LOCATION L0011079     VOLUME   457139.211 3769241.820 319.00
   LOCATION L0011080     VOLUME   457147.801 3769241.778 319.00
   LOCATION L0011081     VOLUME   457156.391 3769241.737 319.19
   LOCATION L0011082     VOLUME   457164.981 3769241.695 319.43
   LOCATION L0011083     VOLUME   457173.571 3769241.654 319.67
   LOCATION L0011084     VOLUME   457182.161 3769241.612 319.84
   LOCATION L0011085     VOLUME   457190.750 3769241.571 319.84
   LOCATION L0011086     VOLUME   457199.340 3769241.529 319.84
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LOCATION L0011088     VOLUME   457216.520 3769241.446 319.84
LOCATION L0011089     VOLUME   457225.110 3769241.405 319.84
LOCATION L0011090     VOLUME   457233.700 3769241.363 319.83
LOCATION L0011091     VOLUME   457242.290 3769241.322 319.85
LOCATION L0011092     VOLUME   457250.880 3769241.280 319.89
LOCATION L0011093     VOLUME   457259.470 3769241.239 319.94
LOCATION L0011094     VOLUME   457268.060 3769241.197 319.99
LOCATION L0011095     VOLUME   457276.649 3769241.156 320.00
LOCATION L0011096     VOLUME   457285.239 3769241.114 320.00
LOCATION L0011097     VOLUME   457293.829 3769241.073 320.00
LOCATION L0011098     VOLUME   457302.419 3769241.031 320.00
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LOCATION L0011100     VOLUME   457319.599 3769240.948 320.00
LOCATION L0011101     VOLUME   457328.189 3769240.907 320.00
LOCATION L0011102     VOLUME   457336.779 3769240.865 320.20
LOCATION L0011103     VOLUME   457345.369 3769240.824 320.43
LOCATION L0011104     VOLUME   457353.959 3769240.782 320.66
LOCATION L0011105     VOLUME   457362.548 3769240.741 320.81
LOCATION L0011106     VOLUME   457371.138 3769240.699 320.81
LOCATION L0011107     VOLUME   457379.728 3769240.658 320.81
LOCATION L0011108     VOLUME   457388.318 3769240.616 320.81
LOCATION L0011109     VOLUME   457396.908 3769240.575 320.85
LOCATION L0011110     VOLUME   457405.498 3769240.533 320.91
LOCATION L0011111     VOLUME   457414.088 3769240.492 320.96
LOCATION L0011112     VOLUME   457422.678 3769240.450 321.00
LOCATION L0011113     VOLUME   457431.268 3769240.409 321.00
LOCATION L0011114     VOLUME   457439.858 3769240.367 321.00
LOCATION L0011115     VOLUME   457448.447 3769240.326 321.00
LOCATION L0011116     VOLUME   457457.037 3769240.284 321.00
LOCATION L0011117     VOLUME   457465.627 3769240.243 321.00
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LOCATION L0011119     VOLUME   457482.807 3769240.160 321.09
LOCATION L0011120     VOLUME   457491.397 3769240.118 321.31
LOCATION L0011121     VOLUME   457499.987 3769240.077 321.54
LOCATION L0011122     VOLUME   457508.577 3769240.035 321.76
LOCATION L0011123     VOLUME   457517.167 3769239.994 321.79
LOCATION L0011124     VOLUME   457525.757 3769239.952 321.79
LOCATION L0011125     VOLUME   457534.346 3769239.911 321.79
LOCATION L0011126     VOLUME   457542.936 3769239.869 321.81
LOCATION L0011127     VOLUME   457551.526 3769239.828 321.87
LOCATION L0011128     VOLUME   457560.116 3769239.786 321.93
LOCATION L0011129     VOLUME   457568.706 3769239.745 321.99
LOCATION L0011130     VOLUME   457577.296 3769239.703 322.00
LOCATION L0011131     VOLUME   457585.886 3769239.662 322.00
LOCATION L0011132     VOLUME   457594.476 3769239.620 322.00
LOCATION L0011133     VOLUME   457603.066 3769239.579 322.09
LOCATION L0011134     VOLUME   457611.656 3769239.537 322.31
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LOCATION L0011136     VOLUME   457628.835 3769239.454 322.75
LOCATION L0011137     VOLUME   457637.425 3769239.413 322.77
LOCATION L0011138     VOLUME   457646.015 3769239.371 322.77
LOCATION L0011139     VOLUME   457654.605 3769239.330 322.77
LOCATION L0011140     VOLUME   457663.195 3769239.288 322.76
LOCATION L0011141     VOLUME   457671.785 3769239.247 322.76
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LOCATION L0011143     VOLUME   457688.965 3769239.164 322.76
LOCATION L0011144     VOLUME   457697.555 3769239.122 322.82
LOCATION L0011145     VOLUME   457706.144 3769239.081 322.89
LOCATION L0011146     VOLUME   457714.734 3769239.039 322.96
LOCATION L0011147     VOLUME   457723.324 3769238.998 323.00
LOCATION L0011148     VOLUME   457731.914 3769238.956 323.00
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LOCATION L0011152     VOLUME   457766.274 3769238.790 323.00
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LOCATION L0011154     VOLUME   457783.454 3769238.707 323.10
LOCATION L0011155     VOLUME   457792.043 3769238.666 323.31
LOCATION L0011156     VOLUME   457800.633 3769238.624 323.52
LOCATION L0011157     VOLUME   457809.223 3769238.583 323.73
LOCATION L0011158     VOLUME   457817.813 3769238.541 323.81
LOCATION L0011159     VOLUME   457826.403 3769238.500 323.89
LOCATION L0011160     VOLUME   457834.993 3769238.458 323.96
LOCATION L0011161     VOLUME   457843.583 3769238.417 324.00
LOCATION L0011162     VOLUME   457852.173 3769238.375 324.00
LOCATION L0011163     VOLUME   457860.763 3769238.334 324.00
LOCATION L0011164     VOLUME   457869.353 3769238.292 324.00
LOCATION L0011165     VOLUME   457877.942 3769238.251 324.00
LOCATION L0011166     VOLUME   457886.532 3769238.209 324.00
LOCATION L0011167     VOLUME   457895.122 3769238.168 324.00
LOCATION L0011168     VOLUME   457903.712 3769238.126 324.10
LOCATION L0011169     VOLUME   457912.302 3769238.085 324.31
LOCATION L0011170     VOLUME   457920.892 3769238.043 324.51
LOCATION L0011171     VOLUME   457929.482 3769238.002 324.72
LOCATION L0011172     VOLUME   457938.072 3769237.960 324.72
LOCATION L0011173     VOLUME   457946.662 3769237.919 324.72
LOCATION L0011174     VOLUME   457955.252 3769237.877 324.72
LOCATION L0011175     VOLUME   457963.841 3769237.836 324.72
LOCATION L0011176     VOLUME   457972.431 3769237.794 324.71
LOCATION L0011177     VOLUME   457981.021 3769237.753 324.71
LOCATION L0011178     VOLUME   457989.611 3769237.711 324.71
LOCATION L0011179     VOLUME   457998.201 3769237.670 324.79
LOCATION L0011180     VOLUME   458006.791 3769237.628 324.88
LOCATION L0011181     VOLUME   458015.381 3769237.587 324.96
LOCATION L0011182     VOLUME   458023.971 3769237.545 325.00
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   LOCATION L0011185     VOLUME   458049.740 3769237.421 325.00
   LOCATION L0011186     VOLUME   458058.330 3769237.379 325.00
   LOCATION L0011187     VOLUME   458066.920 3769237.338 325.00
   LOCATION L0011188     VOLUME   458075.510 3769237.296 325.00
   LOCATION L0011189     VOLUME   458084.100 3769237.255 325.10
   LOCATION L0011190     VOLUME   458092.690 3769237.213 325.30
   LOCATION L0011191     VOLUME   458101.280 3769237.172 325.50
   LOCATION L0011192     VOLUME   458109.870 3769237.130 325.70
   LOCATION L0011193     VOLUME   458118.460 3769237.089 325.78
** END OF LINE VOLUME SOURCE ID = SLINE15
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** LINE SOURCE REPRESENTED BY ADJACENT VOLUME SOURCES
** LINE VOLUME SOURCE ID = SLINE16
** DESCRSRC OFF-SITE TRAVEL 18% TO I-10/SIERRA AV.
** PREFIX
** LENGTH OF SIDE = 8.59
** CONFIGURATION = ADJACENT
** EMISSION RATE = 0.00001094
** VERTICAL DIMENSION = 6.99
** SZINIT = 3.25
** NODES = 3
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** 459798.860, 3769745.313, 341.00, 3.49, 4.00
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   LOCATION L0011196     VOLUME   459809.909 3768463.898 324.00
   LOCATION L0011197     VOLUME   459809.889 3768472.488 324.00
   LOCATION L0011198     VOLUME   459809.868 3768481.078 324.00
   LOCATION L0011199     VOLUME   459809.847 3768489.668 324.00
   LOCATION L0011200     VOLUME   459809.827 3768498.258 324.06
   LOCATION L0011201     VOLUME   459809.806 3768506.848 324.35
   LOCATION L0011202     VOLUME   459809.785 3768515.438 324.64
   LOCATION L0011203     VOLUME   459809.765 3768524.028 324.92
   LOCATION L0011204     VOLUME   459809.744 3768532.618 325.00
   LOCATION L0011205     VOLUME   459809.723 3768541.208 325.00
   LOCATION L0011206     VOLUME   459809.703 3768549.798 325.00
   LOCATION L0011207     VOLUME   459809.682 3768558.388 325.00
   LOCATION L0011208     VOLUME   459809.661 3768566.978 325.00
   LOCATION L0011209     VOLUME   459809.641 3768575.568 325.00
   LOCATION L0011210     VOLUME   459809.620 3768584.158 325.00
   LOCATION L0011211     VOLUME   459809.599 3768592.748 325.00
   LOCATION L0011212     VOLUME   459809.579 3768601.338 325.00
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   LOCATION L0011214     VOLUME   459809.538 3768618.518 325.07
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LOCATION L0011215     VOLUME   459809.517 3768627.108 325.36
LOCATION L0011216     VOLUME   459809.496 3768635.698 325.65
LOCATION L0011217     VOLUME   459809.476 3768644.288 325.93
LOCATION L0011218     VOLUME   459809.455 3768652.878 326.00
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LOCATION L0011224     VOLUME   459809.331 3768704.418 326.00
LOCATION L0011225     VOLUME   459809.310 3768713.008 326.00
LOCATION L0011226     VOLUME   459809.290 3768721.598 326.00
LOCATION L0011227     VOLUME   459809.269 3768730.188 326.00
LOCATION L0011228     VOLUME   459809.248 3768738.778 326.08
LOCATION L0011229     VOLUME   459809.228 3768747.368 326.37
LOCATION L0011230     VOLUME   459809.207 3768755.958 326.65
LOCATION L0011231     VOLUME   459809.186 3768764.548 326.94
LOCATION L0011232     VOLUME   459809.166 3768773.138 327.00
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LOCATION L0011239     VOLUME   459809.021 3768833.267 327.00
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LOCATION L0011241     VOLUME   459808.980 3768850.447 327.00
LOCATION L0011242     VOLUME   459808.959 3768859.037 327.09
LOCATION L0011243     VOLUME   459808.939 3768867.627 327.38
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LOCATION L0011245     VOLUME   459808.897 3768884.807 327.95
LOCATION L0011246     VOLUME   459808.877 3768893.397 328.00
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LOCATION L0011249     VOLUME   459808.815 3768919.167 328.00
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LOCATION L0011258     VOLUME   459808.629 3768996.477 329.00
LOCATION L0011259     VOLUME   459808.608 3769005.067 329.00
LOCATION L0011260     VOLUME   459808.588 3769013.657 329.00
LOCATION L0011261     VOLUME   459808.567 3769022.247 329.00
LOCATION L0011262     VOLUME   459808.546 3769030.837 329.00
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LOCATION	L0011263	VOLUME	459808.526	3769039.427 329.10
LOCATION	L0011264	VOLUME	459808.505	3769048.017 329.39
LOCATION	L0011265	VOLUME	459808.484	3769056.607 329.68
LOCATION	L0011266	VOLUME	459808.464	3769065.197 329.96
LOCATION	L0011267	VOLUME	459808.443	3769073.787 330.00
LOCATION	L0011268	VOLUME	459808.422	3769082.377 330.00
LOCATION	L0011269	VOLUME	459808.402	3769090.967 330.00
LOCATION	L0011270	VOLUME	459808.381	3769099.557 330.07
LOCATION	L0011271	VOLUME	459808.361	3769108.147 330.25
LOCATION	L0011272	VOLUME	459808.340	3769116.737 330.42
LOCATION	L0011273	VOLUME	459808.319	3769125.327 330.60
LOCATION	L0011274	VOLUME	459808.299	3769133.916 330.72
LOCATION	L0011275	VOLUME	459808.278	3769142.506 330.83
LOCATION	L0011276	VOLUME	459808.257	3769151.096 330.93
LOCATION	L0011277	VOLUME	459808.237	3769159.686 331.00
LOCATION	L0011278	VOLUME	459808.216	3769168.276 331.00
LOCATION	L0011279	VOLUME	459808.195	3769176.866 331.00
LOCATION	L0011280	VOLUME	459808.175	3769185.456 331.00
LOCATION	L0011281	VOLUME	459808.154	3769194.046 331.26
LOCATION	L0011282	VOLUME	459808.133	3769202.636 331.54
LOCATION	L0011283	VOLUME	459808.113	3769211.226 331.83
LOCATION	L0011284	VOLUME	459808.092	3769219.816 332.07
LOCATION	L0011285	VOLUME	459808.071	3769228.406 332.25
LOCATION	L0011286	VOLUME	459808.051	3769236.996 332.42
LOCATION	L0011287	VOLUME	459807.961	3769245.585 332.60
LOCATION	L0011288	VOLUME	459807.805	3769254.174 332.71
LOCATION	L0011289	VOLUME	459807.648	3769262.763 332.82
LOCATION	L0011290	VOLUME	459807.492	3769271.351 332.93
LOCATION	L0011291	VOLUME	459807.336	3769279.940 333.12
LOCATION	L0011292	VOLUME	459807.179	3769288.528 333.41
LOCATION	L0011293	VOLUME	459807.023	3769297.117 333.69
LOCATION	L0011294	VOLUME	459806.866	3769305.705 333.98
LOCATION	L0011295	VOLUME	459806.710	3769314.294 334.26
LOCATION	L0011296	VOLUME	459806.554	3769322.883 334.55
LOCATION	L0011297	VOLUME	459806.397	3769331.471 334.84
LOCATION	L0011298	VOLUME	459806.241	3769340.060 335.00
LOCATION	L0011299	VOLUME	459806.084	3769348.648 335.00
LOCATION	L0011300	VOLUME	459805.928	3769357.237 335.00
LOCATION	L0011301	VOLUME	459805.771	3769365.826 335.00
LOCATION	L0011302	VOLUME	459805.615	3769374.414 335.00
LOCATION	L0011303	VOLUME	459805.459	3769383.003 335.00
LOCATION	L0011304	VOLUME	459805.302	3769391.591 335.00
LOCATION	L0011305	VOLUME	459805.146	3769400.180 335.00
LOCATION	L0011306	VOLUME	459804.989	3769408.768 335.00
LOCATION	L0011307	VOLUME	459804.833	3769417.357 335.00
LOCATION	L0011308	VOLUME	459804.677	3769425.946 335.00
LOCATION	L0011309	VOLUME	459804.520	3769434.534 335.00
LOCATION	L0011310	VOLUME	459804.364	3769443.123 335.00

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   LOCATION L0011311     VOLUME   459804.207 3769451.711 335.00
   LOCATION L0011312     VOLUME   459804.051 3769460.300 335.20
   LOCATION L0011313     VOLUME   459803.895 3769468.888 335.64
   LOCATION L0011314     VOLUME   459803.738 3769477.477 336.08
   LOCATION L0011315     VOLUME   459803.582 3769486.066 336.52
   LOCATION L0011316     VOLUME   459803.425 3769494.654 337.63
   LOCATION L0011317     VOLUME   459803.269 3769503.243 338.75
   LOCATION L0011318     VOLUME   459803.112 3769511.831 339.86
   LOCATION L0011319     VOLUME   459802.956 3769520.420 340.52
   LOCATION L0011320     VOLUME   459802.800 3769529.008 340.68
   LOCATION L0011321     VOLUME   459802.643 3769537.597 340.84
   LOCATION L0011322     VOLUME   459802.487 3769546.186 341.00
   LOCATION L0011323     VOLUME   459802.330 3769554.774 341.00
   LOCATION L0011324     VOLUME   459802.174 3769563.363 341.00
   LOCATION L0011325     VOLUME   459802.018 3769571.951 341.00
   LOCATION L0011326     VOLUME   459801.861 3769580.540 341.00
   LOCATION L0011327     VOLUME   459801.705 3769589.128 341.00
   LOCATION L0011328     VOLUME   459801.548 3769597.717 341.00
   LOCATION L0011329     VOLUME   459801.392 3769606.306 341.00
   LOCATION L0011330     VOLUME   459801.236 3769614.894 341.00
   LOCATION L0011331     VOLUME   459801.079 3769623.483 341.00
   LOCATION L0011332     VOLUME   459800.923 3769632.071 341.00
   LOCATION L0011333     VOLUME   459800.766 3769640.660 341.00
   LOCATION L0011334     VOLUME   459800.610 3769649.249 341.00
   LOCATION L0011335     VOLUME   459800.453 3769657.837 341.00
   LOCATION L0011336     VOLUME   459800.297 3769666.426 341.00
   LOCATION L0011337     VOLUME   459800.141 3769675.014 341.00
   LOCATION L0011338     VOLUME   459799.984 3769683.603 341.00
   LOCATION L0011339     VOLUME   459799.828 3769692.191 341.00
   LOCATION L0011340     VOLUME   459799.671 3769700.780 341.00
   LOCATION L0011341     VOLUME   459799.515 3769709.369 341.00
   LOCATION L0011342     VOLUME   459799.359 3769717.957 341.00
   LOCATION L0011343     VOLUME   459799.202 3769726.546 341.00
   LOCATION L0011344     VOLUME   459799.046 3769735.134 341.00
   LOCATION L0011345     VOLUME   459798.889 3769743.723 341.00
** END OF LINE VOLUME SOURCE ID = SLINE16
** ----------------------------------------------------------------------
** LINE SOURCE REPRESENTED BY ADJACENT VOLUME SOURCES
** LINE VOLUME SOURCE ID = SLINE17
** DESCRSRC OFF-SITE TRAVEL 60% ON SIERRA AV. TO CITRUS
** PREFIX
** LENGTH OF SIDE = 20.00
** CONFIGURATION = ADJACENT
** EMISSION RATE = 0.00003607
** VERTICAL DIMENSION = 6.99
** SZINIT = 3.25
** NODES = 4
** 459395.154, 3767599.696, 320.02, 3.49, 9.30
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** 458625.534, 3767591.807, 311.08, 3.49, 9.30
** 458249.163, 3767593.033, 309.00, 3.49, 9.30
** 458106.951, 3767588.129, 308.00, 3.49, 9.30
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   LOCATION L0011346     VOLUME   459385.154 3767599.594 319.84
   LOCATION L0011347     VOLUME   459365.155 3767599.389 319.66
   LOCATION L0011348     VOLUME   459345.156 3767599.184 319.07
   LOCATION L0011349     VOLUME   459325.158 3767598.979 318.91
   LOCATION L0011350     VOLUME   459305.159 3767598.774 318.92
   LOCATION L0011351     VOLUME   459285.160 3767598.569 318.93
   LOCATION L0011352     VOLUME   459265.161 3767598.364 318.45
   LOCATION L0011353     VOLUME   459245.162 3767598.159 317.80
   LOCATION L0011354     VOLUME   459225.163 3767597.954 317.18
   LOCATION L0011355     VOLUME   459205.164 3767597.749 317.00
   LOCATION L0011356     VOLUME   459185.165 3767597.544 316.99
   LOCATION L0011357     VOLUME   459165.166 3767597.339 316.97
   LOCATION L0011358     VOLUME   459145.167 3767597.134 316.51
   LOCATION L0011359     VOLUME   459125.168 3767596.929 316.00
   LOCATION L0011360     VOLUME   459105.169 3767596.724 316.00
   LOCATION L0011361     VOLUME   459085.170 3767596.519 316.00
   LOCATION L0011362     VOLUME   459065.171 3767596.314 315.85
   LOCATION L0011363     VOLUME   459045.172 3767596.109 315.19
   LOCATION L0011364     VOLUME   459025.173 3767595.904 315.01
   LOCATION L0011365     VOLUME   459005.174 3767595.699 315.00
   LOCATION L0011366     VOLUME   458985.175 3767595.494 315.00
   LOCATION L0011367     VOLUME   458965.176 3767595.289 314.52
   LOCATION L0011368     VOLUME   458945.178 3767595.084 314.00
   LOCATION L0011369     VOLUME   458925.179 3767594.879 314.00
   LOCATION L0011370     VOLUME   458905.180 3767594.674 313.52
   LOCATION L0011371     VOLUME   458885.181 3767594.469 313.00
   LOCATION L0011372     VOLUME   458865.182 3767594.264 313.00
   LOCATION L0011373     VOLUME   458845.183 3767594.059 313.00
   LOCATION L0011374     VOLUME   458825.184 3767593.854 312.85
   LOCATION L0011375     VOLUME   458805.185 3767593.649 312.19
   LOCATION L0011376     VOLUME   458785.186 3767593.444 312.00
   LOCATION L0011377     VOLUME   458765.187 3767593.239 312.00
   LOCATION L0011378     VOLUME   458745.188 3767593.034 312.00
   LOCATION L0011379     VOLUME   458725.189 3767592.829 312.00
   LOCATION L0011380     VOLUME   458705.190 3767592.624 312.00
   LOCATION L0011381     VOLUME   458685.191 3767592.419 312.00
   LOCATION L0011382     VOLUME   458665.192 3767592.214 312.00
   LOCATION L0011383     VOLUME   458645.193 3767592.009 311.85
   LOCATION L0011384     VOLUME   458625.194 3767591.808 311.19
   LOCATION L0011385     VOLUME   458605.194 3767591.873 311.00
   LOCATION L0011386     VOLUME   458585.195 3767591.938 311.00
   LOCATION L0011387     VOLUME   458565.195 3767592.004 311.00
   LOCATION L0011388     VOLUME   458545.195 3767592.069 311.00
   LOCATION L0011389     VOLUME   458525.195 3767592.134 311.00
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   LOCATION L0011390     VOLUME   458505.195 3767592.199 311.00
   LOCATION L0011391     VOLUME   458485.195 3767592.264 310.52
   LOCATION L0011392     VOLUME   458465.195 3767592.329 310.00
   LOCATION L0011393     VOLUME   458445.195 3767592.394 310.00
   LOCATION L0011394     VOLUME   458425.195 3767592.460 310.00
   LOCATION L0011395     VOLUME   458405.195 3767592.525 310.00
   LOCATION L0011396     VOLUME   458385.196 3767592.590 310.00
   LOCATION L0011397     VOLUME   458365.196 3767592.655 310.00
   LOCATION L0011398     VOLUME   458345.196 3767592.720 310.00
   LOCATION L0011399     VOLUME   458325.196 3767592.785 310.00
   LOCATION L0011400     VOLUME   458305.196 3767592.850 309.94
   LOCATION L0011401     VOLUME   458285.196 3767592.916 309.76
   LOCATION L0011402     VOLUME   458265.196 3767592.981 309.17
   LOCATION L0011403     VOLUME   458245.199 3767592.896 309.00
   LOCATION L0011404     VOLUME   458225.211 3767592.207 309.00
   LOCATION L0011405     VOLUME   458205.222 3767591.518 309.00
   LOCATION L0011406     VOLUME   458185.234 3767590.829 308.91
   LOCATION L0011407     VOLUME   458165.246 3767590.139 308.68
   LOCATION L0011408     VOLUME   458145.258 3767589.450 308.15
   LOCATION L0011409     VOLUME   458125.270 3767588.761 308.00
** END OF LINE VOLUME SOURCE ID = SLINE17
** ----------------------------------------------------------------
** LINE SOURCE REPRESENTED BY ADJACENT VOLUME SOURCES
** LINE VOLUME SOURCE ID = SLINE18
** DESCRSRC OFF-SITE TRAVEL 33% CITRUS AV. TO SANTA ANA
** PREFIX
** LENGTH OF SIDE = 8.59
** CONFIGURATION = ADJACENT
** EMISSION RATE = 0.00001294
** VERTICAL DIMENSION = 6.99
** SZINIT = 3.25
** NODES = 4
** 458112.872, 3767589.957, 308.00, 3.49, 4.00
** 458114.065, 3767737.283, 309.85, 3.49, 4.00
** 458117.047, 3767904.292, 311.00, 3.49, 4.00
** 458119.225, 3768430.065, 316.82, 3.49, 4.00
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   LOCATION L0011410     VOLUME   458112.907 3767594.252 308.00
   LOCATION L0011411     VOLUME   458112.976 3767602.842 308.02
   LOCATION L0011412     VOLUME   458113.046 3767611.431 308.06
   LOCATION L0011413     VOLUME   458113.116 3767620.021 308.09
   LOCATION L0011414     VOLUME   458113.185 3767628.611 308.19
   LOCATION L0011415     VOLUME   458113.255 3767637.201 308.44
   LOCATION L0011416     VOLUME   458113.324 3767645.790 308.69
   LOCATION L0011417     VOLUME   458113.394 3767654.380 308.94
   LOCATION L0011418     VOLUME   458113.463 3767662.970 309.00
   LOCATION L0011419     VOLUME   458113.533 3767671.559 309.00
   LOCATION L0011420     VOLUME   458113.602 3767680.149 309.00
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LOCATION L0011421     VOLUME   458113.672 3767688.739 309.01
LOCATION L0011422     VOLUME   458113.742 3767697.329 309.05
LOCATION L0011423     VOLUME   458113.811 3767705.918 309.09
LOCATION L0011424     VOLUME   458113.881 3767714.508 309.13
LOCATION L0011425     VOLUME   458113.950 3767723.098 309.34
LOCATION L0011426     VOLUME   458114.020 3767731.687 309.58
LOCATION L0011427     VOLUME   458114.119 3767740.277 309.83
LOCATION L0011428     VOLUME   458114.272 3767748.865 310.00
LOCATION L0011429     VOLUME   458114.425 3767757.454 310.00
LOCATION L0011430     VOLUME   458114.579 3767766.043 310.00
LOCATION L0011431     VOLUME   458114.732 3767774.631 310.00
LOCATION L0011432     VOLUME   458114.885 3767783.220 310.04
LOCATION L0011433     VOLUME   458115.039 3767791.809 310.09
LOCATION L0011434     VOLUME   458115.192 3767800.397 310.15
LOCATION L0011435     VOLUME   458115.345 3767808.986 310.26
LOCATION L0011436     VOLUME   458115.499 3767817.574 310.50
LOCATION L0011437     VOLUME   458115.652 3767826.163 310.73
LOCATION L0011438     VOLUME   458115.806 3767834.752 310.96
LOCATION L0011439     VOLUME   458115.959 3767843.340 311.00
LOCATION L0011440     VOLUME   458116.112 3767851.929 311.00
LOCATION L0011441     VOLUME   458116.266 3767860.518 311.00
LOCATION L0011442     VOLUME   458116.419 3767869.106 311.00
LOCATION L0011443     VOLUME   458116.572 3767877.695 311.00
LOCATION L0011444     VOLUME   458116.726 3767886.283 311.00
LOCATION L0011445     VOLUME   458116.879 3767894.872 311.00
LOCATION L0011446     VOLUME   458117.033 3767903.461 311.24
LOCATION L0011447     VOLUME   458117.080 3767912.051 311.52
LOCATION L0011448     VOLUME   458117.115 3767920.640 311.81
LOCATION L0011449     VOLUME   458117.151 3767929.230 312.00
LOCATION L0011450     VOLUME   458117.186 3767937.820 312.00
LOCATION L0011451     VOLUME   458117.222 3767946.410 312.00
LOCATION L0011452     VOLUME   458117.257 3767955.000 312.00
LOCATION L0011453     VOLUME   458117.293 3767963.590 312.00
LOCATION L0011454     VOLUME   458117.329 3767972.180 312.00
LOCATION L0011455     VOLUME   458117.364 3767980.770 312.00
LOCATION L0011456     VOLUME   458117.400 3767989.360 312.00
LOCATION L0011457     VOLUME   458117.435 3767997.950 312.00
LOCATION L0011458     VOLUME   458117.471 3768006.540 312.00
LOCATION L0011459     VOLUME   458117.506 3768015.130 312.00
LOCATION L0011460     VOLUME   458117.542 3768023.720 312.25
LOCATION L0011461     VOLUME   458117.578 3768032.310 312.53
LOCATION L0011462     VOLUME   458117.613 3768040.899 312.82
LOCATION L0011463     VOLUME   458117.649 3768049.489 313.00
LOCATION L0011464     VOLUME   458117.684 3768058.079 313.00
LOCATION L0011465     VOLUME   458117.720 3768066.669 313.00
LOCATION L0011466     VOLUME   458117.755 3768075.259 313.00
LOCATION L0011467     VOLUME   458117.791 3768083.849 313.00
LOCATION L0011468     VOLUME   458117.827 3768092.439 313.00
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   LOCATION L0011469     VOLUME   458117.862 3768101.029 313.00
   LOCATION L0011470     VOLUME   458117.898 3768109.619 313.03
   LOCATION L0011471     VOLUME   458117.933 3768118.209 313.11
   LOCATION L0011472     VOLUME   458117.969 3768126.799 313.19
   LOCATION L0011473     VOLUME   458118.005 3768135.389 313.27
   LOCATION L0011474     VOLUME   458118.040 3768143.979 313.46
   LOCATION L0011475     VOLUME   458118.076 3768152.568 313.67
   LOCATION L0011476     VOLUME   458118.111 3768161.158 313.88
   LOCATION L0011477     VOLUME   458118.147 3768169.748 314.00
   LOCATION L0011478     VOLUME   458118.182 3768178.338 314.00
   LOCATION L0011479     VOLUME   458118.218 3768186.928 314.00
   LOCATION L0011480     VOLUME   458118.254 3768195.518 314.00
   LOCATION L0011481     VOLUME   458118.289 3768204.108 314.08
   LOCATION L0011482     VOLUME   458118.325 3768212.698 314.16
   LOCATION L0011483     VOLUME   458118.360 3768221.288 314.24
   LOCATION L0011484     VOLUME   458118.396 3768229.878 314.38
   LOCATION L0011485     VOLUME   458118.431 3768238.468 314.58
   LOCATION L0011486     VOLUME   458118.467 3768247.058 314.78
   LOCATION L0011487     VOLUME   458118.503 3768255.648 314.98
   LOCATION L0011488     VOLUME   458118.538 3768264.238 315.00
   LOCATION L0011489     VOLUME   458118.574 3768272.827 315.00
   LOCATION L0011490     VOLUME   458118.609 3768281.417 315.00
   LOCATION L0011491     VOLUME   458118.645 3768290.007 315.04
   LOCATION L0011492     VOLUME   458118.681 3768298.597 315.12
   LOCATION L0011493     VOLUME   458118.716 3768307.187 315.21
   LOCATION L0011494     VOLUME   458118.752 3768315.777 315.30
   LOCATION L0011495     VOLUME   458118.787 3768324.367 315.49
   LOCATION L0011496     VOLUME   458118.823 3768332.957 315.69
   LOCATION L0011497     VOLUME   458118.858 3768341.547 315.89
   LOCATION L0011498     VOLUME   458118.894 3768350.137 316.00
   LOCATION L0011499     VOLUME   458118.930 3768358.727 316.00
   LOCATION L0011500     VOLUME   458118.965 3768367.317 316.00
   LOCATION L0011501     VOLUME   458119.001 3768375.907 316.00
   LOCATION L0011502     VOLUME   458119.036 3768384.497 316.09
   LOCATION L0011503     VOLUME   458119.072 3768393.086 316.18
   LOCATION L0011504     VOLUME   458119.107 3768401.676 316.27
   LOCATION L0011505     VOLUME   458119.143 3768410.266 316.41
   LOCATION L0011506     VOLUME   458119.179 3768418.856 316.60
   LOCATION L0011507     VOLUME   458119.214 3768427.446 316.80
** END OF LINE VOLUME SOURCE ID = SLINE18
** ----------------------------------------------------------------------
** LINE SOURCE REPRESENTED BY ADJACENT VOLUME SOURCES
** LINE VOLUME SOURCE ID = SLINE19
** DESCRSRC OFF-SITE TRAVEL 28% CITRUS AV. TO SLOVER
** PREFIX
** LENGTH OF SIDE = 8.59
** CONFIGURATION = ADJACENT
** EMISSION RATE = 0.00001039
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** VERTICAL DIMENSION = 6.99
** SZINIT = 3.25
** NODES = 7
** 458118.460, 3768442.895, 316.88, 3.49, 4.00
** 458120.320, 3768658.687, 319.00, 3.49, 4.00
** 458121.074, 3768873.731, 321.66, 3.49, 4.00
** 458123.263, 3768996.410, 323.00, 3.49, 4.00
** 458126.069, 3769170.412, 325.00, 3.49, 4.00
** 458128.581, 3769208.720, 325.59, 3.49, 4.00
** 458131.789, 3769237.810, 326.00, 3.49, 4.00
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   LOCATION L0011508     VOLUME   458118.497 3768447.190 317.00
   LOCATION L0011509     VOLUME   458118.571 3768455.779 317.00
   LOCATION L0011510     VOLUME   458118.645 3768464.369 317.00
   LOCATION L0011511     VOLUME   458118.719 3768472.959 317.00
   LOCATION L0011512     VOLUME   458118.793 3768481.548 317.00
   LOCATION L0011513     VOLUME   458118.867 3768490.138 317.00
   LOCATION L0011514     VOLUME   458118.941 3768498.728 317.08
   LOCATION L0011515     VOLUME   458119.015 3768507.318 317.37
   LOCATION L0011516     VOLUME   458119.089 3768515.907 317.65
   LOCATION L0011517     VOLUME   458119.163 3768524.497 317.94
   LOCATION L0011518     VOLUME   458119.237 3768533.087 318.00
   LOCATION L0011519     VOLUME   458119.312 3768541.676 318.00
   LOCATION L0011520     VOLUME   458119.386 3768550.266 318.00
   LOCATION L0011521     VOLUME   458119.460 3768558.856 318.00
   LOCATION L0011522     VOLUME   458119.534 3768567.445 318.00
   LOCATION L0011523     VOLUME   458119.608 3768576.035 318.00
   LOCATION L0011524     VOLUME   458119.682 3768584.625 318.00
   LOCATION L0011525     VOLUME   458119.756 3768593.214 318.23
   LOCATION L0011526     VOLUME   458119.830 3768601.804 318.52
   LOCATION L0011527     VOLUME   458119.904 3768610.394 318.80
   LOCATION L0011528     VOLUME   458119.978 3768618.983 319.00
   LOCATION L0011529     VOLUME   458120.052 3768627.573 319.00
   LOCATION L0011530     VOLUME   458120.126 3768636.163 319.00
   LOCATION L0011531     VOLUME   458120.200 3768644.752 319.00
   LOCATION L0011532     VOLUME   458120.274 3768653.342 319.00
   LOCATION L0011533     VOLUME   458120.332 3768661.932 319.00
   LOCATION L0011534     VOLUME   458120.362 3768670.522 319.00
   LOCATION L0011535     VOLUME   458120.392 3768679.112 319.03
   LOCATION L0011536     VOLUME   458120.422 3768687.702 319.14
   LOCATION L0011537     VOLUME   458120.452 3768696.292 319.24
   LOCATION L0011538     VOLUME   458120.482 3768704.882 319.35
   LOCATION L0011539     VOLUME   458120.512 3768713.472 319.52
   LOCATION L0011540     VOLUME   458120.542 3768722.062 319.70
   LOCATION L0011541     VOLUME   458120.573 3768730.651 319.88
   LOCATION L0011542     VOLUME   458120.603 3768739.241 320.00
   LOCATION L0011543     VOLUME   458120.633 3768747.831 320.00
   LOCATION L0011544     VOLUME   458120.663 3768756.421 320.00
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LOCATION	L0011545	VOLUME	458120.693	3768765.011	320.00
LOCATION	L0011546	VOLUME	458120.723	3768773.601	320.24
LOCATION	L0011547	VOLUME	458120.753	3768782.191	320.53
LOCATION	L0011548	VOLUME	458120.783	3768790.781	320.81
LOCATION	L0011549	VOLUME	458120.813	3768799.371	321.00
LOCATION	L0011550	VOLUME	458120.844	3768807.961	321.00
LOCATION	L0011551	VOLUME	458120.874	3768816.551	321.00
LOCATION	L0011552	VOLUME	458120.904	3768825.141	321.00
LOCATION	L0011553	VOLUME	458120.934	3768833.731	321.00
LOCATION	L0011554	VOLUME	458120.964	3768842.321	321.00
LOCATION	L0011555	VOLUME	458120.994	3768850.911	321.00
LOCATION	L0011556	VOLUME	458121.024	3768859.501	321.11
LOCATION	L0011557	VOLUME	458121.054	3768868.091	321.39
LOCATION	L0011558	VOLUME	458121.127	3768876.680	321.68
LOCATION	L0011559	VOLUME	458121.280	3768885.269	321.96
LOCATION	L0011560	VOLUME	458121.433	3768893.857	322.00
LOCATION	L0011561	VOLUME	458121.586	3768902.446	322.00
LOCATION	L0011562	VOLUME	458121.740	3768911.035	322.00
LOCATION	L0011563	VOLUME	458121.893	3768919.623	322.00
LOCATION	L0011564	VOLUME	458122.046	3768928.212	322.00
LOCATION	L0011565	VOLUME	458122.199	3768936.801	322.00
LOCATION	L0011566	VOLUME	458122.352	3768945.389	322.00
LOCATION	L0011567	VOLUME	458122.506	3768953.978	322.25
LOCATION	L0011568	VOLUME	458122.659	3768962.566	322.54
LOCATION	L0011569	VOLUME	458122.812	3768971.155	322.83
LOCATION	L0011570	VOLUME	458122.965	3768979.744	323.00
LOCATION	L0011571	VOLUME	458123.119	3768988.332	323.00
LOCATION	L0011572	VOLUME	458123.271	3768996.921	323.00
LOCATION	L0011573	VOLUME	458123.410	3769005.510	323.00
LOCATION	L0011574	VOLUME	458123.548	3769014.099	323.12
LOCATION	L0011575	VOLUME	458123.687	3769022.688	323.26
LOCATION	L0011576	VOLUME	458123.825	3769031.277	323.39
LOCATION	L0011577	VOLUME	458123.964	3769039.865	323.54
LOCATION	L0011578	VOLUME	458124.102	3769048.454	323.69
LOCATION	L0011579	VOLUME	458124.241	3769057.043	323.84
LOCATION	L0011580	VOLUME	458124.379	3769065.632	323.99
LOCATION	L0011581	VOLUME	458124.518	3769074.221	324.00
LOCATION	L0011582	VOLUME	458124.656	3769082.810	324.00
LOCATION	L0011583	VOLUME	458124.795	3769091.399	324.00
LOCATION	L0011584	VOLUME	458124.933	3769099.988	324.06
LOCATION	L0011585	VOLUME	458125.072	3769108.576	324.21
LOCATION	L0011586	VOLUME	458125.210	3769117.165	324.36
LOCATION	L0011587	VOLUME	458125.349	3769125.754	324.52
LOCATION	L0011588	VOLUME	458125.487	3769134.343	324.66
LOCATION	L0011589	VOLUME	458125.626	3769142.932	324.79
LOCATION	L0011590	VOLUME	458125.765	3769151.521	324.93
LOCATION	L0011591	VOLUME	458125.903	3769160.110	325.00
LOCATION	L0011592	VOLUME	458126.042	3769168.699	325.00

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   LOCATION L0011593     VOLUME   458126.519 3769177.274 325.00
   LOCATION L0011594     VOLUME   458127.081 3769185.845 325.00
   LOCATION L0011595     VOLUME   458127.643 3769194.417 325.16
   LOCATION L0011596     VOLUME   458128.205 3769202.988 325.34
   LOCATION L0011597     VOLUME   458128.893 3769211.549 325.54
   LOCATION L0011598     VOLUME   458129.835 3769220.087 325.72
   LOCATION L0011599     VOLUME   458130.776 3769228.626 325.83
   LOCATION L0011600     VOLUME   458131.717 3769237.164 325.92
** END OF LINE VOLUME SOURCE ID = SLINE19
** ----------------------------------------------------------------------
** LINE SOURCE REPRESENTED BY ADJACENT VOLUME SOURCES
** LINE VOLUME SOURCE ID = SLINE20
** DESCRSRC OFF-SITE TRAVEL 22% I-10/SLOVER AV.
** PREFIX
** LENGTH OF SIDE = 8.59
** CONFIGURATION = ADJACENT
** EMISSION RATE = 5.01E-06
** VERTICAL DIMENSION = 6.99
** SZINIT = 3.25
** NODES = 5
** 458131.869, 3769245.641, 326.00, 3.49, 4.00
** 458129.020, 3769361.053, 328.87, 3.49, 4.00
** 458138.993, 3769423.746, 329.00, 3.49, 4.00
** 458138.993, 3769563.380, 334.67, 3.49, 4.00
** 458140.418, 3769732.935, 335.00, 3.49, 4.00
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   LOCATION L0011601     VOLUME   458131.763 3769249.935 326.09
   LOCATION L0011602     VOLUME   458131.551 3769258.522 326.30
   LOCATION L0011603     VOLUME   458131.339 3769267.110 326.50
   LOCATION L0011604     VOLUME   458131.127 3769275.697 326.70
   LOCATION L0011605     VOLUME   458130.915 3769284.285 326.71
   LOCATION L0011606     VOLUME   458130.703 3769292.872 326.70
   LOCATION L0011607     VOLUME   458130.491 3769301.459 326.70
   LOCATION L0011608     VOLUME   458130.279 3769310.047 326.85
   LOCATION L0011609     VOLUME   458130.067 3769318.634 327.22
   LOCATION L0011610     VOLUME   458129.855 3769327.221 327.60
   LOCATION L0011611     VOLUME   458129.643 3769335.809 327.98
   LOCATION L0011612     VOLUME   458129.431 3769344.396 328.27
   LOCATION L0011613     VOLUME   458129.219 3769352.984 328.55
   LOCATION L0011614     VOLUME   458129.101 3769361.565 328.84
   LOCATION L0011615     VOLUME   458130.451 3769370.048 329.00
   LOCATION L0011616     VOLUME   458131.800 3769378.531 329.00
   LOCATION L0011617     VOLUME   458133.150 3769387.015 329.00
   LOCATION L0011618     VOLUME   458134.499 3769395.498 329.00
   LOCATION L0011619     VOLUME   458135.849 3769403.981 329.00
   LOCATION L0011620     VOLUME   458137.199 3769412.465 329.00
   LOCATION L0011621     VOLUME   458138.548 3769420.948 329.00
   LOCATION L0011622     VOLUME   458138.993 3769429.503 329.10
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   LOCATION L0011623     VOLUME   458138.993 3769438.093 329.38
   LOCATION L0011624     VOLUME   458138.993 3769446.683 329.66
   LOCATION L0011625     VOLUME   458138.993 3769455.273 329.95
   LOCATION L0011626     VOLUME   458138.993 3769463.863 330.97
   LOCATION L0011627     VOLUME   458138.993 3769472.453 332.10
   LOCATION L0011628     VOLUME   458138.993 3769481.043 333.22
   LOCATION L0011629     VOLUME   458138.993 3769489.633 334.25
   LOCATION L0011630     VOLUME   458138.993 3769498.223 335.09
   LOCATION L0011631     VOLUME   458138.993 3769506.813 335.94
   LOCATION L0011632     VOLUME   458138.993 3769515.403 336.79
   LOCATION L0011633     VOLUME   458138.993 3769523.993 336.39
   LOCATION L0011634     VOLUME   458138.993 3769532.583 335.83
   LOCATION L0011635     VOLUME   458138.993 3769541.173 335.28
   LOCATION L0011636     VOLUME   458138.993 3769549.763 334.94
   LOCATION L0011637     VOLUME   458138.993 3769558.353 334.95
   LOCATION L0011638     VOLUME   458139.023 3769566.943 334.96
   LOCATION L0011639     VOLUME   458139.096 3769575.532 334.97
   LOCATION L0011640     VOLUME   458139.168 3769584.122 334.98
   LOCATION L0011641     VOLUME   458139.240 3769592.712 334.99
   LOCATION L0011642     VOLUME   458139.312 3769601.301 335.00
   LOCATION L0011643     VOLUME   458139.384 3769609.891 335.00
   LOCATION L0011644     VOLUME   458139.456 3769618.481 335.00
   LOCATION L0011645     VOLUME   458139.529 3769627.071 335.00
   LOCATION L0011646     VOLUME   458139.601 3769635.660 335.00
   LOCATION L0011647     VOLUME   458139.673 3769644.250 333.42
   LOCATION L0011648     VOLUME   458139.745 3769652.840 331.70
   LOCATION L0011649     VOLUME   458139.817 3769661.429 329.98
   LOCATION L0011650     VOLUME   458139.890 3769670.019 329.73
   LOCATION L0011651     VOLUME   458139.962 3769678.609 331.45
   LOCATION L0011652     VOLUME   458140.034 3769687.198 333.17
   LOCATION L0011653     VOLUME   458140.106 3769695.788 334.89
   LOCATION L0011654     VOLUME   458140.178 3769704.378 335.00
   LOCATION L0011655     VOLUME   458140.250 3769712.967 335.00
   LOCATION L0011656     VOLUME   458140.323 3769721.557 335.00
   LOCATION L0011657     VOLUME   458140.395 3769730.147 335.00
** END OF LINE VOLUME SOURCE ID = SLINE20
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** LINE SOURCE REPRESENTED BY ADJACENT VOLUME SOURCES
** LINE VOLUME SOURCE ID = SLINE21
** DESCRSRC OFF-SITE TRAVEL 27% JURUPA AV. TO POPLAR AV.
** PREFIX
** LENGTH OF SIDE = 8.59
** CONFIGURATION = ADJACENT
** EMISSION RATE = 9.95E-06
** VERTICAL DIMENSION = 6.99
** SZINIT = 3.25
** NODES = 5
** 458098.618, 3767593.788, 308.00, 3.49, 4.00
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** 457845.664, 3767588.661, 306.88, 3.49, 4.00
** 457702.096, 3767592.079, 306.00, 3.49, 4.00
** 457476.488, 3767588.661, 304.93, 3.49, 4.00
** 457308.992, 3767590.370, 303.18, 3.49, 4.00
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   LOCATION L0011658     VOLUME   458094.324 3767593.701 308.00
   LOCATION L0011659     VOLUME   458085.736 3767593.527 308.00
   LOCATION L0011660     VOLUME   458077.147 3767593.353 308.00
   LOCATION L0011661     VOLUME   458068.559 3767593.179 308.00
   LOCATION L0011662     VOLUME   458059.971 3767593.005 308.00
   LOCATION L0011663     VOLUME   458051.383 3767592.831 308.00
   LOCATION L0011664     VOLUME   458042.794 3767592.657 307.97
   LOCATION L0011665     VOLUME   458034.206 3767592.483 307.93
   LOCATION L0011666     VOLUME   458025.618 3767592.309 307.89
   LOCATION L0011667     VOLUME   458017.030 3767592.135 307.86
   LOCATION L0011668     VOLUME   458008.441 3767591.961 307.85
   LOCATION L0011669     VOLUME   457999.853 3767591.786 307.85
   LOCATION L0011670     VOLUME   457991.265 3767591.612 307.84
   LOCATION L0011671     VOLUME   457982.677 3767591.438 307.84
   LOCATION L0011672     VOLUME   457974.089 3767591.264 307.83
   LOCATION L0011673     VOLUME   457965.500 3767591.090 307.82
   LOCATION L0011674     VOLUME   457956.912 3767590.916 307.75
   LOCATION L0011675     VOLUME   457948.324 3767590.742 307.51
   LOCATION L0011676     VOLUME   457939.736 3767590.568 307.27
   LOCATION L0011677     VOLUME   457931.147 3767590.394 307.04
   LOCATION L0011678     VOLUME   457922.559 3767590.220 307.00
   LOCATION L0011679     VOLUME   457913.971 3767590.046 307.00
   LOCATION L0011680     VOLUME   457905.383 3767589.871 307.00
   LOCATION L0011681     VOLUME   457896.794 3767589.697 307.00
   LOCATION L0011682     VOLUME   457888.206 3767589.523 307.00
   LOCATION L0011683     VOLUME   457879.618 3767589.349 307.00
   LOCATION L0011684     VOLUME   457871.030 3767589.175 307.00
   LOCATION L0011685     VOLUME   457862.441 3767589.001 306.94
   LOCATION L0011686     VOLUME   457853.853 3767588.827 306.87
   LOCATION L0011687     VOLUME   457845.265 3767588.670 306.79
   LOCATION L0011688     VOLUME   457836.677 3767588.875 306.75
   LOCATION L0011689     VOLUME   457828.090 3767589.079 306.76
   LOCATION L0011690     VOLUME   457819.502 3767589.284 306.76
   LOCATION L0011691     VOLUME   457810.915 3767589.488 306.77
   LOCATION L0011692     VOLUME   457802.327 3767589.693 306.78
   LOCATION L0011693     VOLUME   457793.740 3767589.897 306.79
   LOCATION L0011694     VOLUME   457785.152 3767590.102 306.79
   LOCATION L0011695     VOLUME   457776.564 3767590.306 306.72
   LOCATION L0011696     VOLUME   457767.977 3767590.511 306.49
   LOCATION L0011697     VOLUME   457759.389 3767590.715 306.27
   LOCATION L0011698     VOLUME   457750.802 3767590.920 306.03
   LOCATION L0011699     VOLUME   457742.214 3767591.124 306.00
   LOCATION L0011700     VOLUME   457733.627 3767591.329 306.00
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LOCATION L0011701     VOLUME   457725.039 3767591.533 306.00
LOCATION L0011702     VOLUME   457716.452 3767591.737 306.00
LOCATION L0011703     VOLUME   457707.864 3767591.942 306.00
LOCATION L0011704     VOLUME   457699.276 3767592.037 306.00
LOCATION L0011705     VOLUME   457690.687 3767591.906 306.00
LOCATION L0011706     VOLUME   457682.098 3767591.776 306.00
LOCATION L0011707     VOLUME   457673.509 3767591.646 306.00
LOCATION L0011708     VOLUME   457664.920 3767591.516 306.00
LOCATION L0011709     VOLUME   457656.331 3767591.386 306.00
LOCATION L0011710     VOLUME   457647.742 3767591.256 306.00
LOCATION L0011711     VOLUME   457639.153 3767591.126 306.00
LOCATION L0011712     VOLUME   457630.564 3767590.995 306.00
LOCATION L0011713     VOLUME   457621.975 3767590.865 305.75
LOCATION L0011714     VOLUME   457613.386 3767590.735 305.46
LOCATION L0011715     VOLUME   457604.797 3767590.605 305.17
LOCATION L0011716     VOLUME   457596.208 3767590.475 305.00
LOCATION L0011717     VOLUME   457587.619 3767590.345 305.00
LOCATION L0011718     VOLUME   457579.030 3767590.215 305.00
LOCATION L0011719     VOLUME   457570.441 3767590.084 305.00
LOCATION L0011720     VOLUME   457561.852 3767589.954 305.00
LOCATION L0011721     VOLUME   457553.263 3767589.824 305.00
LOCATION L0011722     VOLUME   457544.674 3767589.694 305.00
LOCATION L0011723     VOLUME   457536.085 3767589.564 305.00
LOCATION L0011724     VOLUME   457527.496 3767589.434 305.00
LOCATION L0011725     VOLUME   457518.907 3767589.304 305.00
LOCATION L0011726     VOLUME   457510.318 3767589.174 305.00
LOCATION L0011727     VOLUME   457501.729 3767589.043 305.00
LOCATION L0011728     VOLUME   457493.140 3767588.913 305.00
LOCATION L0011729     VOLUME   457484.551 3767588.783 305.00
LOCATION L0011730     VOLUME   457475.961 3767588.666 304.91
LOCATION L0011731     VOLUME   457467.372 3767588.754 304.70
LOCATION L0011732     VOLUME   457458.782 3767588.842 304.48
LOCATION L0011733     VOLUME   457450.193 3767588.929 304.26
LOCATION L0011734     VOLUME   457441.603 3767589.017 304.24
LOCATION L0011735     VOLUME   457433.014 3767589.105 304.24
LOCATION L0011736     VOLUME   457424.424 3767589.192 304.24
LOCATION L0011737     VOLUME   457415.835 3767589.280 304.24
LOCATION L0011738     VOLUME   457407.245 3767589.368 304.23
LOCATION L0011739     VOLUME   457398.656 3767589.455 304.23
LOCATION L0011740     VOLUME   457390.066 3767589.543 304.23
LOCATION L0011741     VOLUME   457381.476 3767589.630 304.16
LOCATION L0011742     VOLUME   457372.887 3767589.718 304.10
LOCATION L0011743     VOLUME   457364.297 3767589.806 304.03
LOCATION L0011744     VOLUME   457355.708 3767589.893 304.00
LOCATION L0011745     VOLUME   457347.118 3767589.981 304.00
LOCATION L0011746     VOLUME   457338.529 3767590.069 304.00
LOCATION L0011747     VOLUME   457329.939 3767590.156 304.00
LOCATION L0011748     VOLUME   457321.350 3767590.244 303.73
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   LOCATION L0011749     VOLUME   457312.760 3767590.332 303.44
** END OF LINE VOLUME SOURCE ID = SLINE21
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** LINE SOURCE REPRESENTED BY ADJACENT VOLUME SOURCES
** LINE VOLUME SOURCE ID = SLINE22
** DESCRSRC OFF-SITE TRAVEL 2% ON POPLAR
** PREFIX
** LENGTH OF SIDE = 8.59
** CONFIGURATION = ADJACENT
** EMISSION RATE = 7.696E-07
** VERTICAL DIMENSION = 6.99
** SZINIT = 3.25
** NODES = 2
** 457305.089, 3767598.193, 303.05, 3.49, 4.00
** 457310.125, 3768422.836, 310.00, 3.49, 4.00
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   LOCATION L0011750     VOLUME   457305.115 3767602.488 303.18
   LOCATION L0011751     VOLUME   457305.168 3767611.077 303.19
   LOCATION L0011752     VOLUME   457305.220 3767619.667 303.19
   LOCATION L0011753     VOLUME   457305.273 3767628.257 303.18
   LOCATION L0011754     VOLUME   457305.325 3767636.847 303.12
   LOCATION L0011755     VOLUME   457305.378 3767645.437 303.07
   LOCATION L0011756     VOLUME   457305.430 3767654.027 303.02
   LOCATION L0011757     VOLUME   457305.483 3767662.617 303.00
   LOCATION L0011758     VOLUME   457305.535 3767671.206 303.00
   LOCATION L0011759     VOLUME   457305.587 3767679.796 303.00
   LOCATION L0011760     VOLUME   457305.640 3767688.386 303.01
   LOCATION L0011761     VOLUME   457305.692 3767696.976 303.07
   LOCATION L0011762     VOLUME   457305.745 3767705.566 303.13
   LOCATION L0011763     VOLUME   457305.797 3767714.156 303.19
   LOCATION L0011764     VOLUME   457305.850 3767722.745 303.21
   LOCATION L0011765     VOLUME   457305.902 3767731.335 303.21
   LOCATION L0011766     VOLUME   457305.955 3767739.925 303.21
   LOCATION L0011767     VOLUME   457306.007 3767748.515 303.27
   LOCATION L0011768     VOLUME   457306.060 3767757.105 303.50
   LOCATION L0011769     VOLUME   457306.112 3767765.695 303.72
   LOCATION L0011770     VOLUME   457306.164 3767774.284 303.95
   LOCATION L0011771     VOLUME   457306.217 3767782.874 304.00
   LOCATION L0011772     VOLUME   457306.269 3767791.464 304.00
   LOCATION L0011773     VOLUME   457306.322 3767800.054 304.00
   LOCATION L0011774     VOLUME   457306.374 3767808.644 304.00
   LOCATION L0011775     VOLUME   457306.427 3767817.234 304.00
   LOCATION L0011776     VOLUME   457306.479 3767825.823 304.00
   LOCATION L0011777     VOLUME   457306.532 3767834.413 304.00
   LOCATION L0011778     VOLUME   457306.584 3767843.003 304.00
   LOCATION L0011779     VOLUME   457306.637 3767851.593 304.00
   LOCATION L0011780     VOLUME   457306.689 3767860.183 304.00
   LOCATION L0011781     VOLUME   457306.741 3767868.773 304.00
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LOCATION L0011782     VOLUME   457306.794 3767877.363 304.00
LOCATION L0011783     VOLUME   457306.846 3767885.952 304.00
LOCATION L0011784     VOLUME   457306.899 3767894.542 304.00
LOCATION L0011785     VOLUME   457306.951 3767903.132 304.06
LOCATION L0011786     VOLUME   457307.004 3767911.722 304.13
LOCATION L0011787     VOLUME   457307.056 3767920.312 304.20
LOCATION L0011788     VOLUME   457307.109 3767928.902 304.32
LOCATION L0011789     VOLUME   457307.161 3767937.491 304.53
LOCATION L0011790     VOLUME   457307.214 3767946.081 304.75
LOCATION L0011791     VOLUME   457307.266 3767954.671 304.96
LOCATION L0011792     VOLUME   457307.319 3767963.261 305.00
LOCATION L0011793     VOLUME   457307.371 3767971.851 305.00
LOCATION L0011794     VOLUME   457307.423 3767980.441 305.00
LOCATION L0011795     VOLUME   457307.476 3767989.030 305.02
LOCATION L0011796     VOLUME   457307.528 3767997.620 305.10
LOCATION L0011797     VOLUME   457307.581 3768006.210 305.18
LOCATION L0011798     VOLUME   457307.633 3768014.800 305.25
LOCATION L0011799     VOLUME   457307.686 3768023.390 305.44
LOCATION L0011800     VOLUME   457307.738 3768031.980 305.65
LOCATION L0011801     VOLUME   457307.791 3768040.569 305.86
LOCATION L0011802     VOLUME   457307.843 3768049.159 306.00
LOCATION L0011803     VOLUME   457307.896 3768057.749 306.00
LOCATION L0011804     VOLUME   457307.948 3768066.339 306.00
LOCATION L0011805     VOLUME   457308.000 3768074.929 306.00
LOCATION L0011806     VOLUME   457308.053 3768083.519 306.07
LOCATION L0011807     VOLUME   457308.105 3768092.109 306.15
LOCATION L0011808     VOLUME   457308.158 3768100.698 306.23
LOCATION L0011809     VOLUME   457308.210 3768109.288 306.36
LOCATION L0011810     VOLUME   457308.263 3768117.878 306.56
LOCATION L0011811     VOLUME   457308.315 3768126.468 306.77
LOCATION L0011812     VOLUME   457308.368 3768135.058 306.97
LOCATION L0011813     VOLUME   457308.420 3768143.648 307.00
LOCATION L0011814     VOLUME   457308.473 3768152.237 307.00
LOCATION L0011815     VOLUME   457308.525 3768160.827 307.00
LOCATION L0011816     VOLUME   457308.577 3768169.417 307.10
LOCATION L0011817     VOLUME   457308.630 3768178.007 307.39
LOCATION L0011818     VOLUME   457308.682 3768186.597 307.68
LOCATION L0011819     VOLUME   457308.735 3768195.187 307.96
LOCATION L0011820     VOLUME   457308.787 3768203.776 308.00
LOCATION L0011821     VOLUME   457308.840 3768212.366 308.00
LOCATION L0011822     VOLUME   457308.892 3768220.956 308.00
LOCATION L0011823     VOLUME   457308.945 3768229.546 308.00
LOCATION L0011824     VOLUME   457308.997 3768238.136 308.00
LOCATION L0011825     VOLUME   457309.050 3768246.726 308.00
LOCATION L0011826     VOLUME   457309.102 3768255.315 308.00
LOCATION L0011827     VOLUME   457309.155 3768263.905 308.25
LOCATION L0011828     VOLUME   457309.207 3768272.495 308.54
LOCATION L0011829     VOLUME   457309.259 3768281.085 308.82
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   LOCATION L0011830     VOLUME   457309.312 3768289.675 309.00
   LOCATION L0011831     VOLUME   457309.364 3768298.265 309.00
   LOCATION L0011832     VOLUME   457309.417 3768306.855 309.00
   LOCATION L0011833     VOLUME   457309.469 3768315.444 309.00
   LOCATION L0011834     VOLUME   457309.522 3768324.034 309.00
   LOCATION L0011835     VOLUME   457309.574 3768332.624 309.00
   LOCATION L0011836     VOLUME   457309.627 3768341.214 309.00
   LOCATION L0011837     VOLUME   457309.679 3768349.804 309.04
   LOCATION L0011838     VOLUME   457309.732 3768358.394 309.14
   LOCATION L0011839     VOLUME   457309.784 3768366.983 309.23
   LOCATION L0011840     VOLUME   457309.836 3768375.573 309.33
   LOCATION L0011841     VOLUME   457309.889 3768384.163 309.51
   LOCATION L0011842     VOLUME   457309.941 3768392.753 309.70
   LOCATION L0011843     VOLUME   457309.994 3768401.343 309.89
   LOCATION L0011844     VOLUME   457310.046 3768409.933 310.00
   LOCATION L0011845     VOLUME   457310.099 3768418.522 310.00
** END OF LINE VOLUME SOURCE ID = SLINE22
** ----------------------------------------------------------------
** LINE SOURCE REPRESENTED BY ADJACENT VOLUME SOURCES
** LINE VOLUME SOURCE ID = SLINE23
** DESCRSRC OFF-SITE TRAVEL 25% JURUPA AV. TO BEECH AV.
** PREFIX
** LENGTH OF SIDE = 8.59
** CONFIGURATION = ADJACENT
** EMISSION RATE = 9.175E-06
** VERTICAL DIMENSION = 6.99
** SZINIT = 3.25
** NODES = 5
** 456507.642, 3767588.782, 295.87, 3.49, 4.00
** 456701.587, 3767586.651, 297.00, 3.49, 4.00
** 456897.663, 3767584.519, 298.47, 3.49, 4.00
** 457072.426, 3767588.782, 300.25, 3.49, 4.00
** 457294.077, 3767590.913, 303.04, 3.49, 4.00
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   LOCATION L0011846     VOLUME   456511.937 3767588.735 295.75
   LOCATION L0011847     VOLUME   456520.526 3767588.640 295.75
   LOCATION L0011848     VOLUME   456529.116 3767588.546 295.82
   LOCATION L0011849     VOLUME   456537.705 3767588.452 295.90
   LOCATION L0011850     VOLUME   456546.295 3767588.357 295.97
   LOCATION L0011851     VOLUME   456554.884 3767588.263 296.00
   LOCATION L0011852     VOLUME   456563.474 3767588.168 296.00
   LOCATION L0011853     VOLUME   456572.063 3767588.074 296.00
   LOCATION L0011854     VOLUME   456580.653 3767587.980 296.03
   LOCATION L0011855     VOLUME   456589.242 3767587.885 296.23
   LOCATION L0011856     VOLUME   456597.832 3767587.791 296.44
   LOCATION L0011857     VOLUME   456606.421 3767587.696 296.64
   LOCATION L0011858     VOLUME   456615.011 3767587.602 296.71
   LOCATION L0011859     VOLUME   456623.600 3767587.508 296.71
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LOCATION L0011860     VOLUME   456632.190 3767587.413 296.70
LOCATION L0011861     VOLUME   456640.779 3767587.319 296.71
LOCATION L0011862     VOLUME   456649.369 3767587.224 296.80
LOCATION L0011863     VOLUME   456657.958 3767587.130 296.88
LOCATION L0011864     VOLUME   456666.548 3767587.036 296.97
LOCATION L0011865     VOLUME   456675.137 3767586.941 297.00
LOCATION L0011866     VOLUME   456683.727 3767586.847 297.00
LOCATION L0011867     VOLUME   456692.316 3767586.753 297.00
LOCATION L0011868     VOLUME   456700.905 3767586.658 297.00
LOCATION L0011869     VOLUME   456709.495 3767586.565 297.00
LOCATION L0011870     VOLUME   456718.084 3767586.471 297.00
LOCATION L0011871     VOLUME   456726.674 3767586.378 297.00
LOCATION L0011872     VOLUME   456735.263 3767586.285 297.13
LOCATION L0011873     VOLUME   456743.853 3767586.191 297.32
LOCATION L0011874     VOLUME   456752.442 3767586.098 297.50
LOCATION L0011875     VOLUME   456761.032 3767586.005 297.67
LOCATION L0011876     VOLUME   456769.621 3767585.911 297.77
LOCATION L0011877     VOLUME   456778.211 3767585.818 297.87
LOCATION L0011878     VOLUME   456786.800 3767585.724 297.97
LOCATION L0011879     VOLUME   456795.390 3767585.631 298.00
LOCATION L0011880     VOLUME   456803.979 3767585.538 298.00
LOCATION L0011881     VOLUME   456812.569 3767585.444 298.00
LOCATION L0011882     VOLUME   456821.158 3767585.351 298.00
LOCATION L0011883     VOLUME   456829.748 3767585.258 298.00
LOCATION L0011884     VOLUME   456838.337 3767585.164 298.00
LOCATION L0011885     VOLUME   456846.927 3767585.071 298.00
LOCATION L0011886     VOLUME   456855.516 3767584.978 298.00
LOCATION L0011887     VOLUME   456864.106 3767584.884 298.00
LOCATION L0011888     VOLUME   456872.695 3767584.791 298.00
LOCATION L0011889     VOLUME   456881.285 3767584.697 298.04
LOCATION L0011890     VOLUME   456889.874 3767584.604 298.21
LOCATION L0011891     VOLUME   456898.464 3767584.539 298.38
LOCATION L0011892     VOLUME   456907.051 3767584.748 298.56
LOCATION L0011893     VOLUME   456915.638 3767584.958 298.62
LOCATION L0011894     VOLUME   456924.226 3767585.167 298.63
LOCATION L0011895     VOLUME   456932.813 3767585.377 298.63
LOCATION L0011896     VOLUME   456941.401 3767585.586 298.66
LOCATION L0011897     VOLUME   456949.988 3767585.796 298.77
LOCATION L0011898     VOLUME   456958.576 3767586.005 298.87
LOCATION L0011899     VOLUME   456967.163 3767586.215 298.97
LOCATION L0011900     VOLUME   456975.751 3767586.424 299.00
LOCATION L0011901     VOLUME   456984.338 3767586.633 299.00
LOCATION L0011902     VOLUME   456992.926 3767586.843 299.00
LOCATION L0011903     VOLUME   457001.513 3767587.052 299.00
LOCATION L0011904     VOLUME   457010.100 3767587.262 299.00
LOCATION L0011905     VOLUME   457018.688 3767587.471 299.00
LOCATION L0011906     VOLUME   457027.275 3767587.681 299.00
LOCATION L0011907     VOLUME   457035.863 3767587.890 299.21
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   LOCATION L0011908     VOLUME   457044.450 3767588.100 299.50
   LOCATION L0011909     VOLUME   457053.038 3767588.309 299.78
   LOCATION L0011910     VOLUME   457061.625 3767588.518 300.07
   LOCATION L0011911     VOLUME   457070.213 3767588.728 300.35
   LOCATION L0011912     VOLUME   457078.802 3767588.843 300.64
   LOCATION L0011913     VOLUME   457087.391 3767588.926 300.93
   LOCATION L0011914     VOLUME   457095.981 3767589.008 301.05
   LOCATION L0011915     VOLUME   457104.570 3767589.091 301.12
   LOCATION L0011916     VOLUME   457113.160 3767589.174 301.19
   LOCATION L0011917     VOLUME   457121.750 3767589.256 301.31
   LOCATION L0011918     VOLUME   457130.339 3767589.339 301.59
   LOCATION L0011919     VOLUME   457138.929 3767589.421 301.88
   LOCATION L0011920     VOLUME   457147.518 3767589.504 302.16
   LOCATION L0011921     VOLUME   457156.108 3767589.587 302.39
   LOCATION L0011922     VOLUME   457164.698 3767589.669 302.61
   LOCATION L0011923     VOLUME   457173.287 3767589.752 302.84
   LOCATION L0011924     VOLUME   457181.877 3767589.834 303.00
   LOCATION L0011925     VOLUME   457190.466 3767589.917 303.00
   LOCATION L0011926     VOLUME   457199.056 3767590.000 303.00
   LOCATION L0011927     VOLUME   457207.646 3767590.082 303.00
   LOCATION L0011928     VOLUME   457216.235 3767590.165 303.00
   LOCATION L0011929     VOLUME   457224.825 3767590.247 303.00
   LOCATION L0011930     VOLUME   457233.414 3767590.330 303.00
   LOCATION L0011931     VOLUME   457242.004 3767590.412 303.02
   LOCATION L0011932     VOLUME   457250.594 3767590.495 303.07
   LOCATION L0011933     VOLUME   457259.183 3767590.578 303.13
   LOCATION L0011934     VOLUME   457267.773 3767590.660 303.18
   LOCATION L0011935     VOLUME   457276.362 3767590.743 303.14
   LOCATION L0011936     VOLUME   457284.952 3767590.825 303.09
   LOCATION L0011937     VOLUME   457293.542 3767590.908 303.04
** END OF LINE VOLUME SOURCE ID = SLINE23
** ----------------------------------------------------------------------
** LINE SOURCE REPRESENTED BY ADJACENT VOLUME SOURCES
** LINE VOLUME SOURCE ID = SLINE24
** DESCRSRC OFF-SITE TRAVEL 1% ON BEECH AV.
** PREFIX
** LENGTH OF SIDE = 8.59
** CONFIGURATION = ADJACENT
** EMISSION RATE = 3.762E-07
** VERTICAL DIMENSION = 6.99
** SZINIT = 3.25
** NODES = 6
** 456511.837, 3767604.533, 295.94, 3.49, 4.00
** 456498.940, 3767751.237, 297.76, 3.49, 4.00
** 456497.328, 3767830.231, 298.05, 3.49, 4.00
** 456504.735, 3767986.697, 300.92, 3.49, 4.00
** 456504.020, 3768198.435, 300.68, 3.49, 4.00
** 456506.048, 3768410.070, 306.00, 3.49, 4.00
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   LOCATION L0011938     VOLUME   456511.461 3767608.811 296.00
   LOCATION L0011939     VOLUME   456510.709 3767617.368 296.00
   LOCATION L0011940     VOLUME   456509.957 3767625.925 296.00
   LOCATION L0011941     VOLUME   456509.204 3767634.482 296.27
   LOCATION L0011942     VOLUME   456508.452 3767643.039 296.56
   LOCATION L0011943     VOLUME   456507.700 3767651.596 296.84
   LOCATION L0011944     VOLUME   456506.948 3767660.153 297.00
   LOCATION L0011945     VOLUME   456506.195 3767668.710 297.00
   LOCATION L0011946     VOLUME   456505.443 3767677.267 297.00
   LOCATION L0011947     VOLUME   456504.691 3767685.824 297.00
   LOCATION L0011948     VOLUME   456503.939 3767694.381 297.00
   LOCATION L0011949     VOLUME   456503.186 3767702.938 297.00
   LOCATION L0011950     VOLUME   456502.434 3767711.495 297.00
   LOCATION L0011951     VOLUME   456501.682 3767720.052 297.07
   LOCATION L0011952     VOLUME   456500.929 3767728.609 297.25
   LOCATION L0011953     VOLUME   456500.177 3767737.166 297.45
   LOCATION L0011954     VOLUME   456499.425 3767745.723 297.66
   LOCATION L0011955     VOLUME   456498.878 3767754.291 297.77
   LOCATION L0011956     VOLUME   456498.703 3767762.879 297.86
   LOCATION L0011957     VOLUME   456498.527 3767771.468 297.95
   LOCATION L0011958     VOLUME   456498.352 3767780.056 298.00
   LOCATION L0011959     VOLUME   456498.177 3767788.644 298.00
   LOCATION L0011960     VOLUME   456498.002 3767797.232 298.00
   LOCATION L0011961     VOLUME   456497.826 3767805.820 298.00
   LOCATION L0011962     VOLUME   456497.651 3767814.409 298.00
   LOCATION L0011963     VOLUME   456497.476 3767822.997 298.00
   LOCATION L0011964     VOLUME   456497.392 3767831.584 298.00
   LOCATION L0011965     VOLUME   456497.798 3767840.164 298.13
   LOCATION L0011966     VOLUME   456498.205 3767848.745 298.41
   LOCATION L0011967     VOLUME   456498.611 3767857.325 298.70
   LOCATION L0011968     VOLUME   456499.017 3767865.905 298.99
   LOCATION L0011969     VOLUME   456499.423 3767874.486 299.00
   LOCATION L0011970     VOLUME   456499.829 3767883.066 299.00
   LOCATION L0011971     VOLUME   456500.235 3767891.647 299.00
   LOCATION L0011972     VOLUME   456500.642 3767900.227 299.13
   LOCATION L0011973     VOLUME   456501.048 3767908.807 299.42
   LOCATION L0011974     VOLUME   456501.454 3767917.388 299.70
   LOCATION L0011975     VOLUME   456501.860 3767925.968 299.99
   LOCATION L0011976     VOLUME   456502.266 3767934.548 300.00
   LOCATION L0011977     VOLUME   456502.673 3767943.129 300.00
   LOCATION L0011978     VOLUME   456503.079 3767951.709 300.00
   LOCATION L0011979     VOLUME   456503.485 3767960.290 300.13
   LOCATION L0011980     VOLUME   456503.891 3767968.870 300.42
   LOCATION L0011981     VOLUME   456504.297 3767977.450 300.70
   LOCATION L0011982     VOLUME   456504.704 3767986.031 300.99
   LOCATION L0011983     VOLUME   456504.708 3767994.620 300.72
   LOCATION L0011984     VOLUME   456504.679 3768003.210 300.44
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   LOCATION L0011985     VOLUME   456504.650 3768011.800 300.15
   LOCATION L0011986     VOLUME   456504.621 3768020.390 299.93
   LOCATION L0011987     VOLUME   456504.592 3768028.980 299.79
   LOCATION L0011988     VOLUME   456504.563 3768037.570 299.65
   LOCATION L0011989     VOLUME   456504.534 3768046.160 299.50
   LOCATION L0011990     VOLUME   456504.505 3768054.750 299.50
   LOCATION L0011991     VOLUME   456504.476 3768063.340 299.50
   LOCATION L0011992     VOLUME   456504.447 3768071.930 299.50
   LOCATION L0011993     VOLUME   456504.418 3768080.520 299.50
   LOCATION L0011994     VOLUME   456504.389 3768089.109 299.49
   LOCATION L0011995     VOLUME   456504.360 3768097.699 299.49
   LOCATION L0011996     VOLUME   456504.331 3768106.289 299.49
   LOCATION L0011997     VOLUME   456504.302 3768114.879 299.49
   LOCATION L0011998     VOLUME   456504.273 3768123.469 299.49
   LOCATION L0011999     VOLUME   456504.244 3768132.059 299.49
   LOCATION L0012000     VOLUME   456504.215 3768140.649 299.56
   LOCATION L0012001     VOLUME   456504.186 3768149.239 299.70
   LOCATION L0012002     VOLUME   456504.157 3768157.829 299.84
   LOCATION L0012003     VOLUME   456504.128 3768166.419 299.97
   LOCATION L0012004     VOLUME   456504.099 3768175.009 300.26
   LOCATION L0012005     VOLUME   456504.070 3768183.599 300.54
   LOCATION L0012006     VOLUME   456504.041 3768192.189 300.83
   LOCATION L0012007     VOLUME   456504.042 3768200.779 301.41
   LOCATION L0012008     VOLUME   456504.125 3768209.368 302.29
   LOCATION L0012009     VOLUME   456504.207 3768217.958 303.15
   LOCATION L0012010     VOLUME   456504.289 3768226.548 304.01
   LOCATION L0012011     VOLUME   456504.372 3768235.137 304.29
   LOCATION L0012012     VOLUME   456504.454 3768243.727 304.58
   LOCATION L0012013     VOLUME   456504.536 3768252.316 304.87
   LOCATION L0012014     VOLUME   456504.619 3768260.906 305.00
   LOCATION L0012015     VOLUME   456504.701 3768269.496 305.00
   LOCATION L0012016     VOLUME   456504.783 3768278.085 305.00
   LOCATION L0012017     VOLUME   456504.866 3768286.675 305.00
   LOCATION L0012018     VOLUME   456504.948 3768295.264 305.00
   LOCATION L0012019     VOLUME   456505.030 3768303.854 305.00
   LOCATION L0012020     VOLUME   456505.113 3768312.444 305.00
   LOCATION L0012021     VOLUME   456505.195 3768321.033 305.16
   LOCATION L0012022     VOLUME   456505.277 3768329.623 305.44
   LOCATION L0012023     VOLUME   456505.360 3768338.212 305.73
   LOCATION L0012024     VOLUME   456505.442 3768346.802 306.00
   LOCATION L0012025     VOLUME   456505.524 3768355.392 306.00
   LOCATION L0012026     VOLUME   456505.607 3768363.981 306.00
   LOCATION L0012027     VOLUME   456505.689 3768372.571 306.00
   LOCATION L0012028     VOLUME   456505.771 3768381.160 306.00
   LOCATION L0012029     VOLUME   456505.854 3768389.750 306.00
   LOCATION L0012030     VOLUME   456505.936 3768398.340 306.00
   LOCATION L0012031     VOLUME   456506.018 3768406.929 306.00
** END OF LINE VOLUME SOURCE ID = SLINE24
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** LINE SOURCE REPRESENTED BY ADJACENT VOLUME SOURCES
** LINE VOLUME SOURCE ID = SLINE25
** DESCRSRC OFF-SITE TRAVEL 24% ON JURUPA AV.
** PREFIX
** LENGTH OF SIDE = 8.59
** CONFIGURATION = ADJACENT
** EMISSION RATE = 0.00002311
** VERTICAL DIMENSION = 6.99
** SZINIT = 3.25
** NODES = 9
** 454430.178, 3767600.829, 283.00, 3.49, 4.00
** 454782.249, 3767597.740, 285.00, 3.49, 4.00
** 455066.376, 3767585.387, 287.00, 3.49, 4.00
** 455279.471, 3767588.475, 287.63, 3.49, 4.00
** 455526.538, 3767585.387, 288.79, 3.49, 4.00
** 455869.344, 3767582.299, 290.26, 3.49, 4.00
** 456107.146, 3767585.387, 293.16, 3.49, 4.00
** 456426.466, 3767587.325, 295.06, 3.49, 4.00
** 456493.188, 3767591.564, 295.95, 3.49, 4.00
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   LOCATION L0012032     VOLUME   454434.473 3767600.791 283.07
   LOCATION L0012033     VOLUME   454443.063 3767600.716 283.03
   LOCATION L0012034     VOLUME   454451.652 3767600.640 283.07
   LOCATION L0012035     VOLUME   454460.242 3767600.565 283.36
   LOCATION L0012036     VOLUME   454468.832 3767600.489 283.64
   LOCATION L0012037     VOLUME   454477.421 3767600.414 283.93
   LOCATION L0012038     VOLUME   454486.011 3767600.339 284.00
   LOCATION L0012039     VOLUME   454494.601 3767600.263 284.00
   LOCATION L0012040     VOLUME   454503.190 3767600.188 284.00
   LOCATION L0012041     VOLUME   454511.780 3767600.113 284.00
   LOCATION L0012042     VOLUME   454520.370 3767600.037 284.00
   LOCATION L0012043     VOLUME   454528.959 3767599.962 284.00
   LOCATION L0012044     VOLUME   454537.549 3767599.887 284.00
   LOCATION L0012045     VOLUME   454546.139 3767599.811 284.00
   LOCATION L0012046     VOLUME   454554.728 3767599.736 284.00
   LOCATION L0012047     VOLUME   454563.318 3767599.661 284.00
   LOCATION L0012048     VOLUME   454571.908 3767599.585 284.01
   LOCATION L0012049     VOLUME   454580.497 3767599.510 284.04
   LOCATION L0012050     VOLUME   454589.087 3767599.435 284.07
   LOCATION L0012051     VOLUME   454597.677 3767599.359 284.09
   LOCATION L0012052     VOLUME   454606.266 3767599.284 284.10
   LOCATION L0012053     VOLUME   454614.856 3767599.209 284.10
   LOCATION L0012054     VOLUME   454623.446 3767599.133 284.09
   LOCATION L0012055     VOLUME   454632.035 3767599.058 284.09
   LOCATION L0012056     VOLUME   454640.625 3767598.983 284.09
   LOCATION L0012057     VOLUME   454649.215 3767598.907 284.09
   LOCATION L0012058     VOLUME   454657.804 3767598.832 284.08
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LOCATION L0012059     VOLUME   454666.394 3767598.756 284.29
LOCATION L0012060     VOLUME   454674.984 3767598.681 284.55
LOCATION L0012061     VOLUME   454683.573 3767598.606 284.82
LOCATION L0012062     VOLUME   454692.163 3767598.530 285.00
LOCATION L0012063     VOLUME   454700.753 3767598.455 285.00
LOCATION L0012064     VOLUME   454709.342 3767598.380 285.00
LOCATION L0012065     VOLUME   454717.932 3767598.304 285.00
LOCATION L0012066     VOLUME   454726.522 3767598.229 285.00
LOCATION L0012067     VOLUME   454735.111 3767598.154 285.00
LOCATION L0012068     VOLUME   454743.701 3767598.078 285.00
LOCATION L0012069     VOLUME   454752.291 3767598.003 285.01
LOCATION L0012070     VOLUME   454760.880 3767597.928 285.02
LOCATION L0012071     VOLUME   454769.470 3767597.852 285.03
LOCATION L0012072     VOLUME   454778.060 3767597.777 285.05
LOCATION L0012073     VOLUME   454786.645 3767597.549 285.04
LOCATION L0012074     VOLUME   454795.227 3767597.176 285.03
LOCATION L0012075     VOLUME   454803.809 3767596.803 285.02
LOCATION L0012076     VOLUME   454812.391 3767596.430 285.10
LOCATION L0012077     VOLUME   454820.973 3767596.057 285.38
LOCATION L0012078     VOLUME   454829.555 3767595.683 285.65
LOCATION L0012079     VOLUME   454838.137 3767595.310 285.92
LOCATION L0012080     VOLUME   454846.719 3767594.937 285.95
LOCATION L0012081     VOLUME   454855.301 3767594.564 285.94
LOCATION L0012082     VOLUME   454863.882 3767594.191 285.93
LOCATION L0012083     VOLUME   454872.464 3767593.818 285.92
LOCATION L0012084     VOLUME   454881.046 3767593.445 285.94
LOCATION L0012085     VOLUME   454889.628 3767593.072 285.96
LOCATION L0012086     VOLUME   454898.210 3767592.698 285.99
LOCATION L0012087     VOLUME   454906.792 3767592.325 286.00
LOCATION L0012088     VOLUME   454915.374 3767591.952 286.00
LOCATION L0012089     VOLUME   454923.956 3767591.579 286.00
LOCATION L0012090     VOLUME   454932.538 3767591.206 286.08
LOCATION L0012091     VOLUME   454941.119 3767590.833 286.32
LOCATION L0012092     VOLUME   454949.701 3767590.460 286.54
LOCATION L0012093     VOLUME   454958.283 3767590.087 286.76
LOCATION L0012094     VOLUME   454966.865 3767589.713 286.78
LOCATION L0012095     VOLUME   454975.447 3767589.340 286.77
LOCATION L0012096     VOLUME   454984.029 3767588.967 286.75
LOCATION L0012097     VOLUME   454992.611 3767588.594 286.77
LOCATION L0012098     VOLUME   455001.193 3767588.221 286.83
LOCATION L0012099     VOLUME   455009.775 3767587.848 286.91
LOCATION L0012100     VOLUME   455018.356 3767587.475 286.99
LOCATION L0012101     VOLUME   455026.938 3767587.102 287.00
LOCATION L0012102     VOLUME   455035.520 3767586.728 287.00
LOCATION L0012103     VOLUME   455044.102 3767586.355 287.00
LOCATION L0012104     VOLUME   455052.684 3767585.982 287.00
LOCATION L0012105     VOLUME   455061.266 3767585.609 287.00
LOCATION L0012106     VOLUME   455069.851 3767585.437 287.00
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LOCATION L0012107     VOLUME   455078.440 3767585.562 287.00
LOCATION L0012108     VOLUME   455087.029 3767585.686 287.00
LOCATION L0012109     VOLUME   455095.618 3767585.811 287.00
LOCATION L0012110     VOLUME   455104.207 3767585.935 287.00
LOCATION L0012111     VOLUME   455112.796 3767586.060 287.00
LOCATION L0012112     VOLUME   455121.385 3767586.184 287.00
LOCATION L0012113     VOLUME   455129.974 3767586.309 287.00
LOCATION L0012114     VOLUME   455138.564 3767586.433 287.00
LOCATION L0012115     VOLUME   455147.153 3767586.558 287.00
LOCATION L0012116     VOLUME   455155.742 3767586.682 287.00
LOCATION L0012117     VOLUME   455164.331 3767586.807 287.00
LOCATION L0012118     VOLUME   455172.920 3767586.931 287.00
LOCATION L0012119     VOLUME   455181.509 3767587.055 287.00
LOCATION L0012120     VOLUME   455190.098 3767587.180 287.00
LOCATION L0012121     VOLUME   455198.687 3767587.304 287.00
LOCATION L0012122     VOLUME   455207.276 3767587.429 287.00
LOCATION L0012123     VOLUME   455215.865 3767587.553 287.00
LOCATION L0012124     VOLUME   455224.455 3767587.678 287.00
LOCATION L0012125     VOLUME   455233.044 3767587.802 287.00
LOCATION L0012126     VOLUME   455241.633 3767587.927 287.00
LOCATION L0012127     VOLUME   455250.222 3767588.051 287.00
LOCATION L0012128     VOLUME   455258.811 3767588.176 287.00
LOCATION L0012129     VOLUME   455267.400 3767588.300 287.19
LOCATION L0012130     VOLUME   455275.989 3767588.425 287.40
LOCATION L0012131     VOLUME   455284.578 3767588.411 287.61
LOCATION L0012132     VOLUME   455293.168 3767588.304 287.76
LOCATION L0012133     VOLUME   455301.757 3767588.197 287.84
LOCATION L0012134     VOLUME   455310.346 3767588.089 287.92
LOCATION L0012135     VOLUME   455318.936 3767587.982 287.99
LOCATION L0012136     VOLUME   455327.525 3767587.875 288.00
LOCATION L0012137     VOLUME   455336.114 3767587.767 288.00
LOCATION L0012138     VOLUME   455344.704 3767587.660 288.00
LOCATION L0012139     VOLUME   455353.293 3767587.552 288.00
LOCATION L0012140     VOLUME   455361.882 3767587.445 288.00
LOCATION L0012141     VOLUME   455370.472 3767587.338 288.00
LOCATION L0012142     VOLUME   455379.061 3767587.230 288.00
LOCATION L0012143     VOLUME   455387.650 3767587.123 288.00
LOCATION L0012144     VOLUME   455396.240 3767587.016 288.00
LOCATION L0012145     VOLUME   455404.829 3767586.908 288.00
LOCATION L0012146     VOLUME   455413.418 3767586.801 288.09
LOCATION L0012147     VOLUME   455422.008 3767586.694 288.28
LOCATION L0012148     VOLUME   455430.597 3767586.586 288.47
LOCATION L0012149     VOLUME   455439.186 3767586.479 288.66
LOCATION L0012150     VOLUME   455447.776 3767586.371 288.67
LOCATION L0012151     VOLUME   455456.365 3767586.264 288.66
LOCATION L0012152     VOLUME   455464.954 3767586.157 288.66
LOCATION L0012153     VOLUME   455473.544 3767586.049 288.66
LOCATION L0012154     VOLUME   455482.133 3767585.942 288.65
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LOCATION L0012155     VOLUME   455490.722 3767585.835 288.65
LOCATION L0012156     VOLUME   455499.312 3767585.727 288.65
LOCATION L0012157     VOLUME   455507.901 3767585.620 288.64
LOCATION L0012158     VOLUME   455516.490 3767585.512 288.64
LOCATION L0012159     VOLUME   455525.080 3767585.405 288.64
LOCATION L0012160     VOLUME   455533.669 3767585.323 288.63
LOCATION L0012161     VOLUME   455542.259 3767585.245 288.63
LOCATION L0012162     VOLUME   455550.848 3767585.168 288.63
LOCATION L0012163     VOLUME   455559.438 3767585.090 288.62
LOCATION L0012164     VOLUME   455568.028 3767585.013 288.73
LOCATION L0012165     VOLUME   455576.617 3767584.936 288.84
LOCATION L0012166     VOLUME   455585.207 3767584.858 288.94
LOCATION L0012167     VOLUME   455593.797 3767584.781 289.00
LOCATION L0012168     VOLUME   455602.386 3767584.704 289.00
LOCATION L0012169     VOLUME   455610.976 3767584.626 289.00
LOCATION L0012170     VOLUME   455619.566 3767584.549 289.00
LOCATION L0012171     VOLUME   455628.155 3767584.471 289.00
LOCATION L0012172     VOLUME   455636.745 3767584.394 289.00
LOCATION L0012173     VOLUME   455645.335 3767584.317 289.00
LOCATION L0012174     VOLUME   455653.924 3767584.239 289.00
LOCATION L0012175     VOLUME   455662.514 3767584.162 289.00
LOCATION L0012176     VOLUME   455671.104 3767584.084 289.00
LOCATION L0012177     VOLUME   455679.693 3767584.007 289.00
LOCATION L0012178     VOLUME   455688.283 3767583.930 289.17
LOCATION L0012179     VOLUME   455696.873 3767583.852 289.34
LOCATION L0012180     VOLUME   455705.462 3767583.775 289.50
LOCATION L0012181     VOLUME   455714.052 3767583.698 289.58
LOCATION L0012182     VOLUME   455722.641 3767583.620 289.58
LOCATION L0012183     VOLUME   455731.231 3767583.543 289.57
LOCATION L0012184     VOLUME   455739.821 3767583.465 289.57
LOCATION L0012185     VOLUME   455748.410 3767583.388 289.57
LOCATION L0012186     VOLUME   455757.000 3767583.311 289.57
LOCATION L0012187     VOLUME   455765.590 3767583.233 289.56
LOCATION L0012188     VOLUME   455774.179 3767583.156 289.71
LOCATION L0012189     VOLUME   455782.769 3767583.078 290.00
LOCATION L0012190     VOLUME   455791.359 3767583.001 290.28
LOCATION L0012191     VOLUME   455799.948 3767582.924 290.56
LOCATION L0012192     VOLUME   455808.538 3767582.846 290.68
LOCATION L0012193     VOLUME   455817.128 3767582.769 290.81
LOCATION L0012194     VOLUME   455825.717 3767582.692 290.94
LOCATION L0012195     VOLUME   455834.307 3767582.614 290.84
LOCATION L0012196     VOLUME   455842.897 3767582.537 290.56
LOCATION L0012197     VOLUME   455851.486 3767582.459 290.27
LOCATION L0012198     VOLUME   455860.076 3767582.382 290.01
LOCATION L0012199     VOLUME   455868.666 3767582.305 290.16
LOCATION L0012200     VOLUME   455877.255 3767582.401 290.32
LOCATION L0012201     VOLUME   455885.844 3767582.513 290.47
LOCATION L0012202     VOLUME   455894.433 3767582.624 290.62
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LOCATION L0012203     VOLUME   455903.023 3767582.736 290.75
LOCATION L0012204     VOLUME   455911.612 3767582.847 290.88
LOCATION L0012205     VOLUME   455920.201 3767582.959 291.00
LOCATION L0012206     VOLUME   455928.791 3767583.071 291.00
LOCATION L0012207     VOLUME   455937.380 3767583.182 291.00
LOCATION L0012208     VOLUME   455945.969 3767583.294 291.00
LOCATION L0012209     VOLUME   455954.558 3767583.405 291.09
LOCATION L0012210     VOLUME   455963.148 3767583.517 291.26
LOCATION L0012211     VOLUME   455971.737 3767583.628 291.43
LOCATION L0012212     VOLUME   455980.326 3767583.740 291.59
LOCATION L0012213     VOLUME   455988.915 3767583.851 291.71
LOCATION L0012214     VOLUME   455997.505 3767583.963 291.83
LOCATION L0012215     VOLUME   456006.094 3767584.075 291.95
LOCATION L0012216     VOLUME   456014.683 3767584.186 292.00
LOCATION L0012217     VOLUME   456023.273 3767584.298 292.00
LOCATION L0012218     VOLUME   456031.862 3767584.409 292.00
LOCATION L0012219     VOLUME   456040.451 3767584.521 292.03
LOCATION L0012220     VOLUME   456049.040 3767584.632 292.32
LOCATION L0012221     VOLUME   456057.630 3767584.744 292.60
LOCATION L0012222     VOLUME   456066.219 3767584.855 292.89
LOCATION L0012223     VOLUME   456074.808 3767584.967 293.00
LOCATION L0012224     VOLUME   456083.397 3767585.078 293.00
LOCATION L0012225     VOLUME   456091.987 3767585.190 293.00
LOCATION L0012226     VOLUME   456100.576 3767585.302 293.02
LOCATION L0012227     VOLUME   456109.165 3767585.399 293.20
LOCATION L0012228     VOLUME   456117.755 3767585.451 293.39
LOCATION L0012229     VOLUME   456126.345 3767585.503 293.57
LOCATION L0012230     VOLUME   456134.935 3767585.556 293.70
LOCATION L0012231     VOLUME   456143.525 3767585.608 293.81
LOCATION L0012232     VOLUME   456152.115 3767585.660 293.91
LOCATION L0012233     VOLUME   456160.704 3767585.712 293.99
LOCATION L0012234     VOLUME   456169.294 3767585.764 293.89
LOCATION L0012235     VOLUME   456177.884 3767585.816 293.79
LOCATION L0012236     VOLUME   456186.474 3767585.868 293.69
LOCATION L0012237     VOLUME   456195.064 3767585.920 293.65
LOCATION L0012238     VOLUME   456203.654 3767585.972 293.65
LOCATION L0012239     VOLUME   456212.244 3767586.025 293.66
LOCATION L0012240     VOLUME   456220.833 3767586.077 293.66
LOCATION L0012241     VOLUME   456229.423 3767586.129 293.66
LOCATION L0012242     VOLUME   456238.013 3767586.181 293.66
LOCATION L0012243     VOLUME   456246.603 3767586.233 293.66
LOCATION L0012244     VOLUME   456255.193 3767586.285 293.66
LOCATION L0012245     VOLUME   456263.783 3767586.337 293.67
LOCATION L0012246     VOLUME   456272.372 3767586.389 293.67
LOCATION L0012247     VOLUME   456280.962 3767586.442 293.69
LOCATION L0012248     VOLUME   456289.552 3767586.494 293.78
LOCATION L0012249     VOLUME   456298.142 3767586.546 293.88
LOCATION L0012250     VOLUME   456306.732 3767586.598 293.97
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   LOCATION L0012251     VOLUME   456315.322 3767586.650 294.00
   LOCATION L0012252     VOLUME   456323.911 3767586.702 294.00
   LOCATION L0012253     VOLUME   456332.501 3767586.754 294.00
   LOCATION L0012254     VOLUME   456341.091 3767586.806 294.03
   LOCATION L0012255     VOLUME   456349.681 3767586.859 294.23
   LOCATION L0012256     VOLUME   456358.271 3767586.911 294.43
   LOCATION L0012257     VOLUME   456366.861 3767586.963 294.63
   LOCATION L0012258     VOLUME   456375.451 3767587.015 294.75
   LOCATION L0012259     VOLUME   456384.040 3767587.067 294.84
   LOCATION L0012260     VOLUME   456392.630 3767587.119 294.93
   LOCATION L0012261     VOLUME   456401.220 3767587.171 295.00
   LOCATION L0012262     VOLUME   456409.810 3767587.223 295.00
   LOCATION L0012263     VOLUME   456418.400 3767587.276 295.00
   LOCATION L0012264     VOLUME   456426.989 3767587.358 295.00
   LOCATION L0012265     VOLUME   456435.561 3767587.902 295.14
   LOCATION L0012266     VOLUME   456444.134 3767588.447 295.36
   LOCATION L0012267     VOLUME   456452.707 3767588.992 295.58
   LOCATION L0012268     VOLUME   456461.279 3767589.536 295.77
   LOCATION L0012269     VOLUME   456469.852 3767590.081 295.79
   LOCATION L0012270     VOLUME   456478.425 3767590.626 295.81
   LOCATION L0012271     VOLUME   456486.998 3767591.170 295.83
** END OF LINE VOLUME SOURCE ID = SLINE25
** SOURCE PARAMETERS **
** LINE VOLUME SOURCE ID = SLINE1
   SRCPARAM L0010054     0.0000008778      3.49      4.00      3.25
   SRCPARAM L0010055     0.0000008778      3.49      4.00      3.25
   SRCPARAM L0010056     0.0000008778      3.49      4.00      3.25
   SRCPARAM L0010057     0.0000008778      3.49      4.00      3.25
   SRCPARAM L0010058     0.0000008778      3.49      4.00      3.25
   SRCPARAM L0010059     0.0000008778      3.49      4.00      3.25
   SRCPARAM L0010060     0.0000008778      3.49      4.00      3.25
   SRCPARAM L0010061     0.0000008778      3.49      4.00      3.25
   SRCPARAM L0010062     0.0000008778      3.49      4.00      3.25
   SRCPARAM L0010063     0.0000008778      3.49      4.00      3.25
   SRCPARAM L0010064     0.0000008778      3.49      4.00      3.25
   SRCPARAM L0010065     0.0000008778      3.49      4.00      3.25
   SRCPARAM L0010066     0.0000008778      3.49      4.00      3.25
   SRCPARAM L0010067     0.0000008778      3.49      4.00      3.25
   SRCPARAM L0010068     0.0000008778      3.49      4.00      3.25
   SRCPARAM L0010069     0.0000008778      3.49      4.00      3.25
   SRCPARAM L0010070     0.0000008778      3.49      4.00      3.25
   SRCPARAM L0010071     0.0000008778      3.49      4.00      3.25
   SRCPARAM L0010072     0.0000008778      3.49      4.00      3.25
   SRCPARAM L0010073     0.0000008778      3.49      4.00      3.25
   SRCPARAM L0010074     0.0000008778      3.49      4.00      3.25
   SRCPARAM L0010075     0.0000008778      3.49      4.00      3.25
   SRCPARAM L0010076     0.0000008778      3.49      4.00      3.25
   SRCPARAM L0010077     0.0000008778      3.49      4.00      3.25
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   SRCPARAM L0010078     0.0000008778      3.49      4.00      3.25
   SRCPARAM L0010079     0.0000008778      3.49      4.00      3.25
   SRCPARAM L0010080     0.0000008778      3.49      4.00      3.25
   SRCPARAM L0010081     0.0000008778      3.49      4.00      3.25
   SRCPARAM L0010082     0.0000008778      3.49      4.00      3.25
   SRCPARAM L0010083     0.0000008778      3.49      4.00      3.25
   SRCPARAM L0010084     0.0000008778      3.49      4.00      3.25
   SRCPARAM L0010085     0.0000008778      3.49      4.00      3.25
** ------------------------------------------------------------------
** LINE VOLUME SOURCE ID = SLINE2
   SRCPARAM L0010086     0.0000008046      3.49      4.00      3.25
   SRCPARAM L0010087     0.0000008046      3.49      4.00      3.25
   SRCPARAM L0010088     0.0000008046      3.49      4.00      3.25
   SRCPARAM L0010089     0.0000008046      3.49      4.00      3.25
   SRCPARAM L0010090     0.0000008046      3.49      4.00      3.25
   SRCPARAM L0010091     0.0000008046      3.49      4.00      3.25
   SRCPARAM L0010092     0.0000008046      3.49      4.00      3.25
   SRCPARAM L0010093     0.0000008046      3.49      4.00      3.25
   SRCPARAM L0010094     0.0000008046      3.49      4.00      3.25
   SRCPARAM L0010095     0.0000008046      3.49      4.00      3.25
   SRCPARAM L0010096     0.0000008046      3.49      4.00      3.25
   SRCPARAM L0010097     0.0000008046      3.49      4.00      3.25
   SRCPARAM L0010098     0.0000008046      3.49      4.00      3.25
   SRCPARAM L0010099     0.0000008046      3.49      4.00      3.25
   SRCPARAM L0010100     0.0000008046      3.49      4.00      3.25
   SRCPARAM L0010101     0.0000008046      3.49      4.00      3.25
   SRCPARAM L0010102     0.0000008046      3.49      4.00      3.25
   SRCPARAM L0010103     0.0000008046      3.49      4.00      3.25
   SRCPARAM L0010104     0.0000008046      3.49      4.00      3.25
   SRCPARAM L0010105     0.0000008046      3.49      4.00      3.25
   SRCPARAM L0010106     0.0000008046      3.49      4.00      3.25
   SRCPARAM L0010107     0.0000008046      3.49      4.00      3.25
   SRCPARAM L0010108     0.0000008046      3.49      4.00      3.25
   SRCPARAM L0010109     0.0000008046      3.49      4.00      3.25
   SRCPARAM L0010110     0.0000008046      3.49      4.00      3.25
   SRCPARAM L0010111     0.0000008046      3.49      4.00      3.25
** ------------------------------------------------------------------
** LINE VOLUME SOURCE ID = SLINE3
   SRCPARAM L0010112     0.0000005225      0.00      4.00      3.25
   SRCPARAM L0010113     0.0000005225      0.00      4.00      3.25
   SRCPARAM L0010114     0.0000005225      0.00      4.00      3.25
   SRCPARAM L0010115     0.0000005225      0.00      4.00      3.25
   SRCPARAM L0010116     0.0000005225      0.00      4.00      3.25
   SRCPARAM L0010117     0.0000005225      0.00      4.00      3.25
   SRCPARAM L0010118     0.0000005225      0.00      4.00      3.25
   SRCPARAM L0010119     0.0000005225      0.00      4.00      3.25
   SRCPARAM L0010120     0.0000005225      0.00      4.00      3.25
   SRCPARAM L0010121     0.0000005225      0.00      4.00      3.25
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   SRCPARAM L0010122     0.0000005225      0.00      4.00      3.25
   SRCPARAM L0010123     0.0000005225      0.00      4.00      3.25
   SRCPARAM L0010124     0.0000005225      0.00      4.00      3.25
   SRCPARAM L0010125     0.0000005225      0.00      4.00      3.25
   SRCPARAM L0010126     0.0000005225      0.00      4.00      3.25
   SRCPARAM L0010127     0.0000005225      0.00      4.00      3.25
   SRCPARAM L0010128     0.0000005225      0.00      4.00      3.25
   SRCPARAM L0010129     0.0000005225      0.00      4.00      3.25
   SRCPARAM L0010130     0.0000005225      0.00      4.00      3.25
   SRCPARAM L0010131     0.0000005225      0.00      4.00      3.25
   SRCPARAM L0010132     0.0000005225      0.00      4.00      3.25
   SRCPARAM L0010133     0.0000005225      0.00      4.00      3.25
   SRCPARAM L0010134     0.0000005225      0.00      4.00      3.25
   SRCPARAM L0010135     0.0000005225      0.00      4.00      3.25
   SRCPARAM L0010136     0.0000005225      0.00      4.00      3.25
   SRCPARAM L0010137     0.0000005225      0.00      4.00      3.25
   SRCPARAM L0010138     0.0000005225      0.00      4.00      3.25
   SRCPARAM L0010139     0.0000005225      0.00      4.00      3.25
   SRCPARAM L0010140     0.0000005225      0.00      4.00      3.25
   SRCPARAM L0010141     0.0000005225      0.00      4.00      3.25
   SRCPARAM L0010142     0.0000005225      0.00      4.00      3.25
   SRCPARAM L0010143     0.0000005225      0.00      4.00      3.25
   SRCPARAM L0010144     0.0000005225      0.00      4.00      3.25
   SRCPARAM L0010145     0.0000005225      0.00      4.00      3.25
   SRCPARAM L0010146     0.0000005225      0.00      4.00      3.25
   SRCPARAM L0010147     0.0000005225      0.00      4.00      3.25
   SRCPARAM L0010148     0.0000005225      0.00      4.00      3.25
   SRCPARAM L0010149     0.0000005225      0.00      4.00      3.25
   SRCPARAM L0010150     0.0000005225      0.00      4.00      3.25
   SRCPARAM L0010151     0.0000005225      0.00      4.00      3.25
   SRCPARAM L0010152     0.0000005225      0.00      4.00      3.25
   SRCPARAM L0010153     0.0000005225      0.00      4.00      3.25
   SRCPARAM L0010154     0.0000005225      0.00      4.00      3.25
   SRCPARAM L0010155     0.0000005225      0.00      4.00      3.25
   SRCPARAM L0010156     0.0000005225      0.00      4.00      3.25
   SRCPARAM L0010157     0.0000005225      0.00      4.00      3.25
   SRCPARAM L0010158     0.0000005225      0.00      4.00      3.25
   SRCPARAM L0010159     0.0000005225      0.00      4.00      3.25
   SRCPARAM L0010160     0.0000005225      0.00      4.00      3.25
   SRCPARAM L0010161     0.0000005225      0.00      4.00      3.25
   SRCPARAM L0010162     0.0000005225      0.00      4.00      3.25
   SRCPARAM L0010163     0.0000005225      0.00      4.00      3.25
** ------------------------------------------------------------------
** LINE VOLUME SOURCE ID = SLINE4
   SRCPARAM L0010164     0.0000003898      0.00      4.00      3.25
   SRCPARAM L0010165     0.0000003898      0.00      4.00      3.25
   SRCPARAM L0010166     0.0000003898      0.00      4.00      3.25
   SRCPARAM L0010167     0.0000003898      0.00      4.00      3.25
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SRCPARAM L0010168     0.0000003898      0.00      4.00      3.25
SRCPARAM L0010169     0.0000003898      0.00      4.00      3.25
SRCPARAM L0010170     0.0000003898      0.00      4.00      3.25
SRCPARAM L0010171     0.0000003898      0.00      4.00      3.25
SRCPARAM L0010172     0.0000003898      0.00      4.00      3.25
SRCPARAM L0010173     0.0000003898      0.00      4.00      3.25
SRCPARAM L0010174     0.0000003898      0.00      4.00      3.25
SRCPARAM L0010175     0.0000003898      0.00      4.00      3.25
SRCPARAM L0010176     0.0000003898      0.00      4.00      3.25
SRCPARAM L0010177     0.0000003898      0.00      4.00      3.25
SRCPARAM L0010178     0.0000003898      0.00      4.00      3.25
SRCPARAM L0010179     0.0000003898      0.00      4.00      3.25
SRCPARAM L0010180     0.0000003898      0.00      4.00      3.25
SRCPARAM L0010181     0.0000003898      0.00      4.00      3.25
SRCPARAM L0010182     0.0000003898      0.00      4.00      3.25
SRCPARAM L0010183     0.0000003898      0.00      4.00      3.25
SRCPARAM L0010184     0.0000003898      0.00      4.00      3.25
SRCPARAM L0010185     0.0000003898      0.00      4.00      3.25
SRCPARAM L0010186     0.0000003898      0.00      4.00      3.25
SRCPARAM L0010187     0.0000003898      0.00      4.00      3.25
SRCPARAM L0010188     0.0000003898      0.00      4.00      3.25
SRCPARAM L0010189     0.0000003898      0.00      4.00      3.25
SRCPARAM L0010190     0.0000003898      0.00      4.00      3.25
SRCPARAM L0010191     0.0000003898      0.00      4.00      3.25
SRCPARAM L0010192     0.0000003898      0.00      4.00      3.25
SRCPARAM L0010193     0.0000003898      0.00      4.00      3.25
SRCPARAM L0010194     0.0000003898      0.00      4.00      3.25
SRCPARAM L0010195     0.0000003898      0.00      4.00      3.25
SRCPARAM L0010196     0.0000003898      0.00      4.00      3.25
SRCPARAM L0010197     0.0000003898      0.00      4.00      3.25
SRCPARAM L0010198     0.0000003898      0.00      4.00      3.25
SRCPARAM L0010199     0.0000003898      0.00      4.00      3.25
SRCPARAM L0010200     0.0000003898      0.00      4.00      3.25
SRCPARAM L0010201     0.0000003898      0.00      4.00      3.25
SRCPARAM L0010202     0.0000003898      0.00      4.00      3.25
SRCPARAM L0010203     0.0000003898      0.00      4.00      3.25
SRCPARAM L0010204     0.0000003898      0.00      4.00      3.25
SRCPARAM L0010205     0.0000003898      0.00      4.00      3.25
SRCPARAM L0010206     0.0000003898      0.00      4.00      3.25
SRCPARAM L0010207     0.0000003898      0.00      4.00      3.25
SRCPARAM L0010208     0.0000003898      0.00      4.00      3.25
SRCPARAM L0010209     0.0000003898      0.00      4.00      3.25
SRCPARAM L0010210     0.0000003898      0.00      4.00      3.25
SRCPARAM L0010211     0.0000003898      0.00      4.00      3.25
SRCPARAM L0010212     0.0000003898      0.00      4.00      3.25
SRCPARAM L0010213     0.0000003898      0.00      4.00      3.25
SRCPARAM L0010214     0.0000003898      0.00      4.00      3.25
SRCPARAM L0010215     0.0000003898      0.00      4.00      3.25
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   SRCPARAM L0010216     0.0000003898      0.00      4.00      3.25
   SRCPARAM L0010217     0.0000003898      0.00      4.00      3.25
** ------------------------------------------------------------------
** LINE VOLUME SOURCE ID = SLINE5
   SRCPARAM L0010218     0.00000003976      3.49      4.00      3.25
   SRCPARAM L0010219     0.00000003976      3.49      4.00      3.25
   SRCPARAM L0010220     0.00000003976      3.49      4.00      3.25
   SRCPARAM L0010221     0.00000003976      3.49      4.00      3.25
   SRCPARAM L0010222     0.00000003976      3.49      4.00      3.25
   SRCPARAM L0010223     0.00000003976      3.49      4.00      3.25
   SRCPARAM L0010224     0.00000003976      3.49      4.00      3.25
   SRCPARAM L0010225     0.00000003976      3.49      4.00      3.25
   SRCPARAM L0010226     0.00000003976      3.49      4.00      3.25
   SRCPARAM L0010227     0.00000003976      3.49      4.00      3.25
   SRCPARAM L0010228     0.00000003976      3.49      4.00      3.25
   SRCPARAM L0010229     0.00000003976      3.49      4.00      3.25
   SRCPARAM L0010230     0.00000003976      3.49      4.00      3.25
   SRCPARAM L0010231     0.00000003976      3.49      4.00      3.25
   SRCPARAM L0010232     0.00000003976      3.49      4.00      3.25
   SRCPARAM L0010233     0.00000003976      3.49      4.00      3.25
   SRCPARAM L0010234     0.00000003976      3.49      4.00      3.25
   SRCPARAM L0010235     0.00000003976      3.49      4.00      3.25
   SRCPARAM L0010236     0.00000003976      3.49      4.00      3.25
   SRCPARAM L0010237     0.00000003976      3.49      4.00      3.25
   SRCPARAM L0010238     0.00000003976      3.49      4.00      3.25
   SRCPARAM L0010239     0.00000003976      3.49      4.00      3.25
   SRCPARAM L0010240     0.00000003976      3.49      4.00      3.25
   SRCPARAM L0010241     0.00000003976      3.49      4.00      3.25
   SRCPARAM L0010242     0.00000003976      3.49      4.00      3.25
   SRCPARAM L0010243     0.00000003976      3.49      4.00      3.25
   SRCPARAM L0010244     0.00000003976      3.49      4.00      3.25
   SRCPARAM L0010245     0.00000003976      3.49      4.00      3.25
   SRCPARAM L0010246     0.00000003976      3.49      4.00      3.25
   SRCPARAM L0010247     0.00000003976      3.49      4.00      3.25
   SRCPARAM L0010248     0.00000003976      3.49      4.00      3.25
   SRCPARAM L0010249     0.00000003976      3.49      4.00      3.25
   SRCPARAM L0010250     0.00000003976      3.49      4.00      3.25
   SRCPARAM L0010251     0.00000003976      3.49      4.00      3.25
** ------------------------------------------------------------------
** LINE VOLUME SOURCE ID = SLINE6
   SRCPARAM L0010252     0.00000003979      3.49      4.00      3.25
   SRCPARAM L0010253     0.00000003979      3.49      4.00      3.25
   SRCPARAM L0010254     0.00000003979      3.49      4.00      3.25
   SRCPARAM L0010255     0.00000003979      3.49      4.00      3.25
   SRCPARAM L0010256     0.00000003979      3.49      4.00      3.25
   SRCPARAM L0010257     0.00000003979      3.49      4.00      3.25
   SRCPARAM L0010258     0.00000003979      3.49      4.00      3.25
   SRCPARAM L0010259     0.00000003979      3.49      4.00      3.25
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   SRCPARAM L0010260     0.00000003979      3.49      4.00      3.25
   SRCPARAM L0010261     0.00000003979      3.49      4.00      3.25
   SRCPARAM L0010262     0.00000003979      3.49      4.00      3.25
   SRCPARAM L0010263     0.00000003979      3.49      4.00      3.25
   SRCPARAM L0010264     0.00000003979      3.49      4.00      3.25
   SRCPARAM L0010265     0.00000003979      3.49      4.00      3.25
   SRCPARAM L0010266     0.00000003979      3.49      4.00      3.25
   SRCPARAM L0010267     0.00000003979      3.49      4.00      3.25
   SRCPARAM L0010268     0.00000003979      3.49      4.00      3.25
   SRCPARAM L0010269     0.00000003979      3.49      4.00      3.25
   SRCPARAM L0010270     0.00000003979      3.49      4.00      3.25
   SRCPARAM L0010271     0.00000003979      3.49      4.00      3.25
   SRCPARAM L0010272     0.00000003979      3.49      4.00      3.25
   SRCPARAM L0010273     0.00000003979      3.49      4.00      3.25
   SRCPARAM L0010274     0.00000003979      3.49      4.00      3.25
   SRCPARAM L0010275     0.00000003979      3.49      4.00      3.25
   SRCPARAM L0010276     0.00000003979      3.49      4.00      3.25
   SRCPARAM L0010277     0.00000003979      3.49      4.00      3.25
   SRCPARAM L0010278     0.00000003979      3.49      4.00      3.25
   SRCPARAM L0010279     0.00000003979      3.49      4.00      3.25
   SRCPARAM L0010280     0.00000003979      3.49      4.00      3.25
   SRCPARAM L0010281     0.00000003979      3.49      4.00      3.25
   SRCPARAM L0010282     0.00000003979      3.49      4.00      3.25
   SRCPARAM L0010283     0.00000003979      3.49      4.00      3.25
   SRCPARAM L0010284     0.00000003979      3.49      4.00      3.25
   SRCPARAM L0010285     0.00000003979      3.49      4.00      3.25
** ------------------------------------------------------------------
** LINE VOLUME SOURCE ID = SLINE7
   SRCPARAM L0010286     0.0000001203      3.49      4.00      3.25
   SRCPARAM L0010287     0.0000001203      3.49      4.00      3.25
   SRCPARAM L0010288     0.0000001203      3.49      4.00      3.25
   SRCPARAM L0010289     0.0000001203      3.49      4.00      3.25
   SRCPARAM L0010290     0.0000001203      3.49      4.00      3.25
   SRCPARAM L0010291     0.0000001203      3.49      4.00      3.25
   SRCPARAM L0010292     0.0000001203      3.49      4.00      3.25
   SRCPARAM L0010293     0.0000001203      3.49      4.00      3.25
   SRCPARAM L0010294     0.0000001203      3.49      4.00      3.25
   SRCPARAM L0010295     0.0000001203      3.49      4.00      3.25
   SRCPARAM L0010296     0.0000001203      3.49      4.00      3.25
   SRCPARAM L0010297     0.0000001203      3.49      4.00      3.25
   SRCPARAM L0010298     0.0000001203      3.49      4.00      3.25
   SRCPARAM L0010299     0.0000001203      3.49      4.00      3.25
   SRCPARAM L0010300     0.0000001203      3.49      4.00      3.25
   SRCPARAM L0010301     0.0000001203      3.49      4.00      3.25
   SRCPARAM L0010302     0.0000001203      3.49      4.00      3.25
   SRCPARAM L0010303     0.0000001203      3.49      4.00      3.25
   SRCPARAM L0010304     0.0000001203      3.49      4.00      3.25
   SRCPARAM L0010305     0.0000001203      3.49      4.00      3.25
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SRCPARAM L0010306     0.0000001203      3.49      4.00      3.25
SRCPARAM L0010307     0.0000001203      3.49      4.00      3.25
SRCPARAM L0010308     0.0000001203      3.49      4.00      3.25
SRCPARAM L0010309     0.0000001203      3.49      4.00      3.25
SRCPARAM L0010310     0.0000001203      3.49      4.00      3.25
SRCPARAM L0010311     0.0000001203      3.49      4.00      3.25
SRCPARAM L0010312     0.0000001203      3.49      4.00      3.25
SRCPARAM L0010313     0.0000001203      3.49      4.00      3.25
SRCPARAM L0010314     0.0000001203      3.49      4.00      3.25
SRCPARAM L0010315     0.0000001203      3.49      4.00      3.25
SRCPARAM L0010316     0.0000001203      3.49      4.00      3.25
SRCPARAM L0010317     0.0000001203      3.49      4.00      3.25
SRCPARAM L0010318     0.0000001203      3.49      4.00      3.25
SRCPARAM L0010319     0.0000001203      3.49      4.00      3.25
SRCPARAM L0010320     0.0000001203      3.49      4.00      3.25
SRCPARAM L0010321     0.0000001203      3.49      4.00      3.25
SRCPARAM L0010322     0.0000001203      3.49      4.00      3.25
SRCPARAM L0010323     0.0000001203      3.49      4.00      3.25
SRCPARAM L0010324     0.0000001203      3.49      4.00      3.25
SRCPARAM L0010325     0.0000001203      3.49      4.00      3.25
SRCPARAM L0010326     0.0000001203      3.49      4.00      3.25
SRCPARAM L0010327     0.0000001203      3.49      4.00      3.25
SRCPARAM L0010328     0.0000001203      3.49      4.00      3.25
SRCPARAM L0010329     0.0000001203      3.49      4.00      3.25
SRCPARAM L0010330     0.0000001203      3.49      4.00      3.25
SRCPARAM L0010331     0.0000001203      3.49      4.00      3.25
SRCPARAM L0010332     0.0000001203      3.49      4.00      3.25
SRCPARAM L0010333     0.0000001203      3.49      4.00      3.25
SRCPARAM L0010334     0.0000001203      3.49      4.00      3.25
SRCPARAM L0010335     0.0000001203      3.49      4.00      3.25
SRCPARAM L0010336     0.0000001203      3.49      4.00      3.25
SRCPARAM L0010337     0.0000001203      3.49      4.00      3.25
SRCPARAM L0010338     0.0000001203      3.49      4.00      3.25
SRCPARAM L0010339     0.0000001203      3.49      4.00      3.25
SRCPARAM L0010340     0.0000001203      3.49      4.00      3.25
SRCPARAM L0010341     0.0000001203      3.49      4.00      3.25
SRCPARAM L0010342     0.0000001203      3.49      4.00      3.25
SRCPARAM L0010343     0.0000001203      3.49      4.00      3.25
SRCPARAM L0010344     0.0000001203      3.49      4.00      3.25
SRCPARAM L0010345     0.0000001203      3.49      4.00      3.25
SRCPARAM L0010346     0.0000001203      3.49      4.00      3.25
SRCPARAM L0010347     0.0000001203      3.49      4.00      3.25
SRCPARAM L0010348     0.0000001203      3.49      4.00      3.25
SRCPARAM L0010349     0.0000001203      3.49      4.00      3.25
SRCPARAM L0010350     0.0000001203      3.49      4.00      3.25
SRCPARAM L0010351     0.0000001203      3.49      4.00      3.25
SRCPARAM L0010352     0.0000001203      3.49      4.00      3.25
SRCPARAM L0010353     0.0000001203      3.49      4.00      3.25
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   SRCPARAM L0010354     0.0000001203      3.49      4.00      3.25
** ------------------------------------------------------------------
** LINE VOLUME SOURCE ID = SLINE8
   SRCPARAM L0010355     0.0000002044      3.49      4.00      3.25
   SRCPARAM L0010356     0.0000002044      3.49      4.00      3.25
   SRCPARAM L0010357     0.0000002044      3.49      4.00      3.25
   SRCPARAM L0010358     0.0000002044      3.49      4.00      3.25
   SRCPARAM L0010359     0.0000002044      3.49      4.00      3.25
   SRCPARAM L0010360     0.0000002044      3.49      4.00      3.25
   SRCPARAM L0010361     0.0000002044      3.49      4.00      3.25
   SRCPARAM L0010362     0.0000002044      3.49      4.00      3.25
   SRCPARAM L0010363     0.0000002044      3.49      4.00      3.25
   SRCPARAM L0010364     0.0000002044      3.49      4.00      3.25
   SRCPARAM L0010365     0.0000002044      3.49      4.00      3.25
   SRCPARAM L0010366     0.0000002044      3.49      4.00      3.25
   SRCPARAM L0010367     0.0000002044      3.49      4.00      3.25
   SRCPARAM L0010368     0.0000002044      3.49      4.00      3.25
   SRCPARAM L0010369     0.0000002044      3.49      4.00      3.25
   SRCPARAM L0010370     0.0000002044      3.49      4.00      3.25
   SRCPARAM L0010371     0.0000002044      3.49      4.00      3.25
   SRCPARAM L0010372     0.0000002044      3.49      4.00      3.25
   SRCPARAM L0010373     0.0000002044      3.49      4.00      3.25
   SRCPARAM L0010374     0.0000002044      3.49      4.00      3.25
   SRCPARAM L0010375     0.0000002044      3.49      4.00      3.25
   SRCPARAM L0010376     0.0000002044      3.49      4.00      3.25
   SRCPARAM L0010377     0.0000002044      3.49      4.00      3.25
** ------------------------------------------------------------------
** LINE VOLUME SOURCE ID = SLINE9
   SRCPARAM L0010378     0.00000004026      3.49      4.00      3.25
   SRCPARAM L0010379     0.00000004026      3.49      4.00      3.25
   SRCPARAM L0010380     0.00000004026      3.49      4.00      3.25
   SRCPARAM L0010381     0.00000004026      3.49      4.00      3.25
   SRCPARAM L0010382     0.00000004026      3.49      4.00      3.25
   SRCPARAM L0010383     0.00000004026      3.49      4.00      3.25
   SRCPARAM L0010384     0.00000004026      3.49      4.00      3.25
   SRCPARAM L0010385     0.00000004026      3.49      4.00      3.25
   SRCPARAM L0010386     0.00000004026      3.49      4.00      3.25
   SRCPARAM L0010387     0.00000004026      3.49      4.00      3.25
   SRCPARAM L0010388     0.00000004026      3.49      4.00      3.25
   SRCPARAM L0010389     0.00000004026      3.49      4.00      3.25
   SRCPARAM L0010390     0.00000004026      3.49      4.00      3.25
   SRCPARAM L0010391     0.00000004026      3.49      4.00      3.25
** ------------------------------------------------------------------
** LINE VOLUME SOURCE ID = SLINE10
   SRCPARAM L0010392     0.0000000797      3.49      4.00      3.25
   SRCPARAM L0010393     0.0000000797      3.49      4.00      3.25
   SRCPARAM L0010394     0.0000000797      3.49      4.00      3.25
   SRCPARAM L0010395     0.0000000797      3.49      4.00      3.25
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   SRCPARAM L0010396     0.0000000797      3.49      4.00      3.25
   SRCPARAM L0010397     0.0000000797      3.49      4.00      3.25
   SRCPARAM L0010398     0.0000000797      3.49      4.00      3.25
   SRCPARAM L0010399     0.0000000797      3.49      4.00      3.25
   SRCPARAM L0010400     0.0000000797      3.49      4.00      3.25
   SRCPARAM L0010401     0.0000000797      3.49      4.00      3.25
   SRCPARAM L0010402     0.0000000797      3.49      4.00      3.25
   SRCPARAM L0010403     0.0000000797      3.49      4.00      3.25
   SRCPARAM L0010404     0.0000000797      3.49      4.00      3.25
   SRCPARAM L0010405     0.0000000797      3.49      4.00      3.25
   SRCPARAM L0010406     0.0000000797      3.49      4.00      3.25
   SRCPARAM L0010407     0.0000000797      3.49      4.00      3.25
   SRCPARAM L0010408     0.0000000797      3.49      4.00      3.25
   SRCPARAM L0010409     0.0000000797      3.49      4.00      3.25
   SRCPARAM L0010410     0.0000000797      3.49      4.00      3.25
   SRCPARAM L0010411     0.0000000797      3.49      4.00      3.25
   SRCPARAM L0010412     0.0000000797      3.49      4.00      3.25
   SRCPARAM L0010413     0.0000000797      3.49      4.00      3.25
   SRCPARAM L0010414     0.0000000797      3.49      4.00      3.25
   SRCPARAM L0010415     0.0000000797      3.49      4.00      3.25
   SRCPARAM L0010416     0.0000000797      3.49      4.00      3.25
   SRCPARAM L0010417     0.0000000797      3.49      4.00      3.25
   SRCPARAM L0010418     0.0000000797      3.49      4.00      3.25
   SRCPARAM L0010419     0.0000000797      3.49      4.00      3.25
   SRCPARAM L0010420     0.0000000797      3.49      4.00      3.25
   SRCPARAM L0010421     0.0000000797      3.49      4.00      3.25
   SRCPARAM L0010422     0.0000000797      3.49      4.00      3.25
   SRCPARAM L0010423     0.0000000797      3.49      4.00      3.25
   SRCPARAM L0010424     0.0000000797      3.49      4.00      3.25
   SRCPARAM L0010425     0.0000000797      3.49      4.00      3.25
   SRCPARAM L0010426     0.0000000797      3.49      4.00      3.25
   SRCPARAM L0010427     0.0000000797      3.49      4.00      3.25
   SRCPARAM L0010428     0.0000000797      3.49      4.00      3.25
   SRCPARAM L0010429     0.0000000797      3.49      4.00      3.25
   SRCPARAM L0010430     0.0000000797      3.49      4.00      3.25
   SRCPARAM L0010431     0.0000000797      3.49      4.00      3.25
   SRCPARAM L0010432     0.0000000797      3.49      4.00      3.25
   SRCPARAM L0010433     0.0000000797      3.49      4.00      3.25
   SRCPARAM L0010434     0.0000000797      3.49      4.00      3.25
   SRCPARAM L0010435     0.0000000797      3.49      4.00      3.25
   SRCPARAM L0010436     0.0000000797      3.49      4.00      3.25
   SRCPARAM L0010437     0.0000000797      3.49      4.00      3.25
** ------------------------------------------------------------------
** LINE VOLUME SOURCE ID = SLINE11
   SRCPARAM L0010438     0.0000001045      3.49      7.44      3.25
   SRCPARAM L0010439     0.0000001045      3.49      7.44      3.25
   SRCPARAM L0010440     0.0000001045      3.49      7.44      3.25
   SRCPARAM L0010441     0.0000001045      3.49      7.44      3.25
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SRCPARAM L0010442     0.0000001045      3.49      7.44      3.25
SRCPARAM L0010443     0.0000001045      3.49      7.44      3.25
SRCPARAM L0010444     0.0000001045      3.49      7.44      3.25
SRCPARAM L0010445     0.0000001045      3.49      7.44      3.25
SRCPARAM L0010446     0.0000001045      3.49      7.44      3.25
SRCPARAM L0010447     0.0000001045      3.49      7.44      3.25
SRCPARAM L0010448     0.0000001045      3.49      7.44      3.25
SRCPARAM L0010449     0.0000001045      3.49      7.44      3.25
SRCPARAM L0010450     0.0000001045      3.49      7.44      3.25
SRCPARAM L0010451     0.0000001045      3.49      7.44      3.25
SRCPARAM L0010452     0.0000001045      3.49      7.44      3.25
SRCPARAM L0010453     0.0000001045      3.49      7.44      3.25
SRCPARAM L0010454     0.0000001045      3.49      7.44      3.25
SRCPARAM L0010455     0.0000001045      3.49      7.44      3.25
SRCPARAM L0010456     0.0000001045      3.49      7.44      3.25
SRCPARAM L0010457     0.0000001045      3.49      7.44      3.25
SRCPARAM L0010458     0.0000001045      3.49      7.44      3.25
SRCPARAM L0010459     0.0000001045      3.49      7.44      3.25
SRCPARAM L0010460     0.0000001045      3.49      7.44      3.25
SRCPARAM L0010461     0.0000001045      3.49      7.44      3.25
SRCPARAM L0010462     0.0000001045      3.49      7.44      3.25
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   SRCPARAM L0010753     0.0000002451      3.49      9.30      3.25
   SRCPARAM L0010754     0.0000002451      3.49      9.30      3.25
   SRCPARAM L0010755     0.0000002451      3.49      9.30      3.25
   SRCPARAM L0010756     0.0000002451      3.49      9.30      3.25
   SRCPARAM L0010757     0.0000002451      3.49      9.30      3.25
   SRCPARAM L0010758     0.0000002451      3.49      9.30      3.25
   SRCPARAM L0010759     0.0000002451      3.49      9.30      3.25
   SRCPARAM L0010760     0.0000002451      3.49      9.30      3.25
   SRCPARAM L0010761     0.0000002451      3.49      9.30      3.25
   SRCPARAM L0010762     0.0000002451      3.49      9.30      3.25
   SRCPARAM L0010763     0.0000002451      3.49      9.30      3.25
   SRCPARAM L0010764     0.0000002451      3.49      9.30      3.25
   SRCPARAM L0010765     0.0000002451      3.49      9.30      3.25
   SRCPARAM L0010766     0.0000002451      3.49      9.30      3.25
   SRCPARAM L0010767     0.0000002451      3.49      9.30      3.25
   SRCPARAM L0010768     0.0000002451      3.49      9.30      3.25
   SRCPARAM L0010769     0.0000002451      3.49      9.30      3.25
   SRCPARAM L0010770     0.0000002451      3.49      9.30      3.25
   SRCPARAM L0010771     0.0000002451      3.49      9.30      3.25
   SRCPARAM L0010772     0.0000002451      3.49      9.30      3.25
   SRCPARAM L0010773     0.0000002451      3.49      9.30      3.25
   SRCPARAM L0010774     0.0000002451      3.49      9.30      3.25
   SRCPARAM L0010775     0.0000002451      3.49      9.30      3.25
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   SRCPARAM L0010776     0.0000002451      3.49      9.30      3.25
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** LINE VOLUME SOURCE ID = SLINE13
   SRCPARAM L0010777     0.00000003202      3.49      4.00      3.25
   SRCPARAM L0010778     0.00000003202      3.49      4.00      3.25
   SRCPARAM L0010779     0.00000003202      3.49      4.00      3.25
   SRCPARAM L0010780     0.00000003202      3.49      4.00      3.25
   SRCPARAM L0010781     0.00000003202      3.49      4.00      3.25
   SRCPARAM L0010782     0.00000003202      3.49      4.00      3.25
   SRCPARAM L0010783     0.00000003202      3.49      4.00      3.25
   SRCPARAM L0010784     0.00000003202      3.49      4.00      3.25
   SRCPARAM L0010785     0.00000003202      3.49      4.00      3.25
   SRCPARAM L0010786     0.00000003202      3.49      4.00      3.25
   SRCPARAM L0010787     0.00000003202      3.49      4.00      3.25
   SRCPARAM L0010788     0.00000003202      3.49      4.00      3.25
   SRCPARAM L0010789     0.00000003202      3.49      4.00      3.25
   SRCPARAM L0010790     0.00000003202      3.49      4.00      3.25
   SRCPARAM L0010791     0.00000003202      3.49      4.00      3.25
   SRCPARAM L0010792     0.00000003202      3.49      4.00      3.25
   SRCPARAM L0010793     0.00000003202      3.49      4.00      3.25
   SRCPARAM L0010794     0.00000003202      3.49      4.00      3.25
   SRCPARAM L0010795     0.00000003202      3.49      4.00      3.25
   SRCPARAM L0010796     0.00000003202      3.49      4.00      3.25
   SRCPARAM L0010797     0.00000003202      3.49      4.00      3.25
   SRCPARAM L0010798     0.00000003202      3.49      4.00      3.25
   SRCPARAM L0010799     0.00000003202      3.49      4.00      3.25
   SRCPARAM L0010800     0.00000003202      3.49      4.00      3.25
   SRCPARAM L0010801     0.00000003202      3.49      4.00      3.25
   SRCPARAM L0010802     0.00000003202      3.49      4.00      3.25
   SRCPARAM L0010803     0.00000003202      3.49      4.00      3.25
   SRCPARAM L0010804     0.00000003202      3.49      4.00      3.25
   SRCPARAM L0010805     0.00000003202      3.49      4.00      3.25
   SRCPARAM L0010806     0.00000003202      3.49      4.00      3.25
   SRCPARAM L0010807     0.00000003202      3.49      4.00      3.25
   SRCPARAM L0010808     0.00000003202      3.49      4.00      3.25
   SRCPARAM L0010809     0.00000003202      3.49      4.00      3.25
   SRCPARAM L0010810     0.00000003202      3.49      4.00      3.25
   SRCPARAM L0010811     0.00000003202      3.49      4.00      3.25
   SRCPARAM L0010812     0.00000003202      3.49      4.00      3.25
   SRCPARAM L0010813     0.00000003202      3.49      4.00      3.25
   SRCPARAM L0010814     0.00000003202      3.49      4.00      3.25
   SRCPARAM L0010815     0.00000003202      3.49      4.00      3.25
   SRCPARAM L0010816     0.00000003202      3.49      4.00      3.25
   SRCPARAM L0010817     0.00000003202      3.49      4.00      3.25
   SRCPARAM L0010818     0.00000003202      3.49      4.00      3.25
   SRCPARAM L0010819     0.00000003202      3.49      4.00      3.25
   SRCPARAM L0010820     0.00000003202      3.49      4.00      3.25
   SRCPARAM L0010821     0.00000003202      3.49      4.00      3.25
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SRCPARAM L0010822     0.00000003202      3.49      4.00      3.25
SRCPARAM L0010823     0.00000003202      3.49      4.00      3.25
SRCPARAM L0010824     0.00000003202      3.49      4.00      3.25
SRCPARAM L0010825     0.00000003202      3.49      4.00      3.25
SRCPARAM L0010826     0.00000003202      3.49      4.00      3.25
SRCPARAM L0010827     0.00000003202      3.49      4.00      3.25
SRCPARAM L0010828     0.00000003202      3.49      4.00      3.25
SRCPARAM L0010829     0.00000003202      3.49      4.00      3.25
SRCPARAM L0010830     0.00000003202      3.49      4.00      3.25
SRCPARAM L0010831     0.00000003202      3.49      4.00      3.25
SRCPARAM L0010832     0.00000003202      3.49      4.00      3.25
SRCPARAM L0010833     0.00000003202      3.49      4.00      3.25
SRCPARAM L0010834     0.00000003202      3.49      4.00      3.25
SRCPARAM L0010835     0.00000003202      3.49      4.00      3.25
SRCPARAM L0010836     0.00000003202      3.49      4.00      3.25
SRCPARAM L0010837     0.00000003202      3.49      4.00      3.25
SRCPARAM L0010838     0.00000003202      3.49      4.00      3.25
SRCPARAM L0010839     0.00000003202      3.49      4.00      3.25
SRCPARAM L0010840     0.00000003202      3.49      4.00      3.25
SRCPARAM L0010841     0.00000003202      3.49      4.00      3.25
SRCPARAM L0010842     0.00000003202      3.49      4.00      3.25
SRCPARAM L0010843     0.00000003202      3.49      4.00      3.25
SRCPARAM L0010844     0.00000003202      3.49      4.00      3.25
SRCPARAM L0010845     0.00000003202      3.49      4.00      3.25
SRCPARAM L0010846     0.00000003202      3.49      4.00      3.25
SRCPARAM L0010847     0.00000003202      3.49      4.00      3.25
SRCPARAM L0010848     0.00000003202      3.49      4.00      3.25
SRCPARAM L0010849     0.00000003202      3.49      4.00      3.25
SRCPARAM L0010850     0.00000003202      3.49      4.00      3.25
SRCPARAM L0010851     0.00000003202      3.49      4.00      3.25
SRCPARAM L0010852     0.00000003202      3.49      4.00      3.25
SRCPARAM L0010853     0.00000003202      3.49      4.00      3.25
SRCPARAM L0010854     0.00000003202      3.49      4.00      3.25
SRCPARAM L0010855     0.00000003202      3.49      4.00      3.25
SRCPARAM L0010856     0.00000003202      3.49      4.00      3.25
SRCPARAM L0010857     0.00000003202      3.49      4.00      3.25
SRCPARAM L0010858     0.00000003202      3.49      4.00      3.25
SRCPARAM L0010859     0.00000003202      3.49      4.00      3.25
SRCPARAM L0010860     0.00000003202      3.49      4.00      3.25
SRCPARAM L0010861     0.00000003202      3.49      4.00      3.25
SRCPARAM L0010862     0.00000003202      3.49      4.00      3.25
SRCPARAM L0010863     0.00000003202      3.49      4.00      3.25
SRCPARAM L0010864     0.00000003202      3.49      4.00      3.25
SRCPARAM L0010865     0.00000003202      3.49      4.00      3.25
SRCPARAM L0010866     0.00000003202      3.49      4.00      3.25
SRCPARAM L0010867     0.00000003202      3.49      4.00      3.25
SRCPARAM L0010868     0.00000003202      3.49      4.00      3.25
SRCPARAM L0010869     0.00000003202      3.49      4.00      3.25
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   SRCPARAM L0010870     0.00000003202      3.49      4.00      3.25
   SRCPARAM L0010871     0.00000003202      3.49      4.00      3.25
   SRCPARAM L0010872     0.00000003202      3.49      4.00      3.25
   SRCPARAM L0010873     0.00000003202      3.49      4.00      3.25
   SRCPARAM L0010874     0.00000003202      3.49      4.00      3.25
   SRCPARAM L0010875     0.00000003202      3.49      4.00      3.25
   SRCPARAM L0010876     0.00000003202      3.49      4.00      3.25
   SRCPARAM L0010877     0.00000003202      3.49      4.00      3.25
   SRCPARAM L0010878     0.00000003202      3.49      4.00      3.25
   SRCPARAM L0010879     0.00000003202      3.49      4.00      3.25
   SRCPARAM L0010880     0.00000003202      3.49      4.00      3.25
   SRCPARAM L0010881     0.00000003202      3.49      4.00      3.25
   SRCPARAM L0010882     0.00000003202      3.49      4.00      3.25
   SRCPARAM L0010883     0.00000003202      3.49      4.00      3.25
   SRCPARAM L0010884     0.00000003202      3.49      4.00      3.25
   SRCPARAM L0010885     0.00000003202      3.49      4.00      3.25
   SRCPARAM L0010886     0.00000003202      3.49      4.00      3.25
   SRCPARAM L0010887     0.00000003202      3.49      4.00      3.25
   SRCPARAM L0010888     0.00000003202      3.49      4.00      3.25
   SRCPARAM L0010889     0.00000003202      3.49      4.00      3.25
   SRCPARAM L0010890     0.00000003202      3.49      4.00      3.25
   SRCPARAM L0010891     0.00000003202      3.49      4.00      3.25
   SRCPARAM L0010892     0.00000003202      3.49      4.00      3.25
   SRCPARAM L0010893     0.00000003202      3.49      4.00      3.25
   SRCPARAM L0010894     0.00000003202      3.49      4.00      3.25
   SRCPARAM L0010895     0.00000003202      3.49      4.00      3.25
   SRCPARAM L0010896     0.00000003202      3.49      4.00      3.25
   SRCPARAM L0010897     0.00000003202      3.49      4.00      3.25
   SRCPARAM L0010898     0.00000003202      3.49      4.00      3.25
   SRCPARAM L0010899     0.00000003202      3.49      4.00      3.25
   SRCPARAM L0010900     0.00000003202      3.49      4.00      3.25
   SRCPARAM L0010901     0.00000003202      3.49      4.00      3.25
   SRCPARAM L0010902     0.00000003202      3.49      4.00      3.25
   SRCPARAM L0010903     0.00000003202      3.49      4.00      3.25
   SRCPARAM L0010904     0.00000003202      3.49      4.00      3.25
   SRCPARAM L0010905     0.00000003202      3.49      4.00      3.25
   SRCPARAM L0010906     0.00000003202      3.49      4.00      3.25
   SRCPARAM L0010907     0.00000003202      3.49      4.00      3.25
   SRCPARAM L0010908     0.00000003202      3.49      4.00      3.25
   SRCPARAM L0010909     0.00000003202      3.49      4.00      3.25
   SRCPARAM L0010910     0.00000003202      3.49      4.00      3.25
   SRCPARAM L0010911     0.00000003202      3.49      4.00      3.25
   SRCPARAM L0010912     0.00000003202      3.49      4.00      3.25
   SRCPARAM L0010913     0.00000003202      3.49      4.00      3.25
   SRCPARAM L0010914     0.00000003202      3.49      4.00      3.25
   SRCPARAM L0010915     0.00000003202      3.49      4.00      3.25
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** LINE VOLUME SOURCE ID = SLINE14
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SRCPARAM L0010916     0.00000002001      3.49      4.00      3.25
SRCPARAM L0010917     0.00000002001      3.49      4.00      3.25
SRCPARAM L0010918     0.00000002001      3.49      4.00      3.25
SRCPARAM L0010919     0.00000002001      3.49      4.00      3.25
SRCPARAM L0010920     0.00000002001      3.49      4.00      3.25
SRCPARAM L0010921     0.00000002001      3.49      4.00      3.25
SRCPARAM L0010922     0.00000002001      3.49      4.00      3.25
SRCPARAM L0010923     0.00000002001      3.49      4.00      3.25
SRCPARAM L0010924     0.00000002001      3.49      4.00      3.25
SRCPARAM L0010925     0.00000002001      3.49      4.00      3.25
SRCPARAM L0010926     0.00000002001      3.49      4.00      3.25
SRCPARAM L0010927     0.00000002001      3.49      4.00      3.25
SRCPARAM L0010928     0.00000002001      3.49      4.00      3.25
SRCPARAM L0010929     0.00000002001      3.49      4.00      3.25
SRCPARAM L0010930     0.00000002001      3.49      4.00      3.25
SRCPARAM L0010931     0.00000002001      3.49      4.00      3.25
SRCPARAM L0010932     0.00000002001      3.49      4.00      3.25
SRCPARAM L0010933     0.00000002001      3.49      4.00      3.25
SRCPARAM L0010934     0.00000002001      3.49      4.00      3.25
SRCPARAM L0010935     0.00000002001      3.49      4.00      3.25
SRCPARAM L0010936     0.00000002001      3.49      4.00      3.25
SRCPARAM L0010937     0.00000002001      3.49      4.00      3.25
SRCPARAM L0010938     0.00000002001      3.49      4.00      3.25
SRCPARAM L0010939     0.00000002001      3.49      4.00      3.25
SRCPARAM L0010940     0.00000002001      3.49      4.00      3.25
SRCPARAM L0010941     0.00000002001      3.49      4.00      3.25
SRCPARAM L0010942     0.00000002001      3.49      4.00      3.25
SRCPARAM L0010943     0.00000002001      3.49      4.00      3.25
SRCPARAM L0010944     0.00000002001      3.49      4.00      3.25
SRCPARAM L0010945     0.00000002001      3.49      4.00      3.25
SRCPARAM L0010946     0.00000002001      3.49      4.00      3.25
SRCPARAM L0010947     0.00000002001      3.49      4.00      3.25
SRCPARAM L0010948     0.00000002001      3.49      4.00      3.25
SRCPARAM L0010949     0.00000002001      3.49      4.00      3.25
SRCPARAM L0010950     0.00000002001      3.49      4.00      3.25
SRCPARAM L0010951     0.00000002001      3.49      4.00      3.25
SRCPARAM L0010952     0.00000002001      3.49      4.00      3.25
SRCPARAM L0010953     0.00000002001      3.49      4.00      3.25
SRCPARAM L0010954     0.00000002001      3.49      4.00      3.25
SRCPARAM L0010955     0.00000002001      3.49      4.00      3.25
SRCPARAM L0010956     0.00000002001      3.49      4.00      3.25
SRCPARAM L0010957     0.00000002001      3.49      4.00      3.25
SRCPARAM L0010958     0.00000002001      3.49      4.00      3.25
SRCPARAM L0010959     0.00000002001      3.49      4.00      3.25
SRCPARAM L0010960     0.00000002001      3.49      4.00      3.25
SRCPARAM L0010961     0.00000002001      3.49      4.00      3.25
SRCPARAM L0010962     0.00000002001      3.49      4.00      3.25
SRCPARAM L0010963     0.00000002001      3.49      4.00      3.25
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SRCPARAM L0010964     0.00000002001      3.49      4.00      3.25
SRCPARAM L0010965     0.00000002001      3.49      4.00      3.25
SRCPARAM L0010966     0.00000002001      3.49      4.00      3.25
SRCPARAM L0010967     0.00000002001      3.49      4.00      3.25
SRCPARAM L0010968     0.00000002001      3.49      4.00      3.25
SRCPARAM L0010969     0.00000002001      3.49      4.00      3.25
SRCPARAM L0010970     0.00000002001      3.49      4.00      3.25
SRCPARAM L0010971     0.00000002001      3.49      4.00      3.25
SRCPARAM L0010972     0.00000002001      3.49      4.00      3.25
SRCPARAM L0010973     0.00000002001      3.49      4.00      3.25
SRCPARAM L0010974     0.00000002001      3.49      4.00      3.25
SRCPARAM L0010975     0.00000002001      3.49      4.00      3.25
SRCPARAM L0010976     0.00000002001      3.49      4.00      3.25
SRCPARAM L0010977     0.00000002001      3.49      4.00      3.25
SRCPARAM L0010978     0.00000002001      3.49      4.00      3.25
SRCPARAM L0010979     0.00000002001      3.49      4.00      3.25
SRCPARAM L0010980     0.00000002001      3.49      4.00      3.25
SRCPARAM L0010981     0.00000002001      3.49      4.00      3.25
SRCPARAM L0010982     0.00000002001      3.49      4.00      3.25
SRCPARAM L0010983     0.00000002001      3.49      4.00      3.25
SRCPARAM L0010984     0.00000002001      3.49      4.00      3.25
SRCPARAM L0010985     0.00000002001      3.49      4.00      3.25
SRCPARAM L0010986     0.00000002001      3.49      4.00      3.25
SRCPARAM L0010987     0.00000002001      3.49      4.00      3.25
SRCPARAM L0010988     0.00000002001      3.49      4.00      3.25
SRCPARAM L0010989     0.00000002001      3.49      4.00      3.25
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SRCPARAM L0010992     0.00000002001      3.49      4.00      3.25
SRCPARAM L0010993     0.00000002001      3.49      4.00      3.25
SRCPARAM L0010994     0.00000002001      3.49      4.00      3.25
SRCPARAM L0010995     0.00000002001      3.49      4.00      3.25
SRCPARAM L0010996     0.00000002001      3.49      4.00      3.25
SRCPARAM L0010997     0.00000002001      3.49      4.00      3.25
SRCPARAM L0010998     0.00000002001      3.49      4.00      3.25
SRCPARAM L0010999     0.00000002001      3.49      4.00      3.25
SRCPARAM L0011000     0.00000002001      3.49      4.00      3.25
SRCPARAM L0011001     0.00000002001      3.49      4.00      3.25
SRCPARAM L0011002     0.00000002001      3.49      4.00      3.25
SRCPARAM L0011003     0.00000002001      3.49      4.00      3.25
SRCPARAM L0011004     0.00000002001      3.49      4.00      3.25
SRCPARAM L0011005     0.00000002001      3.49      4.00      3.25
SRCPARAM L0011006     0.00000002001      3.49      4.00      3.25
SRCPARAM L0011007     0.00000002001      3.49      4.00      3.25
SRCPARAM L0011008     0.00000002001      3.49      4.00      3.25
SRCPARAM L0011009     0.00000002001      3.49      4.00      3.25
SRCPARAM L0011010     0.00000002001      3.49      4.00      3.25
SRCPARAM L0011011     0.00000002001      3.49      4.00      3.25
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   SRCPARAM L0011012     0.00000002001      3.49      4.00      3.25
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   SRCPARAM L0011017     0.00000002001      3.49      4.00      3.25
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   SRCPARAM L0011021     0.00000002001      3.49      4.00      3.25
   SRCPARAM L0011022     0.00000002001      3.49      4.00      3.25
   SRCPARAM L0011023     0.00000002001      3.49      4.00      3.25
   SRCPARAM L0011024     0.00000002001      3.49      4.00      3.25
   SRCPARAM L0011025     0.00000002001      3.49      4.00      3.25
   SRCPARAM L0011026     0.00000002001      3.49      4.00      3.25
   SRCPARAM L0011027     0.00000002001      3.49      4.00      3.25
   SRCPARAM L0011028     0.00000002001      3.49      4.00      3.25
   SRCPARAM L0011029     0.00000002001      3.49      4.00      3.25
   SRCPARAM L0011030     0.00000002001      3.49      4.00      3.25
   SRCPARAM L0011031     0.00000002001      3.49      4.00      3.25
   SRCPARAM L0011032     0.00000002001      3.49      4.00      3.25
   SRCPARAM L0011033     0.00000002001      3.49      4.00      3.25
   SRCPARAM L0011034     0.00000002001      3.49      4.00      3.25
   SRCPARAM L0011035     0.00000002001      3.49      4.00      3.25
   SRCPARAM L0011036     0.00000002001      3.49      4.00      3.25
   SRCPARAM L0011037     0.00000002001      3.49      4.00      3.25
   SRCPARAM L0011038     0.00000002001      3.49      4.00      3.25
   SRCPARAM L0011039     0.00000002001      3.49      4.00      3.25
   SRCPARAM L0011040     0.00000002001      3.49      4.00      3.25
   SRCPARAM L0011041     0.00000002001      3.49      4.00      3.25
   SRCPARAM L0011042     0.00000002001      3.49      4.00      3.25
   SRCPARAM L0011043     0.00000002001      3.49      4.00      3.25
   SRCPARAM L0011044     0.00000002001      3.49      4.00      3.25
   SRCPARAM L0011045     0.00000002001      3.49      4.00      3.25
   SRCPARAM L0011046     0.00000002001      3.49      4.00      3.25
   SRCPARAM L0011047     0.00000002001      3.49      4.00      3.25
   SRCPARAM L0011048     0.00000002001      3.49      4.00      3.25
   SRCPARAM L0011049     0.00000002001      3.49      4.00      3.25
   SRCPARAM L0011050     0.00000002001      3.49      4.00      3.25
   SRCPARAM L0011051     0.00000002001      3.49      4.00      3.25
   SRCPARAM L0011052     0.00000002001      3.49      4.00      3.25
   SRCPARAM L0011053     0.00000002001      3.49      4.00      3.25
   SRCPARAM L0011054     0.00000002001      3.49      4.00      3.25
** ------------------------------------------------------------------
** LINE VOLUME SOURCE ID = SLINE15
   SRCPARAM L0011055     0.00000002402      3.49      4.00      3.25
   SRCPARAM L0011056     0.00000002402      3.49      4.00      3.25
   SRCPARAM L0011057     0.00000002402      3.49      4.00      3.25
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SRCPARAM L0011058     0.00000002402      3.49      4.00      3.25
SRCPARAM L0011059     0.00000002402      3.49      4.00      3.25
SRCPARAM L0011060     0.00000002402      3.49      4.00      3.25
SRCPARAM L0011061     0.00000002402      3.49      4.00      3.25
SRCPARAM L0011062     0.00000002402      3.49      4.00      3.25
SRCPARAM L0011063     0.00000002402      3.49      4.00      3.25
SRCPARAM L0011064     0.00000002402      3.49      4.00      3.25
SRCPARAM L0011065     0.00000002402      3.49      4.00      3.25
SRCPARAM L0011066     0.00000002402      3.49      4.00      3.25
SRCPARAM L0011067     0.00000002402      3.49      4.00      3.25
SRCPARAM L0011068     0.00000002402      3.49      4.00      3.25
SRCPARAM L0011069     0.00000002402      3.49      4.00      3.25
SRCPARAM L0011070     0.00000002402      3.49      4.00      3.25
SRCPARAM L0011071     0.00000002402      3.49      4.00      3.25
SRCPARAM L0011072     0.00000002402      3.49      4.00      3.25
SRCPARAM L0011073     0.00000002402      3.49      4.00      3.25
SRCPARAM L0011074     0.00000002402      3.49      4.00      3.25
SRCPARAM L0011075     0.00000002402      3.49      4.00      3.25
SRCPARAM L0011076     0.00000002402      3.49      4.00      3.25
SRCPARAM L0011077     0.00000002402      3.49      4.00      3.25
SRCPARAM L0011078     0.00000002402      3.49      4.00      3.25
SRCPARAM L0011079     0.00000002402      3.49      4.00      3.25
SRCPARAM L0011080     0.00000002402      3.49      4.00      3.25
SRCPARAM L0011081     0.00000002402      3.49      4.00      3.25
SRCPARAM L0011082     0.00000002402      3.49      4.00      3.25
SRCPARAM L0011083     0.00000002402      3.49      4.00      3.25
SRCPARAM L0011084     0.00000002402      3.49      4.00      3.25
SRCPARAM L0011085     0.00000002402      3.49      4.00      3.25
SRCPARAM L0011086     0.00000002402      3.49      4.00      3.25
SRCPARAM L0011087     0.00000002402      3.49      4.00      3.25
SRCPARAM L0011088     0.00000002402      3.49      4.00      3.25
SRCPARAM L0011089     0.00000002402      3.49      4.00      3.25
SRCPARAM L0011090     0.00000002402      3.49      4.00      3.25
SRCPARAM L0011091     0.00000002402      3.49      4.00      3.25
SRCPARAM L0011092     0.00000002402      3.49      4.00      3.25
SRCPARAM L0011093     0.00000002402      3.49      4.00      3.25
SRCPARAM L0011094     0.00000002402      3.49      4.00      3.25
SRCPARAM L0011095     0.00000002402      3.49      4.00      3.25
SRCPARAM L0011096     0.00000002402      3.49      4.00      3.25
SRCPARAM L0011097     0.00000002402      3.49      4.00      3.25
SRCPARAM L0011098     0.00000002402      3.49      4.00      3.25
SRCPARAM L0011099     0.00000002402      3.49      4.00      3.25
SRCPARAM L0011100     0.00000002402      3.49      4.00      3.25
SRCPARAM L0011101     0.00000002402      3.49      4.00      3.25
SRCPARAM L0011102     0.00000002402      3.49      4.00      3.25
SRCPARAM L0011103     0.00000002402      3.49      4.00      3.25
SRCPARAM L0011104     0.00000002402      3.49      4.00      3.25
SRCPARAM L0011105     0.00000002402      3.49      4.00      3.25
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SRCPARAM L0011106     0.00000002402      3.49      4.00      3.25
SRCPARAM L0011107     0.00000002402      3.49      4.00      3.25
SRCPARAM L0011108     0.00000002402      3.49      4.00      3.25
SRCPARAM L0011109     0.00000002402      3.49      4.00      3.25
SRCPARAM L0011110     0.00000002402      3.49      4.00      3.25
SRCPARAM L0011111     0.00000002402      3.49      4.00      3.25
SRCPARAM L0011112     0.00000002402      3.49      4.00      3.25
SRCPARAM L0011113     0.00000002402      3.49      4.00      3.25
SRCPARAM L0011114     0.00000002402      3.49      4.00      3.25
SRCPARAM L0011115     0.00000002402      3.49      4.00      3.25
SRCPARAM L0011116     0.00000002402      3.49      4.00      3.25
SRCPARAM L0011117     0.00000002402      3.49      4.00      3.25
SRCPARAM L0011118     0.00000002402      3.49      4.00      3.25
SRCPARAM L0011119     0.00000002402      3.49      4.00      3.25
SRCPARAM L0011120     0.00000002402      3.49      4.00      3.25
SRCPARAM L0011121     0.00000002402      3.49      4.00      3.25
SRCPARAM L0011122     0.00000002402      3.49      4.00      3.25
SRCPARAM L0011123     0.00000002402      3.49      4.00      3.25
SRCPARAM L0011124     0.00000002402      3.49      4.00      3.25
SRCPARAM L0011125     0.00000002402      3.49      4.00      3.25
SRCPARAM L0011126     0.00000002402      3.49      4.00      3.25
SRCPARAM L0011127     0.00000002402      3.49      4.00      3.25
SRCPARAM L0011128     0.00000002402      3.49      4.00      3.25
SRCPARAM L0011129     0.00000002402      3.49      4.00      3.25
SRCPARAM L0011130     0.00000002402      3.49      4.00      3.25
SRCPARAM L0011131     0.00000002402      3.49      4.00      3.25
SRCPARAM L0011132     0.00000002402      3.49      4.00      3.25
SRCPARAM L0011133     0.00000002402      3.49      4.00      3.25
SRCPARAM L0011134     0.00000002402      3.49      4.00      3.25
SRCPARAM L0011135     0.00000002402      3.49      4.00      3.25
SRCPARAM L0011136     0.00000002402      3.49      4.00      3.25
SRCPARAM L0011137     0.00000002402      3.49      4.00      3.25
SRCPARAM L0011138     0.00000002402      3.49      4.00      3.25
SRCPARAM L0011139     0.00000002402      3.49      4.00      3.25
SRCPARAM L0011140     0.00000002402      3.49      4.00      3.25
SRCPARAM L0011141     0.00000002402      3.49      4.00      3.25
SRCPARAM L0011142     0.00000002402      3.49      4.00      3.25
SRCPARAM L0011143     0.00000002402      3.49      4.00      3.25
SRCPARAM L0011144     0.00000002402      3.49      4.00      3.25
SRCPARAM L0011145     0.00000002402      3.49      4.00      3.25
SRCPARAM L0011146     0.00000002402      3.49      4.00      3.25
SRCPARAM L0011147     0.00000002402      3.49      4.00      3.25
SRCPARAM L0011148     0.00000002402      3.49      4.00      3.25
SRCPARAM L0011149     0.00000002402      3.49      4.00      3.25
SRCPARAM L0011150     0.00000002402      3.49      4.00      3.25
SRCPARAM L0011151     0.00000002402      3.49      4.00      3.25
SRCPARAM L0011152     0.00000002402      3.49      4.00      3.25
SRCPARAM L0011153     0.00000002402      3.49      4.00      3.25
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   SRCPARAM L0011154     0.00000002402      3.49      4.00      3.25
   SRCPARAM L0011155     0.00000002402      3.49      4.00      3.25
   SRCPARAM L0011156     0.00000002402      3.49      4.00      3.25
   SRCPARAM L0011157     0.00000002402      3.49      4.00      3.25
   SRCPARAM L0011158     0.00000002402      3.49      4.00      3.25
   SRCPARAM L0011159     0.00000002402      3.49      4.00      3.25
   SRCPARAM L0011160     0.00000002402      3.49      4.00      3.25
   SRCPARAM L0011161     0.00000002402      3.49      4.00      3.25
   SRCPARAM L0011162     0.00000002402      3.49      4.00      3.25
   SRCPARAM L0011163     0.00000002402      3.49      4.00      3.25
   SRCPARAM L0011164     0.00000002402      3.49      4.00      3.25
   SRCPARAM L0011165     0.00000002402      3.49      4.00      3.25
   SRCPARAM L0011166     0.00000002402      3.49      4.00      3.25
   SRCPARAM L0011167     0.00000002402      3.49      4.00      3.25
   SRCPARAM L0011168     0.00000002402      3.49      4.00      3.25
   SRCPARAM L0011169     0.00000002402      3.49      4.00      3.25
   SRCPARAM L0011170     0.00000002402      3.49      4.00      3.25
   SRCPARAM L0011171     0.00000002402      3.49      4.00      3.25
   SRCPARAM L0011172     0.00000002402      3.49      4.00      3.25
   SRCPARAM L0011173     0.00000002402      3.49      4.00      3.25
   SRCPARAM L0011174     0.00000002402      3.49      4.00      3.25
   SRCPARAM L0011175     0.00000002402      3.49      4.00      3.25
   SRCPARAM L0011176     0.00000002402      3.49      4.00      3.25
   SRCPARAM L0011177     0.00000002402      3.49      4.00      3.25
   SRCPARAM L0011178     0.00000002402      3.49      4.00      3.25
   SRCPARAM L0011179     0.00000002402      3.49      4.00      3.25
   SRCPARAM L0011180     0.00000002402      3.49      4.00      3.25
   SRCPARAM L0011181     0.00000002402      3.49      4.00      3.25
   SRCPARAM L0011182     0.00000002402      3.49      4.00      3.25
   SRCPARAM L0011183     0.00000002402      3.49      4.00      3.25
   SRCPARAM L0011184     0.00000002402      3.49      4.00      3.25
   SRCPARAM L0011185     0.00000002402      3.49      4.00      3.25
   SRCPARAM L0011186     0.00000002402      3.49      4.00      3.25
   SRCPARAM L0011187     0.00000002402      3.49      4.00      3.25
   SRCPARAM L0011188     0.00000002402      3.49      4.00      3.25
   SRCPARAM L0011189     0.00000002402      3.49      4.00      3.25
   SRCPARAM L0011190     0.00000002402      3.49      4.00      3.25
   SRCPARAM L0011191     0.00000002402      3.49      4.00      3.25
   SRCPARAM L0011192     0.00000002402      3.49      4.00      3.25
   SRCPARAM L0011193     0.00000002402      3.49      4.00      3.25
** ------------------------------------------------------------------
** LINE VOLUME SOURCE ID = SLINE16
   SRCPARAM L0011194     0.00000007197      3.49      4.00      3.25
   SRCPARAM L0011195     0.00000007197      3.49      4.00      3.25
   SRCPARAM L0011196     0.00000007197      3.49      4.00      3.25
   SRCPARAM L0011197     0.00000007197      3.49      4.00      3.25
   SRCPARAM L0011198     0.00000007197      3.49      4.00      3.25
   SRCPARAM L0011199     0.00000007197      3.49      4.00      3.25
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SRCPARAM L0011200     0.00000007197      3.49      4.00      3.25
SRCPARAM L0011201     0.00000007197      3.49      4.00      3.25
SRCPARAM L0011202     0.00000007197      3.49      4.00      3.25
SRCPARAM L0011203     0.00000007197      3.49      4.00      3.25
SRCPARAM L0011204     0.00000007197      3.49      4.00      3.25
SRCPARAM L0011205     0.00000007197      3.49      4.00      3.25
SRCPARAM L0011206     0.00000007197      3.49      4.00      3.25
SRCPARAM L0011207     0.00000007197      3.49      4.00      3.25
SRCPARAM L0011208     0.00000007197      3.49      4.00      3.25
SRCPARAM L0011209     0.00000007197      3.49      4.00      3.25
SRCPARAM L0011210     0.00000007197      3.49      4.00      3.25
SRCPARAM L0011211     0.00000007197      3.49      4.00      3.25
SRCPARAM L0011212     0.00000007197      3.49      4.00      3.25
SRCPARAM L0011213     0.00000007197      3.49      4.00      3.25
SRCPARAM L0011214     0.00000007197      3.49      4.00      3.25
SRCPARAM L0011215     0.00000007197      3.49      4.00      3.25
SRCPARAM L0011216     0.00000007197      3.49      4.00      3.25
SRCPARAM L0011217     0.00000007197      3.49      4.00      3.25
SRCPARAM L0011218     0.00000007197      3.49      4.00      3.25
SRCPARAM L0011219     0.00000007197      3.49      4.00      3.25
SRCPARAM L0011220     0.00000007197      3.49      4.00      3.25
SRCPARAM L0011221     0.00000007197      3.49      4.00      3.25
SRCPARAM L0011222     0.00000007197      3.49      4.00      3.25
SRCPARAM L0011223     0.00000007197      3.49      4.00      3.25
SRCPARAM L0011224     0.00000007197      3.49      4.00      3.25
SRCPARAM L0011225     0.00000007197      3.49      4.00      3.25
SRCPARAM L0011226     0.00000007197      3.49      4.00      3.25
SRCPARAM L0011227     0.00000007197      3.49      4.00      3.25
SRCPARAM L0011228     0.00000007197      3.49      4.00      3.25
SRCPARAM L0011229     0.00000007197      3.49      4.00      3.25
SRCPARAM L0011230     0.00000007197      3.49      4.00      3.25
SRCPARAM L0011231     0.00000007197      3.49      4.00      3.25
SRCPARAM L0011232     0.00000007197      3.49      4.00      3.25
SRCPARAM L0011233     0.00000007197      3.49      4.00      3.25
SRCPARAM L0011234     0.00000007197      3.49      4.00      3.25
SRCPARAM L0011235     0.00000007197      3.49      4.00      3.25
SRCPARAM L0011236     0.00000007197      3.49      4.00      3.25
SRCPARAM L0011237     0.00000007197      3.49      4.00      3.25
SRCPARAM L0011238     0.00000007197      3.49      4.00      3.25
SRCPARAM L0011239     0.00000007197      3.49      4.00      3.25
SRCPARAM L0011240     0.00000007197      3.49      4.00      3.25
SRCPARAM L0011241     0.00000007197      3.49      4.00      3.25
SRCPARAM L0011242     0.00000007197      3.49      4.00      3.25
SRCPARAM L0011243     0.00000007197      3.49      4.00      3.25
SRCPARAM L0011244     0.00000007197      3.49      4.00      3.25
SRCPARAM L0011245     0.00000007197      3.49      4.00      3.25
SRCPARAM L0011246     0.00000007197      3.49      4.00      3.25
SRCPARAM L0011247     0.00000007197      3.49      4.00      3.25
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SRCPARAM L0011248     0.00000007197      3.49      4.00      3.25
SRCPARAM L0011249     0.00000007197      3.49      4.00      3.25
SRCPARAM L0011250     0.00000007197      3.49      4.00      3.25
SRCPARAM L0011251     0.00000007197      3.49      4.00      3.25
SRCPARAM L0011252     0.00000007197      3.49      4.00      3.25
SRCPARAM L0011253     0.00000007197      3.49      4.00      3.25
SRCPARAM L0011254     0.00000007197      3.49      4.00      3.25
SRCPARAM L0011255     0.00000007197      3.49      4.00      3.25
SRCPARAM L0011256     0.00000007197      3.49      4.00      3.25
SRCPARAM L0011257     0.00000007197      3.49      4.00      3.25
SRCPARAM L0011258     0.00000007197      3.49      4.00      3.25
SRCPARAM L0011259     0.00000007197      3.49      4.00      3.25
SRCPARAM L0011260     0.00000007197      3.49      4.00      3.25
SRCPARAM L0011261     0.00000007197      3.49      4.00      3.25
SRCPARAM L0011262     0.00000007197      3.49      4.00      3.25
SRCPARAM L0011263     0.00000007197      3.49      4.00      3.25
SRCPARAM L0011264     0.00000007197      3.49      4.00      3.25
SRCPARAM L0011265     0.00000007197      3.49      4.00      3.25
SRCPARAM L0011266     0.00000007197      3.49      4.00      3.25
SRCPARAM L0011267     0.00000007197      3.49      4.00      3.25
SRCPARAM L0011268     0.00000007197      3.49      4.00      3.25
SRCPARAM L0011269     0.00000007197      3.49      4.00      3.25
SRCPARAM L0011270     0.00000007197      3.49      4.00      3.25
SRCPARAM L0011271     0.00000007197      3.49      4.00      3.25
SRCPARAM L0011272     0.00000007197      3.49      4.00      3.25
SRCPARAM L0011273     0.00000007197      3.49      4.00      3.25
SRCPARAM L0011274     0.00000007197      3.49      4.00      3.25
SRCPARAM L0011275     0.00000007197      3.49      4.00      3.25
SRCPARAM L0011276     0.00000007197      3.49      4.00      3.25
SRCPARAM L0011277     0.00000007197      3.49      4.00      3.25
SRCPARAM L0011278     0.00000007197      3.49      4.00      3.25
SRCPARAM L0011279     0.00000007197      3.49      4.00      3.25
SRCPARAM L0011280     0.00000007197      3.49      4.00      3.25
SRCPARAM L0011281     0.00000007197      3.49      4.00      3.25
SRCPARAM L0011282     0.00000007197      3.49      4.00      3.25
SRCPARAM L0011283     0.00000007197      3.49      4.00      3.25
SRCPARAM L0011284     0.00000007197      3.49      4.00      3.25
SRCPARAM L0011285     0.00000007197      3.49      4.00      3.25
SRCPARAM L0011286     0.00000007197      3.49      4.00      3.25
SRCPARAM L0011287     0.00000007197      3.49      4.00      3.25
SRCPARAM L0011288     0.00000007197      3.49      4.00      3.25
SRCPARAM L0011289     0.00000007197      3.49      4.00      3.25
SRCPARAM L0011290     0.00000007197      3.49      4.00      3.25
SRCPARAM L0011291     0.00000007197      3.49      4.00      3.25
SRCPARAM L0011292     0.00000007197      3.49      4.00      3.25
SRCPARAM L0011293     0.00000007197      3.49      4.00      3.25
SRCPARAM L0011294     0.00000007197      3.49      4.00      3.25
SRCPARAM L0011295     0.00000007197      3.49      4.00      3.25
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SRCPARAM L0011296     0.00000007197      3.49      4.00      3.25
SRCPARAM L0011297     0.00000007197      3.49      4.00      3.25
SRCPARAM L0011298     0.00000007197      3.49      4.00      3.25
SRCPARAM L0011299     0.00000007197      3.49      4.00      3.25
SRCPARAM L0011300     0.00000007197      3.49      4.00      3.25
SRCPARAM L0011301     0.00000007197      3.49      4.00      3.25
SRCPARAM L0011302     0.00000007197      3.49      4.00      3.25
SRCPARAM L0011303     0.00000007197      3.49      4.00      3.25
SRCPARAM L0011304     0.00000007197      3.49      4.00      3.25
SRCPARAM L0011305     0.00000007197      3.49      4.00      3.25
SRCPARAM L0011306     0.00000007197      3.49      4.00      3.25
SRCPARAM L0011307     0.00000007197      3.49      4.00      3.25
SRCPARAM L0011308     0.00000007197      3.49      4.00      3.25
SRCPARAM L0011309     0.00000007197      3.49      4.00      3.25
SRCPARAM L0011310     0.00000007197      3.49      4.00      3.25
SRCPARAM L0011311     0.00000007197      3.49      4.00      3.25
SRCPARAM L0011312     0.00000007197      3.49      4.00      3.25
SRCPARAM L0011313     0.00000007197      3.49      4.00      3.25
SRCPARAM L0011314     0.00000007197      3.49      4.00      3.25
SRCPARAM L0011315     0.00000007197      3.49      4.00      3.25
SRCPARAM L0011316     0.00000007197      3.49      4.00      3.25
SRCPARAM L0011317     0.00000007197      3.49      4.00      3.25
SRCPARAM L0011318     0.00000007197      3.49      4.00      3.25
SRCPARAM L0011319     0.00000007197      3.49      4.00      3.25
SRCPARAM L0011320     0.00000007197      3.49      4.00      3.25
SRCPARAM L0011321     0.00000007197      3.49      4.00      3.25
SRCPARAM L0011322     0.00000007197      3.49      4.00      3.25
SRCPARAM L0011323     0.00000007197      3.49      4.00      3.25
SRCPARAM L0011324     0.00000007197      3.49      4.00      3.25
SRCPARAM L0011325     0.00000007197      3.49      4.00      3.25
SRCPARAM L0011326     0.00000007197      3.49      4.00      3.25
SRCPARAM L0011327     0.00000007197      3.49      4.00      3.25
SRCPARAM L0011328     0.00000007197      3.49      4.00      3.25
SRCPARAM L0011329     0.00000007197      3.49      4.00      3.25
SRCPARAM L0011330     0.00000007197      3.49      4.00      3.25
SRCPARAM L0011331     0.00000007197      3.49      4.00      3.25
SRCPARAM L0011332     0.00000007197      3.49      4.00      3.25
SRCPARAM L0011333     0.00000007197      3.49      4.00      3.25
SRCPARAM L0011334     0.00000007197      3.49      4.00      3.25
SRCPARAM L0011335     0.00000007197      3.49      4.00      3.25
SRCPARAM L0011336     0.00000007197      3.49      4.00      3.25
SRCPARAM L0011337     0.00000007197      3.49      4.00      3.25
SRCPARAM L0011338     0.00000007197      3.49      4.00      3.25
SRCPARAM L0011339     0.00000007197      3.49      4.00      3.25
SRCPARAM L0011340     0.00000007197      3.49      4.00      3.25
SRCPARAM L0011341     0.00000007197      3.49      4.00      3.25
SRCPARAM L0011342     0.00000007197      3.49      4.00      3.25
SRCPARAM L0011343     0.00000007197      3.49      4.00      3.25
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   SRCPARAM L0011344     0.00000007197      3.49      4.00      3.25
   SRCPARAM L0011345     0.00000007197      3.49      4.00      3.25
** ----------------------------------------------------------------
** LINE VOLUME SOURCE ID = SLINE17
   SRCPARAM L0011346     0.0000005636      3.49      9.30      3.25
   SRCPARAM L0011347     0.0000005636      3.49      9.30      3.25
   SRCPARAM L0011348     0.0000005636      3.49      9.30      3.25
   SRCPARAM L0011349     0.0000005636      3.49      9.30      3.25
   SRCPARAM L0011350     0.0000005636      3.49      9.30      3.25
   SRCPARAM L0011351     0.0000005636      3.49      9.30      3.25
   SRCPARAM L0011352     0.0000005636      3.49      9.30      3.25
   SRCPARAM L0011353     0.0000005636      3.49      9.30      3.25
   SRCPARAM L0011354     0.0000005636      3.49      9.30      3.25
   SRCPARAM L0011355     0.0000005636      3.49      9.30      3.25
   SRCPARAM L0011356     0.0000005636      3.49      9.30      3.25
   SRCPARAM L0011357     0.0000005636      3.49      9.30      3.25
   SRCPARAM L0011358     0.0000005636      3.49      9.30      3.25
   SRCPARAM L0011359     0.0000005636      3.49      9.30      3.25
   SRCPARAM L0011360     0.0000005636      3.49      9.30      3.25
   SRCPARAM L0011361     0.0000005636      3.49      9.30      3.25
   SRCPARAM L0011362     0.0000005636      3.49      9.30      3.25
   SRCPARAM L0011363     0.0000005636      3.49      9.30      3.25
   SRCPARAM L0011364     0.0000005636      3.49      9.30      3.25
   SRCPARAM L0011365     0.0000005636      3.49      9.30      3.25
   SRCPARAM L0011366     0.0000005636      3.49      9.30      3.25
   SRCPARAM L0011367     0.0000005636      3.49      9.30      3.25
   SRCPARAM L0011368     0.0000005636      3.49      9.30      3.25
   SRCPARAM L0011369     0.0000005636      3.49      9.30      3.25
   SRCPARAM L0011370     0.0000005636      3.49      9.30      3.25
   SRCPARAM L0011371     0.0000005636      3.49      9.30      3.25
   SRCPARAM L0011372     0.0000005636      3.49      9.30      3.25
   SRCPARAM L0011373     0.0000005636      3.49      9.30      3.25
   SRCPARAM L0011374     0.0000005636      3.49      9.30      3.25
   SRCPARAM L0011375     0.0000005636      3.49      9.30      3.25
   SRCPARAM L0011376     0.0000005636      3.49      9.30      3.25
   SRCPARAM L0011377     0.0000005636      3.49      9.30      3.25
   SRCPARAM L0011378     0.0000005636      3.49      9.30      3.25
   SRCPARAM L0011379     0.0000005636      3.49      9.30      3.25
   SRCPARAM L0011380     0.0000005636      3.49      9.30      3.25
   SRCPARAM L0011381     0.0000005636      3.49      9.30      3.25
   SRCPARAM L0011382     0.0000005636      3.49      9.30      3.25
   SRCPARAM L0011383     0.0000005636      3.49      9.30      3.25
   SRCPARAM L0011384     0.0000005636      3.49      9.30      3.25
   SRCPARAM L0011385     0.0000005636      3.49      9.30      3.25
   SRCPARAM L0011386     0.0000005636      3.49      9.30      3.25
   SRCPARAM L0011387     0.0000005636      3.49      9.30      3.25
   SRCPARAM L0011388     0.0000005636      3.49      9.30      3.25
   SRCPARAM L0011389     0.0000005636      3.49      9.30      3.25
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   SRCPARAM L0011390     0.0000005636      3.49      9.30      3.25
   SRCPARAM L0011391     0.0000005636      3.49      9.30      3.25
   SRCPARAM L0011392     0.0000005636      3.49      9.30      3.25
   SRCPARAM L0011393     0.0000005636      3.49      9.30      3.25
   SRCPARAM L0011394     0.0000005636      3.49      9.30      3.25
   SRCPARAM L0011395     0.0000005636      3.49      9.30      3.25
   SRCPARAM L0011396     0.0000005636      3.49      9.30      3.25
   SRCPARAM L0011397     0.0000005636      3.49      9.30      3.25
   SRCPARAM L0011398     0.0000005636      3.49      9.30      3.25
   SRCPARAM L0011399     0.0000005636      3.49      9.30      3.25
   SRCPARAM L0011400     0.0000005636      3.49      9.30      3.25
   SRCPARAM L0011401     0.0000005636      3.49      9.30      3.25
   SRCPARAM L0011402     0.0000005636      3.49      9.30      3.25
   SRCPARAM L0011403     0.0000005636      3.49      9.30      3.25
   SRCPARAM L0011404     0.0000005636      3.49      9.30      3.25
   SRCPARAM L0011405     0.0000005636      3.49      9.30      3.25
   SRCPARAM L0011406     0.0000005636      3.49      9.30      3.25
   SRCPARAM L0011407     0.0000005636      3.49      9.30      3.25
   SRCPARAM L0011408     0.0000005636      3.49      9.30      3.25
   SRCPARAM L0011409     0.0000005636      3.49      9.30      3.25
** ------------------------------------------------------------------
** LINE VOLUME SOURCE ID = SLINE18
   SRCPARAM L0011410     0.000000132       3.49      4.00      3.25
   SRCPARAM L0011411     0.000000132       3.49      4.00      3.25
   SRCPARAM L0011412     0.000000132       3.49      4.00      3.25
   SRCPARAM L0011413     0.000000132       3.49      4.00      3.25
   SRCPARAM L0011414     0.000000132       3.49      4.00      3.25
   SRCPARAM L0011415     0.000000132       3.49      4.00      3.25
   SRCPARAM L0011416     0.000000132       3.49      4.00      3.25
   SRCPARAM L0011417     0.000000132       3.49      4.00      3.25
   SRCPARAM L0011418     0.000000132       3.49      4.00      3.25
   SRCPARAM L0011419     0.000000132       3.49      4.00      3.25
   SRCPARAM L0011420     0.000000132       3.49      4.00      3.25
   SRCPARAM L0011421     0.000000132       3.49      4.00      3.25
   SRCPARAM L0011422     0.000000132       3.49      4.00      3.25
   SRCPARAM L0011423     0.000000132       3.49      4.00      3.25
   SRCPARAM L0011424     0.000000132       3.49      4.00      3.25
   SRCPARAM L0011425     0.000000132       3.49      4.00      3.25
   SRCPARAM L0011426     0.000000132       3.49      4.00      3.25
   SRCPARAM L0011427     0.000000132       3.49      4.00      3.25
   SRCPARAM L0011428     0.000000132       3.49      4.00      3.25
   SRCPARAM L0011429     0.000000132       3.49      4.00      3.25
   SRCPARAM L0011430     0.000000132       3.49      4.00      3.25
   SRCPARAM L0011431     0.000000132       3.49      4.00      3.25
   SRCPARAM L0011432     0.000000132       3.49      4.00      3.25
   SRCPARAM L0011433     0.000000132       3.49      4.00      3.25
   SRCPARAM L0011434     0.000000132       3.49      4.00      3.25
   SRCPARAM L0011435     0.000000132       3.49      4.00      3.25
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SRCPARAM L0011436     0.000000132      3.49      4.00      3.25
SRCPARAM L0011437     0.000000132      3.49      4.00      3.25
SRCPARAM L0011438     0.000000132      3.49      4.00      3.25
SRCPARAM L0011439     0.000000132      3.49      4.00      3.25
SRCPARAM L0011440     0.000000132      3.49      4.00      3.25
SRCPARAM L0011441     0.000000132      3.49      4.00      3.25
SRCPARAM L0011442     0.000000132      3.49      4.00      3.25
SRCPARAM L0011443     0.000000132      3.49      4.00      3.25
SRCPARAM L0011444     0.000000132      3.49      4.00      3.25
SRCPARAM L0011445     0.000000132      3.49      4.00      3.25
SRCPARAM L0011446     0.000000132      3.49      4.00      3.25
SRCPARAM L0011447     0.000000132      3.49      4.00      3.25
SRCPARAM L0011448     0.000000132      3.49      4.00      3.25
SRCPARAM L0011449     0.000000132      3.49      4.00      3.25
SRCPARAM L0011450     0.000000132      3.49      4.00      3.25
SRCPARAM L0011451     0.000000132      3.49      4.00      3.25
SRCPARAM L0011452     0.000000132      3.49      4.00      3.25
SRCPARAM L0011453     0.000000132      3.49      4.00      3.25
SRCPARAM L0011454     0.000000132      3.49      4.00      3.25
SRCPARAM L0011455     0.000000132      3.49      4.00      3.25
SRCPARAM L0011456     0.000000132      3.49      4.00      3.25
SRCPARAM L0011457     0.000000132      3.49      4.00      3.25
SRCPARAM L0011458     0.000000132      3.49      4.00      3.25
SRCPARAM L0011459     0.000000132      3.49      4.00      3.25
SRCPARAM L0011460     0.000000132      3.49      4.00      3.25
SRCPARAM L0011461     0.000000132      3.49      4.00      3.25
SRCPARAM L0011462     0.000000132      3.49      4.00      3.25
SRCPARAM L0011463     0.000000132      3.49      4.00      3.25
SRCPARAM L0011464     0.000000132      3.49      4.00      3.25
SRCPARAM L0011465     0.000000132      3.49      4.00      3.25
SRCPARAM L0011466     0.000000132      3.49      4.00      3.25
SRCPARAM L0011467     0.000000132      3.49      4.00      3.25
SRCPARAM L0011468     0.000000132      3.49      4.00      3.25
SRCPARAM L0011469     0.000000132      3.49      4.00      3.25
SRCPARAM L0011470     0.000000132      3.49      4.00      3.25
SRCPARAM L0011471     0.000000132      3.49      4.00      3.25
SRCPARAM L0011472     0.000000132      3.49      4.00      3.25
SRCPARAM L0011473     0.000000132      3.49      4.00      3.25
SRCPARAM L0011474     0.000000132      3.49      4.00      3.25
SRCPARAM L0011475     0.000000132      3.49      4.00      3.25
SRCPARAM L0011476     0.000000132      3.49      4.00      3.25
SRCPARAM L0011477     0.000000132      3.49      4.00      3.25
SRCPARAM L0011478     0.000000132      3.49      4.00      3.25
SRCPARAM L0011479     0.000000132      3.49      4.00      3.25
SRCPARAM L0011480     0.000000132      3.49      4.00      3.25
SRCPARAM L0011481     0.000000132      3.49      4.00      3.25
SRCPARAM L0011482     0.000000132      3.49      4.00      3.25
SRCPARAM L0011483     0.000000132      3.49      4.00      3.25
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   SRCPARAM L0011484     0.000000132      3.49      4.00      3.25
   SRCPARAM L0011485     0.000000132      3.49      4.00      3.25
   SRCPARAM L0011486     0.000000132      3.49      4.00      3.25
   SRCPARAM L0011487     0.000000132      3.49      4.00      3.25
   SRCPARAM L0011488     0.000000132      3.49      4.00      3.25
   SRCPARAM L0011489     0.000000132      3.49      4.00      3.25
   SRCPARAM L0011490     0.000000132      3.49      4.00      3.25
   SRCPARAM L0011491     0.000000132      3.49      4.00      3.25
   SRCPARAM L0011492     0.000000132      3.49      4.00      3.25
   SRCPARAM L0011493     0.000000132      3.49      4.00      3.25
   SRCPARAM L0011494     0.000000132      3.49      4.00      3.25
   SRCPARAM L0011495     0.000000132      3.49      4.00      3.25
   SRCPARAM L0011496     0.000000132      3.49      4.00      3.25
   SRCPARAM L0011497     0.000000132      3.49      4.00      3.25
   SRCPARAM L0011498     0.000000132      3.49      4.00      3.25
   SRCPARAM L0011499     0.000000132      3.49      4.00      3.25
   SRCPARAM L0011500     0.000000132      3.49      4.00      3.25
   SRCPARAM L0011501     0.000000132      3.49      4.00      3.25
   SRCPARAM L0011502     0.000000132      3.49      4.00      3.25
   SRCPARAM L0011503     0.000000132      3.49      4.00      3.25
   SRCPARAM L0011504     0.000000132      3.49      4.00      3.25
   SRCPARAM L0011505     0.000000132      3.49      4.00      3.25
   SRCPARAM L0011506     0.000000132      3.49      4.00      3.25
   SRCPARAM L0011507     0.000000132      3.49      4.00      3.25
** ------------------------------------------------------------------
** LINE VOLUME SOURCE ID = SLINE19
   SRCPARAM L0011508     0.0000001117      3.49      4.00      3.25
   SRCPARAM L0011509     0.0000001117      3.49      4.00      3.25
   SRCPARAM L0011510     0.0000001117      3.49      4.00      3.25
   SRCPARAM L0011511     0.0000001117      3.49      4.00      3.25
   SRCPARAM L0011512     0.0000001117      3.49      4.00      3.25
   SRCPARAM L0011513     0.0000001117      3.49      4.00      3.25
   SRCPARAM L0011514     0.0000001117      3.49      4.00      3.25
   SRCPARAM L0011515     0.0000001117      3.49      4.00      3.25
   SRCPARAM L0011516     0.0000001117      3.49      4.00      3.25
   SRCPARAM L0011517     0.0000001117      3.49      4.00      3.25
   SRCPARAM L0011518     0.0000001117      3.49      4.00      3.25
   SRCPARAM L0011519     0.0000001117      3.49      4.00      3.25
   SRCPARAM L0011520     0.0000001117      3.49      4.00      3.25
   SRCPARAM L0011521     0.0000001117      3.49      4.00      3.25
   SRCPARAM L0011522     0.0000001117      3.49      4.00      3.25
   SRCPARAM L0011523     0.0000001117      3.49      4.00      3.25
   SRCPARAM L0011524     0.0000001117      3.49      4.00      3.25
   SRCPARAM L0011525     0.0000001117      3.49      4.00      3.25
   SRCPARAM L0011526     0.0000001117      3.49      4.00      3.25
   SRCPARAM L0011527     0.0000001117      3.49      4.00      3.25
   SRCPARAM L0011528     0.0000001117      3.49      4.00      3.25
   SRCPARAM L0011529     0.0000001117      3.49      4.00      3.25
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SRCPARAM L0011530     0.0000001117      3.49      4.00      3.25
SRCPARAM L0011531     0.0000001117      3.49      4.00      3.25
SRCPARAM L0011532     0.0000001117      3.49      4.00      3.25
SRCPARAM L0011533     0.0000001117      3.49      4.00      3.25
SRCPARAM L0011534     0.0000001117      3.49      4.00      3.25
SRCPARAM L0011535     0.0000001117      3.49      4.00      3.25
SRCPARAM L0011536     0.0000001117      3.49      4.00      3.25
SRCPARAM L0011537     0.0000001117      3.49      4.00      3.25
SRCPARAM L0011538     0.0000001117      3.49      4.00      3.25
SRCPARAM L0011539     0.0000001117      3.49      4.00      3.25
SRCPARAM L0011540     0.0000001117      3.49      4.00      3.25
SRCPARAM L0011541     0.0000001117      3.49      4.00      3.25
SRCPARAM L0011542     0.0000001117      3.49      4.00      3.25
SRCPARAM L0011543     0.0000001117      3.49      4.00      3.25
SRCPARAM L0011544     0.0000001117      3.49      4.00      3.25
SRCPARAM L0011545     0.0000001117      3.49      4.00      3.25
SRCPARAM L0011546     0.0000001117      3.49      4.00      3.25
SRCPARAM L0011547     0.0000001117      3.49      4.00      3.25
SRCPARAM L0011548     0.0000001117      3.49      4.00      3.25
SRCPARAM L0011549     0.0000001117      3.49      4.00      3.25
SRCPARAM L0011550     0.0000001117      3.49      4.00      3.25
SRCPARAM L0011551     0.0000001117      3.49      4.00      3.25
SRCPARAM L0011552     0.0000001117      3.49      4.00      3.25
SRCPARAM L0011553     0.0000001117      3.49      4.00      3.25
SRCPARAM L0011554     0.0000001117      3.49      4.00      3.25
SRCPARAM L0011555     0.0000001117      3.49      4.00      3.25
SRCPARAM L0011556     0.0000001117      3.49      4.00      3.25
SRCPARAM L0011557     0.0000001117      3.49      4.00      3.25
SRCPARAM L0011558     0.0000001117      3.49      4.00      3.25
SRCPARAM L0011559     0.0000001117      3.49      4.00      3.25
SRCPARAM L0011560     0.0000001117      3.49      4.00      3.25
SRCPARAM L0011561     0.0000001117      3.49      4.00      3.25
SRCPARAM L0011562     0.0000001117      3.49      4.00      3.25
SRCPARAM L0011563     0.0000001117      3.49      4.00      3.25
SRCPARAM L0011564     0.0000001117      3.49      4.00      3.25
SRCPARAM L0011565     0.0000001117      3.49      4.00      3.25
SRCPARAM L0011566     0.0000001117      3.49      4.00      3.25
SRCPARAM L0011567     0.0000001117      3.49      4.00      3.25
SRCPARAM L0011568     0.0000001117      3.49      4.00      3.25
SRCPARAM L0011569     0.0000001117      3.49      4.00      3.25
SRCPARAM L0011570     0.0000001117      3.49      4.00      3.25
SRCPARAM L0011571     0.0000001117      3.49      4.00      3.25
SRCPARAM L0011572     0.0000001117      3.49      4.00      3.25
SRCPARAM L0011573     0.0000001117      3.49      4.00      3.25
SRCPARAM L0011574     0.0000001117      3.49      4.00      3.25
SRCPARAM L0011575     0.0000001117      3.49      4.00      3.25
SRCPARAM L0011576     0.0000001117      3.49      4.00      3.25
SRCPARAM L0011577     0.0000001117      3.49      4.00      3.25
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   SRCPARAM L0011578     0.0000001117      3.49      4.00      3.25
   SRCPARAM L0011579     0.0000001117      3.49      4.00      3.25
   SRCPARAM L0011580     0.0000001117      3.49      4.00      3.25
   SRCPARAM L0011581     0.0000001117      3.49      4.00      3.25
   SRCPARAM L0011582     0.0000001117      3.49      4.00      3.25
   SRCPARAM L0011583     0.0000001117      3.49      4.00      3.25
   SRCPARAM L0011584     0.0000001117      3.49      4.00      3.25
   SRCPARAM L0011585     0.0000001117      3.49      4.00      3.25
   SRCPARAM L0011586     0.0000001117      3.49      4.00      3.25
   SRCPARAM L0011587     0.0000001117      3.49      4.00      3.25
   SRCPARAM L0011588     0.0000001117      3.49      4.00      3.25
   SRCPARAM L0011589     0.0000001117      3.49      4.00      3.25
   SRCPARAM L0011590     0.0000001117      3.49      4.00      3.25
   SRCPARAM L0011591     0.0000001117      3.49      4.00      3.25
   SRCPARAM L0011592     0.0000001117      3.49      4.00      3.25
   SRCPARAM L0011593     0.0000001117      3.49      4.00      3.25
   SRCPARAM L0011594     0.0000001117      3.49      4.00      3.25
   SRCPARAM L0011595     0.0000001117      3.49      4.00      3.25
   SRCPARAM L0011596     0.0000001117      3.49      4.00      3.25
   SRCPARAM L0011597     0.0000001117      3.49      4.00      3.25
   SRCPARAM L0011598     0.0000001117      3.49      4.00      3.25
   SRCPARAM L0011599     0.0000001117      3.49      4.00      3.25
   SRCPARAM L0011600     0.0000001117      3.49      4.00      3.25
** ------------------------------------------------------------------
** LINE VOLUME SOURCE ID = SLINE20
   SRCPARAM L0011601     0.00000008789      3.49      4.00      3.25
   SRCPARAM L0011602     0.00000008789      3.49      4.00      3.25
   SRCPARAM L0011603     0.00000008789      3.49      4.00      3.25
   SRCPARAM L0011604     0.00000008789      3.49      4.00      3.25
   SRCPARAM L0011605     0.00000008789      3.49      4.00      3.25
   SRCPARAM L0011606     0.00000008789      3.49      4.00      3.25
   SRCPARAM L0011607     0.00000008789      3.49      4.00      3.25
   SRCPARAM L0011608     0.00000008789      3.49      4.00      3.25
   SRCPARAM L0011609     0.00000008789      3.49      4.00      3.25
   SRCPARAM L0011610     0.00000008789      3.49      4.00      3.25
   SRCPARAM L0011611     0.00000008789      3.49      4.00      3.25
   SRCPARAM L0011612     0.00000008789      3.49      4.00      3.25
   SRCPARAM L0011613     0.00000008789      3.49      4.00      3.25
   SRCPARAM L0011614     0.00000008789      3.49      4.00      3.25
   SRCPARAM L0011615     0.00000008789      3.49      4.00      3.25
   SRCPARAM L0011616     0.00000008789      3.49      4.00      3.25
   SRCPARAM L0011617     0.00000008789      3.49      4.00      3.25
   SRCPARAM L0011618     0.00000008789      3.49      4.00      3.25
   SRCPARAM L0011619     0.00000008789      3.49      4.00      3.25
   SRCPARAM L0011620     0.00000008789      3.49      4.00      3.25
   SRCPARAM L0011621     0.00000008789      3.49      4.00      3.25
   SRCPARAM L0011622     0.00000008789      3.49      4.00      3.25
   SRCPARAM L0011623     0.00000008789      3.49      4.00      3.25
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   SRCPARAM L0011624     0.00000008789      3.49      4.00      3.25
   SRCPARAM L0011625     0.00000008789      3.49      4.00      3.25
   SRCPARAM L0011626     0.00000008789      3.49      4.00      3.25
   SRCPARAM L0011627     0.00000008789      3.49      4.00      3.25
   SRCPARAM L0011628     0.00000008789      3.49      4.00      3.25
   SRCPARAM L0011629     0.00000008789      3.49      4.00      3.25
   SRCPARAM L0011630     0.00000008789      3.49      4.00      3.25
   SRCPARAM L0011631     0.00000008789      3.49      4.00      3.25
   SRCPARAM L0011632     0.00000008789      3.49      4.00      3.25
   SRCPARAM L0011633     0.00000008789      3.49      4.00      3.25
   SRCPARAM L0011634     0.00000008789      3.49      4.00      3.25
   SRCPARAM L0011635     0.00000008789      3.49      4.00      3.25
   SRCPARAM L0011636     0.00000008789      3.49      4.00      3.25
   SRCPARAM L0011637     0.00000008789      3.49      4.00      3.25
   SRCPARAM L0011638     0.00000008789      3.49      4.00      3.25
   SRCPARAM L0011639     0.00000008789      3.49      4.00      3.25
   SRCPARAM L0011640     0.00000008789      3.49      4.00      3.25
   SRCPARAM L0011641     0.00000008789      3.49      4.00      3.25
   SRCPARAM L0011642     0.00000008789      3.49      4.00      3.25
   SRCPARAM L0011643     0.00000008789      3.49      4.00      3.25
   SRCPARAM L0011644     0.00000008789      3.49      4.00      3.25
   SRCPARAM L0011645     0.00000008789      3.49      4.00      3.25
   SRCPARAM L0011646     0.00000008789      3.49      4.00      3.25
   SRCPARAM L0011647     0.00000008789      3.49      4.00      3.25
   SRCPARAM L0011648     0.00000008789      3.49      4.00      3.25
   SRCPARAM L0011649     0.00000008789      3.49      4.00      3.25
   SRCPARAM L0011650     0.00000008789      3.49      4.00      3.25
   SRCPARAM L0011651     0.00000008789      3.49      4.00      3.25
   SRCPARAM L0011652     0.00000008789      3.49      4.00      3.25
   SRCPARAM L0011653     0.00000008789      3.49      4.00      3.25
   SRCPARAM L0011654     0.00000008789      3.49      4.00      3.25
   SRCPARAM L0011655     0.00000008789      3.49      4.00      3.25
   SRCPARAM L0011656     0.00000008789      3.49      4.00      3.25
   SRCPARAM L0011657     0.00000008789      3.49      4.00      3.25
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** LINE VOLUME SOURCE ID = SLINE21
   SRCPARAM L0011658     0.0000001082      3.49      4.00      3.25
   SRCPARAM L0011659     0.0000001082      3.49      4.00      3.25
   SRCPARAM L0011660     0.0000001082      3.49      4.00      3.25
   SRCPARAM L0011661     0.0000001082      3.49      4.00      3.25
   SRCPARAM L0011662     0.0000001082      3.49      4.00      3.25
   SRCPARAM L0011663     0.0000001082      3.49      4.00      3.25
   SRCPARAM L0011664     0.0000001082      3.49      4.00      3.25
   SRCPARAM L0011665     0.0000001082      3.49      4.00      3.25
   SRCPARAM L0011666     0.0000001082      3.49      4.00      3.25
   SRCPARAM L0011667     0.0000001082      3.49      4.00      3.25
   SRCPARAM L0011668     0.0000001082      3.49      4.00      3.25
   SRCPARAM L0011669     0.0000001082      3.49      4.00      3.25
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SRCPARAM L0011670     0.0000001082      3.49      4.00      3.25
SRCPARAM L0011671     0.0000001082      3.49      4.00      3.25
SRCPARAM L0011672     0.0000001082      3.49      4.00      3.25
SRCPARAM L0011673     0.0000001082      3.49      4.00      3.25
SRCPARAM L0011674     0.0000001082      3.49      4.00      3.25
SRCPARAM L0011675     0.0000001082      3.49      4.00      3.25
SRCPARAM L0011676     0.0000001082      3.49      4.00      3.25
SRCPARAM L0011677     0.0000001082      3.49      4.00      3.25
SRCPARAM L0011678     0.0000001082      3.49      4.00      3.25
SRCPARAM L0011679     0.0000001082      3.49      4.00      3.25
SRCPARAM L0011680     0.0000001082      3.49      4.00      3.25
SRCPARAM L0011681     0.0000001082      3.49      4.00      3.25
SRCPARAM L0011682     0.0000001082      3.49      4.00      3.25
SRCPARAM L0011683     0.0000001082      3.49      4.00      3.25
SRCPARAM L0011684     0.0000001082      3.49      4.00      3.25
SRCPARAM L0011685     0.0000001082      3.49      4.00      3.25
SRCPARAM L0011686     0.0000001082      3.49      4.00      3.25
SRCPARAM L0011687     0.0000001082      3.49      4.00      3.25
SRCPARAM L0011688     0.0000001082      3.49      4.00      3.25
SRCPARAM L0011689     0.0000001082      3.49      4.00      3.25
SRCPARAM L0011690     0.0000001082      3.49      4.00      3.25
SRCPARAM L0011691     0.0000001082      3.49      4.00      3.25
SRCPARAM L0011692     0.0000001082      3.49      4.00      3.25
SRCPARAM L0011693     0.0000001082      3.49      4.00      3.25
SRCPARAM L0011694     0.0000001082      3.49      4.00      3.25
SRCPARAM L0011695     0.0000001082      3.49      4.00      3.25
SRCPARAM L0011696     0.0000001082      3.49      4.00      3.25
SRCPARAM L0011697     0.0000001082      3.49      4.00      3.25
SRCPARAM L0011698     0.0000001082      3.49      4.00      3.25
SRCPARAM L0011699     0.0000001082      3.49      4.00      3.25
SRCPARAM L0011700     0.0000001082      3.49      4.00      3.25
SRCPARAM L0011701     0.0000001082      3.49      4.00      3.25
SRCPARAM L0011702     0.0000001082      3.49      4.00      3.25
SRCPARAM L0011703     0.0000001082      3.49      4.00      3.25
SRCPARAM L0011704     0.0000001082      3.49      4.00      3.25
SRCPARAM L0011705     0.0000001082      3.49      4.00      3.25
SRCPARAM L0011706     0.0000001082      3.49      4.00      3.25
SRCPARAM L0011707     0.0000001082      3.49      4.00      3.25
SRCPARAM L0011708     0.0000001082      3.49      4.00      3.25
SRCPARAM L0011709     0.0000001082      3.49      4.00      3.25
SRCPARAM L0011710     0.0000001082      3.49      4.00      3.25
SRCPARAM L0011711     0.0000001082      3.49      4.00      3.25
SRCPARAM L0011712     0.0000001082      3.49      4.00      3.25
SRCPARAM L0011713     0.0000001082      3.49      4.00      3.25
SRCPARAM L0011714     0.0000001082      3.49      4.00      3.25
SRCPARAM L0011715     0.0000001082      3.49      4.00      3.25
SRCPARAM L0011716     0.0000001082      3.49      4.00      3.25
SRCPARAM L0011717     0.0000001082      3.49      4.00      3.25
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   SRCPARAM L0011718     0.0000001082      3.49      4.00      3.25
   SRCPARAM L0011719     0.0000001082      3.49      4.00      3.25
   SRCPARAM L0011720     0.0000001082      3.49      4.00      3.25
   SRCPARAM L0011721     0.0000001082      3.49      4.00      3.25
   SRCPARAM L0011722     0.0000001082      3.49      4.00      3.25
   SRCPARAM L0011723     0.0000001082      3.49      4.00      3.25
   SRCPARAM L0011724     0.0000001082      3.49      4.00      3.25
   SRCPARAM L0011725     0.0000001082      3.49      4.00      3.25
   SRCPARAM L0011726     0.0000001082      3.49      4.00      3.25
   SRCPARAM L0011727     0.0000001082      3.49      4.00      3.25
   SRCPARAM L0011728     0.0000001082      3.49      4.00      3.25
   SRCPARAM L0011729     0.0000001082      3.49      4.00      3.25
   SRCPARAM L0011730     0.0000001082      3.49      4.00      3.25
   SRCPARAM L0011731     0.0000001082      3.49      4.00      3.25
   SRCPARAM L0011732     0.0000001082      3.49      4.00      3.25
   SRCPARAM L0011733     0.0000001082      3.49      4.00      3.25
   SRCPARAM L0011734     0.0000001082      3.49      4.00      3.25
   SRCPARAM L0011735     0.0000001082      3.49      4.00      3.25
   SRCPARAM L0011736     0.0000001082      3.49      4.00      3.25
   SRCPARAM L0011737     0.0000001082      3.49      4.00      3.25
   SRCPARAM L0011738     0.0000001082      3.49      4.00      3.25
   SRCPARAM L0011739     0.0000001082      3.49      4.00      3.25
   SRCPARAM L0011740     0.0000001082      3.49      4.00      3.25
   SRCPARAM L0011741     0.0000001082      3.49      4.00      3.25
   SRCPARAM L0011742     0.0000001082      3.49      4.00      3.25
   SRCPARAM L0011743     0.0000001082      3.49      4.00      3.25
   SRCPARAM L0011744     0.0000001082      3.49      4.00      3.25
   SRCPARAM L0011745     0.0000001082      3.49      4.00      3.25
   SRCPARAM L0011746     0.0000001082      3.49      4.00      3.25
   SRCPARAM L0011747     0.0000001082      3.49      4.00      3.25
   SRCPARAM L0011748     0.0000001082      3.49      4.00      3.25
   SRCPARAM L0011749     0.0000001082      3.49      4.00      3.25
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** LINE VOLUME SOURCE ID = SLINE22
   SRCPARAM L0011750     0.000000008017      3.49      4.00      3.25
   SRCPARAM L0011751     0.000000008017      3.49      4.00      3.25
   SRCPARAM L0011752     0.000000008017      3.49      4.00      3.25
   SRCPARAM L0011753     0.000000008017      3.49      4.00      3.25
   SRCPARAM L0011754     0.000000008017      3.49      4.00      3.25
   SRCPARAM L0011755     0.000000008017      3.49      4.00      3.25
   SRCPARAM L0011756     0.000000008017      3.49      4.00      3.25
   SRCPARAM L0011757     0.000000008017      3.49      4.00      3.25
   SRCPARAM L0011758     0.000000008017      3.49      4.00      3.25
   SRCPARAM L0011759     0.000000008017      3.49      4.00      3.25
   SRCPARAM L0011760     0.000000008017      3.49      4.00      3.25
   SRCPARAM L0011761     0.000000008017      3.49      4.00      3.25
   SRCPARAM L0011762     0.000000008017      3.49      4.00      3.25
   SRCPARAM L0011763     0.000000008017      3.49      4.00      3.25
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SRCPARAM	L0011764	0.000000008017	3.49	4.00	3.25
SRCPARAM	L0011765	0.000000008017	3.49	4.00	3.25
SRCPARAM	L0011766	0.000000008017	3.49	4.00	3.25
SRCPARAM	L0011767	0.000000008017	3.49	4.00	3.25
SRCPARAM	L0011768	0.000000008017	3.49	4.00	3.25
SRCPARAM	L0011769	0.000000008017	3.49	4.00	3.25
SRCPARAM	L0011770	0.000000008017	3.49	4.00	3.25
SRCPARAM	L0011771	0.000000008017	3.49	4.00	3.25
SRCPARAM	L0011772	0.000000008017	3.49	4.00	3.25
SRCPARAM	L0011773	0.000000008017	3.49	4.00	3.25
SRCPARAM	L0011774	0.000000008017	3.49	4.00	3.25
SRCPARAM	L0011775	0.000000008017	3.49	4.00	3.25
SRCPARAM	L0011776	0.000000008017	3.49	4.00	3.25
SRCPARAM	L0011777	0.000000008017	3.49	4.00	3.25
SRCPARAM	L0011778	0.000000008017	3.49	4.00	3.25
SRCPARAM	L0011779	0.000000008017	3.49	4.00	3.25
SRCPARAM	L0011780	0.000000008017	3.49	4.00	3.25
SRCPARAM	L0011781	0.000000008017	3.49	4.00	3.25
SRCPARAM	L0011782	0.000000008017	3.49	4.00	3.25
SRCPARAM	L0011783	0.000000008017	3.49	4.00	3.25
SRCPARAM	L0011784	0.000000008017	3.49	4.00	3.25
SRCPARAM	L0011785	0.000000008017	3.49	4.00	3.25
SRCPARAM	L0011786	0.000000008017	3.49	4.00	3.25
SRCPARAM	L0011787	0.000000008017	3.49	4.00	3.25
SRCPARAM	L0011788	0.000000008017	3.49	4.00	3.25
SRCPARAM	L0011789	0.000000008017	3.49	4.00	3.25
SRCPARAM	L0011790	0.000000008017	3.49	4.00	3.25
SRCPARAM	L0011791	0.000000008017	3.49	4.00	3.25
SRCPARAM	L0011792	0.000000008017	3.49	4.00	3.25
SRCPARAM	L0011793	0.000000008017	3.49	4.00	3.25
SRCPARAM	L0011794	0.000000008017	3.49	4.00	3.25
SRCPARAM	L0011795	0.000000008017	3.49	4.00	3.25
SRCPARAM	L0011796	0.000000008017	3.49	4.00	3.25
SRCPARAM	L0011797	0.000000008017	3.49	4.00	3.25
SRCPARAM	L0011798	0.000000008017	3.49	4.00	3.25
SRCPARAM	L0011799	0.000000008017	3.49	4.00	3.25
SRCPARAM	L0011800	0.000000008017	3.49	4.00	3.25
SRCPARAM	L0011801	0.000000008017	3.49	4.00	3.25
SRCPARAM	L0011802	0.000000008017	3.49	4.00	3.25
SRCPARAM	L0011803	0.000000008017	3.49	4.00	3.25
SRCPARAM	L0011804	0.000000008017	3.49	4.00	3.25
SRCPARAM	L0011805	0.000000008017	3.49	4.00	3.25
SRCPARAM	L0011806	0.000000008017	3.49	4.00	3.25
SRCPARAM	L0011807	0.000000008017	3.49	4.00	3.25
SRCPARAM	L0011808	0.000000008017	3.49	4.00	3.25
SRCPARAM	L0011809	0.000000008017	3.49	4.00	3.25
SRCPARAM	L0011810	0.000000008017	3.49	4.00	3.25
SRCPARAM	L0011811	0.000000008017	3.49	4.00	3.25

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   SRCPARAM L0011812     0.000000008017      3.49      4.00      3.25
   SRCPARAM L0011813     0.000000008017      3.49      4.00      3.25
   SRCPARAM L0011814     0.000000008017      3.49      4.00      3.25
   SRCPARAM L0011815     0.000000008017      3.49      4.00      3.25
   SRCPARAM L0011816     0.000000008017      3.49      4.00      3.25
   SRCPARAM L0011817     0.000000008017      3.49      4.00      3.25
   SRCPARAM L0011818     0.000000008017      3.49      4.00      3.25
   SRCPARAM L0011819     0.000000008017      3.49      4.00      3.25
   SRCPARAM L0011820     0.000000008017      3.49      4.00      3.25
   SRCPARAM L0011821     0.000000008017      3.49      4.00      3.25
   SRCPARAM L0011822     0.000000008017      3.49      4.00      3.25
   SRCPARAM L0011823     0.000000008017      3.49      4.00      3.25
   SRCPARAM L0011824     0.000000008017      3.49      4.00      3.25
   SRCPARAM L0011825     0.000000008017      3.49      4.00      3.25
   SRCPARAM L0011826     0.000000008017      3.49      4.00      3.25
   SRCPARAM L0011827     0.000000008017      3.49      4.00      3.25
   SRCPARAM L0011828     0.000000008017      3.49      4.00      3.25
   SRCPARAM L0011829     0.000000008017      3.49      4.00      3.25
   SRCPARAM L0011830     0.000000008017      3.49      4.00      3.25
   SRCPARAM L0011831     0.000000008017      3.49      4.00      3.25
   SRCPARAM L0011832     0.000000008017      3.49      4.00      3.25
   SRCPARAM L0011833     0.000000008017      3.49      4.00      3.25
   SRCPARAM L0011834     0.000000008017      3.49      4.00      3.25
   SRCPARAM L0011835     0.000000008017      3.49      4.00      3.25
   SRCPARAM L0011836     0.000000008017      3.49      4.00      3.25
   SRCPARAM L0011837     0.000000008017      3.49      4.00      3.25
   SRCPARAM L0011838     0.000000008017      3.49      4.00      3.25
   SRCPARAM L0011839     0.000000008017      3.49      4.00      3.25
   SRCPARAM L0011840     0.000000008017      3.49      4.00      3.25
   SRCPARAM L0011841     0.000000008017      3.49      4.00      3.25
   SRCPARAM L0011842     0.000000008017      3.49      4.00      3.25
   SRCPARAM L0011843     0.000000008017      3.49      4.00      3.25
   SRCPARAM L0011844     0.000000008017      3.49      4.00      3.25
   SRCPARAM L0011845     0.000000008017      3.49      4.00      3.25
** ------------------------------------------------------------------
** LINE VOLUME SOURCE ID = SLINE23
   SRCPARAM L0011846     0.00000009973      3.49      4.00      3.25
   SRCPARAM L0011847     0.00000009973      3.49      4.00      3.25
   SRCPARAM L0011848     0.00000009973      3.49      4.00      3.25
   SRCPARAM L0011849     0.00000009973      3.49      4.00      3.25
   SRCPARAM L0011850     0.00000009973      3.49      4.00      3.25
   SRCPARAM L0011851     0.00000009973      3.49      4.00      3.25
   SRCPARAM L0011852     0.00000009973      3.49      4.00      3.25
   SRCPARAM L0011853     0.00000009973      3.49      4.00      3.25
   SRCPARAM L0011854     0.00000009973      3.49      4.00      3.25
   SRCPARAM L0011855     0.00000009973      3.49      4.00      3.25
   SRCPARAM L0011856     0.00000009973      3.49      4.00      3.25
   SRCPARAM L0011857     0.00000009973      3.49      4.00      3.25
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SRCPARAM L0011858     0.00000009973      3.49      4.00      3.25
SRCPARAM L0011859     0.00000009973      3.49      4.00      3.25
SRCPARAM L0011860     0.00000009973      3.49      4.00      3.25
SRCPARAM L0011861     0.00000009973      3.49      4.00      3.25
SRCPARAM L0011862     0.00000009973      3.49      4.00      3.25
SRCPARAM L0011863     0.00000009973      3.49      4.00      3.25
SRCPARAM L0011864     0.00000009973      3.49      4.00      3.25
SRCPARAM L0011865     0.00000009973      3.49      4.00      3.25
SRCPARAM L0011866     0.00000009973      3.49      4.00      3.25
SRCPARAM L0011867     0.00000009973      3.49      4.00      3.25
SRCPARAM L0011868     0.00000009973      3.49      4.00      3.25
SRCPARAM L0011869     0.00000009973      3.49      4.00      3.25
SRCPARAM L0011870     0.00000009973      3.49      4.00      3.25
SRCPARAM L0011871     0.00000009973      3.49      4.00      3.25
SRCPARAM L0011872     0.00000009973      3.49      4.00      3.25
SRCPARAM L0011873     0.00000009973      3.49      4.00      3.25
SRCPARAM L0011874     0.00000009973      3.49      4.00      3.25
SRCPARAM L0011875     0.00000009973      3.49      4.00      3.25
SRCPARAM L0011876     0.00000009973      3.49      4.00      3.25
SRCPARAM L0011877     0.00000009973      3.49      4.00      3.25
SRCPARAM L0011878     0.00000009973      3.49      4.00      3.25
SRCPARAM L0011879     0.00000009973      3.49      4.00      3.25
SRCPARAM L0011880     0.00000009973      3.49      4.00      3.25
SRCPARAM L0011881     0.00000009973      3.49      4.00      3.25
SRCPARAM L0011882     0.00000009973      3.49      4.00      3.25
SRCPARAM L0011883     0.00000009973      3.49      4.00      3.25
SRCPARAM L0011884     0.00000009973      3.49      4.00      3.25
SRCPARAM L0011885     0.00000009973      3.49      4.00      3.25
SRCPARAM L0011886     0.00000009973      3.49      4.00      3.25
SRCPARAM L0011887     0.00000009973      3.49      4.00      3.25
SRCPARAM L0011888     0.00000009973      3.49      4.00      3.25
SRCPARAM L0011889     0.00000009973      3.49      4.00      3.25
SRCPARAM L0011890     0.00000009973      3.49      4.00      3.25
SRCPARAM L0011891     0.00000009973      3.49      4.00      3.25
SRCPARAM L0011892     0.00000009973      3.49      4.00      3.25
SRCPARAM L0011893     0.00000009973      3.49      4.00      3.25
SRCPARAM L0011894     0.00000009973      3.49      4.00      3.25
SRCPARAM L0011895     0.00000009973      3.49      4.00      3.25
SRCPARAM L0011896     0.00000009973      3.49      4.00      3.25
SRCPARAM L0011897     0.00000009973      3.49      4.00      3.25
SRCPARAM L0011898     0.00000009973      3.49      4.00      3.25
SRCPARAM L0011899     0.00000009973      3.49      4.00      3.25
SRCPARAM L0011900     0.00000009973      3.49      4.00      3.25
SRCPARAM L0011901     0.00000009973      3.49      4.00      3.25
SRCPARAM L0011902     0.00000009973      3.49      4.00      3.25
SRCPARAM L0011903     0.00000009973      3.49      4.00      3.25
SRCPARAM L0011904     0.00000009973      3.49      4.00      3.25
SRCPARAM L0011905     0.00000009973      3.49      4.00      3.25
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   SRCPARAM L0011906     0.00000009973      3.49      4.00      3.25
   SRCPARAM L0011907     0.00000009973      3.49      4.00      3.25
   SRCPARAM L0011908     0.00000009973      3.49      4.00      3.25
   SRCPARAM L0011909     0.00000009973      3.49      4.00      3.25
   SRCPARAM L0011910     0.00000009973      3.49      4.00      3.25
   SRCPARAM L0011911     0.00000009973      3.49      4.00      3.25
   SRCPARAM L0011912     0.00000009973      3.49      4.00      3.25
   SRCPARAM L0011913     0.00000009973      3.49      4.00      3.25
   SRCPARAM L0011914     0.00000009973      3.49      4.00      3.25
   SRCPARAM L0011915     0.00000009973      3.49      4.00      3.25
   SRCPARAM L0011916     0.00000009973      3.49      4.00      3.25
   SRCPARAM L0011917     0.00000009973      3.49      4.00      3.25
   SRCPARAM L0011918     0.00000009973      3.49      4.00      3.25
   SRCPARAM L0011919     0.00000009973      3.49      4.00      3.25
   SRCPARAM L0011920     0.00000009973      3.49      4.00      3.25
   SRCPARAM L0011921     0.00000009973      3.49      4.00      3.25
   SRCPARAM L0011922     0.00000009973      3.49      4.00      3.25
   SRCPARAM L0011923     0.00000009973      3.49      4.00      3.25
   SRCPARAM L0011924     0.00000009973      3.49      4.00      3.25
   SRCPARAM L0011925     0.00000009973      3.49      4.00      3.25
   SRCPARAM L0011926     0.00000009973      3.49      4.00      3.25
   SRCPARAM L0011927     0.00000009973      3.49      4.00      3.25
   SRCPARAM L0011928     0.00000009973      3.49      4.00      3.25
   SRCPARAM L0011929     0.00000009973      3.49      4.00      3.25
   SRCPARAM L0011930     0.00000009973      3.49      4.00      3.25
   SRCPARAM L0011931     0.00000009973      3.49      4.00      3.25
   SRCPARAM L0011932     0.00000009973      3.49      4.00      3.25
   SRCPARAM L0011933     0.00000009973      3.49      4.00      3.25
   SRCPARAM L0011934     0.00000009973      3.49      4.00      3.25
   SRCPARAM L0011935     0.00000009973      3.49      4.00      3.25
   SRCPARAM L0011936     0.00000009973      3.49      4.00      3.25
   SRCPARAM L0011937     0.00000009973      3.49      4.00      3.25
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   SRCPARAM L0011939     0.000000004002      3.49      4.00      3.25
   SRCPARAM L0011940     0.000000004002      3.49      4.00      3.25
   SRCPARAM L0011941     0.000000004002      3.49      4.00      3.25
   SRCPARAM L0011942     0.000000004002      3.49      4.00      3.25
   SRCPARAM L0011943     0.000000004002      3.49      4.00      3.25
   SRCPARAM L0011944     0.000000004002      3.49      4.00      3.25
   SRCPARAM L0011945     0.000000004002      3.49      4.00      3.25
   SRCPARAM L0011946     0.000000004002      3.49      4.00      3.25
   SRCPARAM L0011947     0.000000004002      3.49      4.00      3.25
   SRCPARAM L0011948     0.000000004002      3.49      4.00      3.25
   SRCPARAM L0011949     0.000000004002      3.49      4.00      3.25
   SRCPARAM L0011950     0.000000004002      3.49      4.00      3.25
   SRCPARAM L0011951     0.000000004002      3.49      4.00      3.25
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SRCPARAM L0011952     0.000000004002      3.49      4.00      3.25
SRCPARAM L0011953     0.000000004002      3.49      4.00      3.25
SRCPARAM L0011954     0.000000004002      3.49      4.00      3.25
SRCPARAM L0011955     0.000000004002      3.49      4.00      3.25
SRCPARAM L0011956     0.000000004002      3.49      4.00      3.25
SRCPARAM L0011957     0.000000004002      3.49      4.00      3.25
SRCPARAM L0011958     0.000000004002      3.49      4.00      3.25
SRCPARAM L0011959     0.000000004002      3.49      4.00      3.25
SRCPARAM L0011960     0.000000004002      3.49      4.00      3.25
SRCPARAM L0011961     0.000000004002      3.49      4.00      3.25
SRCPARAM L0011962     0.000000004002      3.49      4.00      3.25
SRCPARAM L0011963     0.000000004002      3.49      4.00      3.25
SRCPARAM L0011964     0.000000004002      3.49      4.00      3.25
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SRCPARAM L0011967     0.000000004002      3.49      4.00      3.25
SRCPARAM L0011968     0.000000004002      3.49      4.00      3.25
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SRCPARAM L0011970     0.000000004002      3.49      4.00      3.25
SRCPARAM L0011971     0.000000004002      3.49      4.00      3.25
SRCPARAM L0011972     0.000000004002      3.49      4.00      3.25
SRCPARAM L0011973     0.000000004002      3.49      4.00      3.25
SRCPARAM L0011974     0.000000004002      3.49      4.00      3.25
SRCPARAM L0011975     0.000000004002      3.49      4.00      3.25
SRCPARAM L0011976     0.000000004002      3.49      4.00      3.25
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SRCPARAM L0011985     0.000000004002      3.49      4.00      3.25
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SRCPARAM L0011989     0.000000004002      3.49      4.00      3.25
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SRCPARAM L0011991     0.000000004002      3.49      4.00      3.25
SRCPARAM L0011992     0.000000004002      3.49      4.00      3.25
SRCPARAM L0011993     0.000000004002      3.49      4.00      3.25
SRCPARAM L0011994     0.000000004002      3.49      4.00      3.25
SRCPARAM L0011995     0.000000004002      3.49      4.00      3.25
SRCPARAM L0011996     0.000000004002      3.49      4.00      3.25
SRCPARAM L0011997     0.000000004002      3.49      4.00      3.25
SRCPARAM L0011998     0.000000004002      3.49      4.00      3.25
SRCPARAM L0011999     0.000000004002      3.49      4.00      3.25
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   SRCPARAM L0012001     0.000000004002      3.49      4.00      3.25
   SRCPARAM L0012002     0.000000004002      3.49      4.00      3.25
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   SRCPARAM L0012004     0.000000004002      3.49      4.00      3.25
   SRCPARAM L0012005     0.000000004002      3.49      4.00      3.25
   SRCPARAM L0012006     0.000000004002      3.49      4.00      3.25
   SRCPARAM L0012007     0.000000004002      3.49      4.00      3.25
   SRCPARAM L0012008     0.000000004002      3.49      4.00      3.25
   SRCPARAM L0012009     0.000000004002      3.49      4.00      3.25
   SRCPARAM L0012010     0.000000004002      3.49      4.00      3.25
   SRCPARAM L0012011     0.000000004002      3.49      4.00      3.25
   SRCPARAM L0012012     0.000000004002      3.49      4.00      3.25
   SRCPARAM L0012013     0.000000004002      3.49      4.00      3.25
   SRCPARAM L0012014     0.000000004002      3.49      4.00      3.25
   SRCPARAM L0012015     0.000000004002      3.49      4.00      3.25
   SRCPARAM L0012016     0.000000004002      3.49      4.00      3.25
   SRCPARAM L0012017     0.000000004002      3.49      4.00      3.25
   SRCPARAM L0012018     0.000000004002      3.49      4.00      3.25
   SRCPARAM L0012019     0.000000004002      3.49      4.00      3.25
   SRCPARAM L0012020     0.000000004002      3.49      4.00      3.25
   SRCPARAM L0012021     0.000000004002      3.49      4.00      3.25
   SRCPARAM L0012022     0.000000004002      3.49      4.00      3.25
   SRCPARAM L0012023     0.000000004002      3.49      4.00      3.25
   SRCPARAM L0012024     0.000000004002      3.49      4.00      3.25
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   SRCPARAM L0012026     0.000000004002      3.49      4.00      3.25
   SRCPARAM L0012027     0.000000004002      3.49      4.00      3.25
   SRCPARAM L0012028     0.000000004002      3.49      4.00      3.25
   SRCPARAM L0012029     0.000000004002      3.49      4.00      3.25
   SRCPARAM L0012030     0.000000004002      3.49      4.00      3.25
   SRCPARAM L0012031     0.000000004002      3.49      4.00      3.25
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   SRCPARAM L0012035     0.00000009629      3.49      4.00      3.25
   SRCPARAM L0012036     0.00000009629      3.49      4.00      3.25
   SRCPARAM L0012037     0.00000009629      3.49      4.00      3.25
   SRCPARAM L0012038     0.00000009629      3.49      4.00      3.25
   SRCPARAM L0012039     0.00000009629      3.49      4.00      3.25
   SRCPARAM L0012040     0.00000009629      3.49      4.00      3.25
   SRCPARAM L0012041     0.00000009629      3.49      4.00      3.25
   SRCPARAM L0012042     0.00000009629      3.49      4.00      3.25
   SRCPARAM L0012043     0.00000009629      3.49      4.00      3.25
   SRCPARAM L0012044     0.00000009629      3.49      4.00      3.25
   SRCPARAM L0012045     0.00000009629      3.49      4.00      3.25
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SRCPARAM L0012046     0.00000009629      3.49      4.00      3.25
SRCPARAM L0012047     0.00000009629      3.49      4.00      3.25
SRCPARAM L0012048     0.00000009629      3.49      4.00      3.25
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SRCPARAM L0012052     0.00000009629      3.49      4.00      3.25
SRCPARAM L0012053     0.00000009629      3.49      4.00      3.25
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SRCPARAM L0012066     0.00000009629      3.49      4.00      3.25
SRCPARAM L0012067     0.00000009629      3.49      4.00      3.25
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SRCPARAM L0012199     0.00000009629      3.49      4.00      3.25
SRCPARAM L0012200     0.00000009629      3.49      4.00      3.25
SRCPARAM L0012201     0.00000009629      3.49      4.00      3.25
SRCPARAM L0012202     0.00000009629      3.49      4.00      3.25
SRCPARAM L0012203     0.00000009629      3.49      4.00      3.25
SRCPARAM L0012204     0.00000009629      3.49      4.00      3.25
SRCPARAM L0012205     0.00000009629      3.49      4.00      3.25
SRCPARAM L0012206     0.00000009629      3.49      4.00      3.25
SRCPARAM L0012207     0.00000009629      3.49      4.00      3.25
SRCPARAM L0012208     0.00000009629      3.49      4.00      3.25
SRCPARAM L0012209     0.00000009629      3.49      4.00      3.25
SRCPARAM L0012210     0.00000009629      3.49      4.00      3.25
SRCPARAM L0012211     0.00000009629      3.49      4.00      3.25
SRCPARAM L0012212     0.00000009629      3.49      4.00      3.25
SRCPARAM L0012213     0.00000009629      3.49      4.00      3.25
SRCPARAM L0012214     0.00000009629      3.49      4.00      3.25
SRCPARAM L0012215     0.00000009629      3.49      4.00      3.25
SRCPARAM L0012216     0.00000009629      3.49      4.00      3.25
SRCPARAM L0012217     0.00000009629      3.49      4.00      3.25
SRCPARAM L0012218     0.00000009629      3.49      4.00      3.25
SRCPARAM L0012219     0.00000009629      3.49      4.00      3.25
SRCPARAM L0012220     0.00000009629      3.49      4.00      3.25
SRCPARAM L0012221     0.00000009629      3.49      4.00      3.25
SRCPARAM L0012222     0.00000009629      3.49      4.00      3.25
SRCPARAM L0012223     0.00000009629      3.49      4.00      3.25
SRCPARAM L0012224     0.00000009629      3.49      4.00      3.25
SRCPARAM L0012225     0.00000009629      3.49      4.00      3.25
SRCPARAM L0012226     0.00000009629      3.49      4.00      3.25
SRCPARAM L0012227     0.00000009629      3.49      4.00      3.25
SRCPARAM L0012228     0.00000009629      3.49      4.00      3.25
SRCPARAM L0012229     0.00000009629      3.49      4.00      3.25
SRCPARAM L0012230     0.00000009629      3.49      4.00      3.25
SRCPARAM L0012231     0.00000009629      3.49      4.00      3.25
SRCPARAM L0012232     0.00000009629      3.49      4.00      3.25
SRCPARAM L0012233     0.00000009629      3.49      4.00      3.25
SRCPARAM L0012234     0.00000009629      3.49      4.00      3.25
SRCPARAM L0012235     0.00000009629      3.49      4.00      3.25
SRCPARAM L0012236     0.00000009629      3.49      4.00      3.25
SRCPARAM L0012237     0.00000009629      3.49      4.00      3.25
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   SRCPARAM L0012238     0.00000009629      3.49      4.00      3.25
   SRCPARAM L0012239     0.00000009629      3.49      4.00      3.25
   SRCPARAM L0012240     0.00000009629      3.49      4.00      3.25
   SRCPARAM L0012241     0.00000009629      3.49      4.00      3.25
   SRCPARAM L0012242     0.00000009629      3.49      4.00      3.25
   SRCPARAM L0012243     0.00000009629      3.49      4.00      3.25
   SRCPARAM L0012244     0.00000009629      3.49      4.00      3.25
   SRCPARAM L0012245     0.00000009629      3.49      4.00      3.25
   SRCPARAM L0012246     0.00000009629      3.49      4.00      3.25
   SRCPARAM L0012247     0.00000009629      3.49      4.00      3.25
   SRCPARAM L0012248     0.00000009629      3.49      4.00      3.25
   SRCPARAM L0012249     0.00000009629      3.49      4.00      3.25
   SRCPARAM L0012250     0.00000009629      3.49      4.00      3.25
   SRCPARAM L0012251     0.00000009629      3.49      4.00      3.25
   SRCPARAM L0012252     0.00000009629      3.49      4.00      3.25
   SRCPARAM L0012253     0.00000009629      3.49      4.00      3.25
   SRCPARAM L0012254     0.00000009629      3.49      4.00      3.25
   SRCPARAM L0012255     0.00000009629      3.49      4.00      3.25
   SRCPARAM L0012256     0.00000009629      3.49      4.00      3.25
   SRCPARAM L0012257     0.00000009629      3.49      4.00      3.25
   SRCPARAM L0012258     0.00000009629      3.49      4.00      3.25
   SRCPARAM L0012259     0.00000009629      3.49      4.00      3.25
   SRCPARAM L0012260     0.00000009629      3.49      4.00      3.25
   SRCPARAM L0012261     0.00000009629      3.49      4.00      3.25
   SRCPARAM L0012262     0.00000009629      3.49      4.00      3.25
   SRCPARAM L0012263     0.00000009629      3.49      4.00      3.25
   SRCPARAM L0012264     0.00000009629      3.49      4.00      3.25
   SRCPARAM L0012265     0.00000009629      3.49      4.00      3.25
   SRCPARAM L0012266     0.00000009629      3.49      4.00      3.25
   SRCPARAM L0012267     0.00000009629      3.49      4.00      3.25
   SRCPARAM L0012268     0.00000009629      3.49      4.00      3.25
   SRCPARAM L0012269     0.00000009629      3.49      4.00      3.25
   SRCPARAM L0012270     0.00000009629      3.49      4.00      3.25
   SRCPARAM L0012271     0.00000009629      3.49      4.00      3.25
** ------------------------------------------------------------------
   URBANSRC ALL
   SRCGROUP ALL
SO FINISHED
**
**************************************
** AERMOD RECEPTOR PATHWAY
**************************************
**
**
RE STARTING
   INCLUDED "12979 HRA.ROU"
RE FINISHED
**
```

```
**************************************
** AERMOD METEOROLOGY PATHWAY
**************************************
**
**
ME STARTING
   SURFFILE FONTANAADJU\FONT_V9_ADJU\FONT_V9.SFC
   PROFFILE FONTANAADJU\FONT_V9_ADJU\FONT_V9.PFL
   SURFDATA 3102 2011
   UAIRDATA 3190 2011
   SITEDATA 99999 2011
   PROFBASE 367.0 METERS
ME FINISHED
**
**************************************
** AERMOD OUTPUT PATHWAY
**************************************
**
**
OU STARTING
** AUTO-GENERATED PLOTFILES
   PLOTFILE   ANNUAL ALL "12979 HRA.AD\AN00GALL.PLT" 31
   SUMMFILE "12979 HRA.SUM"
OU FINISHED


  *** Message Summary For AERMOD Model Setup ***

  --------- Summary of Total Messages --------

 A Total of            0 Fatal Error Message(s)
 A Total of            2 Warning Message(s)
 A Total of            0 Informational Message(s)


    ******** FATAL ERROR MESSAGES ********
               ***  NONE  ***


    ********   WARNING MESSAGES   ********
 ME W186    5004       MEOPEN: THRESH_1MIN 1-min ASOS wind speed threshold used
      0.50
 ME W187    5004       MEOPEN: ADJ_U* Option for Stable Low Winds used in AERMET


 ***********************************
 *** SETUP Finishes Successfully ***
 ***********************************
```

```
 *** AERMOD - VERSION  18081 ***   *** C:\LAKES\AERMOD VIEW\12979 HRA\12979
HRA.ISC                         ***        10/07/19
 *** AERMET - VERSION  16216 ***   ***
                         ***        12:30:42

                                   PAGE   1
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                            ***     MODEL SETUP OPTIONS SUMMARY
  ***
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - -

 **Model Is Setup For Calculation of Average CONCentration Values.

   --  DEPOSITION LOGIC  --
 **NO GAS DEPOSITION Data Provided.
 **NO PARTICLE DEPOSITION Data Provided.
 **Model Uses NO DRY DEPLETION.  DRYDPLT  =  F
 **Model Uses NO WET DEPLETION.  WETDPLT  =  F

 **Model Uses URBAN Dispersion Algorithm for the SBL for  2218 Source(s),
   for Total of    1 Urban Area(s):
   Urban Population =   2035210.0 ;  Urban Roughness Length =  1.000 m

 **Model Uses Regulatory DEFAULT Options:
         1. Stack-tip Downwash.
         2. Model Accounts for ELEVated Terrain Effects.
         3. Use Calms Processing Routine.
         4. Use Missing Data Processing Routine.
         5. No Exponential Decay.
         6. Urban Roughness Length of 1.0 Meter Assumed.

 **Other Options Specified:
         ADJ_U*   - Use ADJ_U* option for SBL in AERMET
         TEMP_Sub - Meteorological data includes TEMP substitutions

 **Model Assumes No FLAGPOLE Receptor Heights.

 **The User Specified a Pollutant Type of:  DPM

 **Model Calculates ANNUAL Averages Only

 **This Run Includes:   2218 Source(s);       1 Source Group(s); and     142
Receptor(s)

                with:      0 POINT(s), including
```

12979 HRA
0 POINTCAP(s) and 0 POINTHOR(s)
and: 2218 VOLUME source(s)
and: 0 AREA type source(s)
and: 0 LINE source(s)
and: 0 OPENPIT source(s)
and: 0 BUOYANT LINE source(s) with 0 line(s)

**Model Set To Continue RUNning After the Setup Testing.

**The AERMET Input Meteorological Data Version Date: 16216

**Output Options Selected:
Model Outputs Tables of ANNUAL Averages by Receptor
Model Outputs External File(s) of High Values for Plotting (PLOTFILE Keyword)
Model Outputs Separate Summary File of High Ranked Values (SUMMFILE Keyword)

**NOTE: The Following Flags May Appear Following CONC Values: c for Calm Hours
m for Missing Hours
b for Both Calm and Missing Hours

**Misc. Inputs: Base Elev. for Pot. Temp. Profile (m MSL) = 367.00 ; Decay Coef. = 0.000 ; Rot. Angle = 0.0
Emission Units = GRAMS/SEC ;
Emission Rate Unit Factor = 0.10000E+07
Output Units = MICROGRAMS/M**3

**Approximate Storage Requirements of Model = 4.4 MB of RAM.

**Input Runstream File: aermod.inp

**Output Print File: aermod.out

**Detailed Error/Message File: 12979 HRA.ERR

**File for Summary of Results: 12979 HRA.SUM

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE VARY BY
L0010054	0	0.87780E-06	459447.5	3768161.8	320.0	3.49	4.00	3.25	YES	
L0010055	0	0.87780E-06	459447.6	3768153.2	320.0	3.49	4.00	3.25	YES	
L0010056	0	0.87780E-06	459447.7	3768144.6	320.0	3.49	4.00	3.25	YES	
L0010057	0	0.87780E-06	459447.8	3768136.0	320.0	3.49	4.00	3.25	YES	
L0010058	0	0.87780E-06	459447.9	3768127.4	319.7	3.49	4.00	3.25	YES	
L0010059	0	0.87780E-06	459448.0	3768118.8	319.4	3.49	4.00	3.25	YES	
L0010060	0	0.87780E-06	459448.1	3768110.3	319.1	3.49	4.00	3.25	YES	
L0010061	0	0.87780E-06	459448.2	3768101.7	319.0	3.49	4.00	3.25	YES	
L0010062	0	0.87780E-06	459448.3	3768093.1	319.0	3.49	4.00	3.25	YES	
L0010063	0	0.87780E-06	459448.4	3768084.5	319.0	3.49	4.00	3.25	YES	
L0010064	0	0.87780E-06	459448.5	3768075.9	319.0	3.49	4.00	3.25	YES	
L0010065	0	0.87780E-06	459448.6	3768067.3	319.0	3.49	4.00	3.25	YES	
L0010066	0	0.87780E-06	459448.6	3768058.7	319.0	3.49	4.00	3.25	YES	
L0010067	0	0.87780E-06	459448.7	3768050.1	319.0	3.49	4.00	3.25	YES	
L0010068	0	0.87780E-06	459448.8	3768041.5	319.0	3.49	4.00	3.25	YES	
L0010069	0	0.87780E-06	459448.9	3768033.0	319.0	3.49	4.00	3.25	YES	
L0010070	0	0.87780E-06	459449.0	3768024.4	319.0	3.49	4.00	3.25	YES	

L0010071	0	0.87780E-06	459449.1	3768015.8	319.0	3.49	4.00	3.25 YES
L0010072	0	0.87780E-06	459449.2	3768007.2	319.0	3.49	4.00	3.25 YES
L0010073	0	0.87780E-06	459449.3	3767998.6	319.0	3.49	4.00	3.25 YES
L0010074	0	0.87780E-06	459449.4	3767990.0	319.0	3.49	4.00	3.25 YES
L0010075	0	0.87780E-06	459449.5	3767981.4	319.0	3.49	4.00	3.25 YES
L0010076	0	0.87780E-06	459449.6	3767972.8	319.0	3.49	4.00	3.25 YES
L0010077	0	0.87780E-06	459449.6	3767964.2	319.0	3.49	4.00	3.25 YES
L0010078	0	0.87780E-06	459449.7	3767955.6	319.0	3.49	4.00	3.25 YES
L0010079	0	0.87780E-06	459449.8	3767947.1	319.0	3.49	4.00	3.25 YES
L0010080	0	0.87780E-06	459449.9	3767938.5	319.0	3.49	4.00	3.25 YES
L0010081	0	0.87780E-06	459450.0	3767929.9	319.0	3.49	4.00	3.25 YES
L0010082	0	0.87780E-06	459450.1	3767921.3	318.9	3.49	4.00	3.25 YES
L0010083	0	0.87780E-06	459450.2	3767912.7	318.9	3.49	4.00	3.25 YES
L0010084	0	0.87780E-06	459450.3	3767904.1	318.8	3.49	4.00	3.25 YES
L0010085	0	0.87780E-06	459450.4	3767895.5	318.7	3.49	4.00	3.25 YES
L0010086	0	0.80460E-06	459461.4	3767777.2	318.0	3.49	4.00	3.25 YES
L0010087	0	0.80460E-06	459469.9	3767777.1	318.0	3.49	4.00	3.25 YES
L0010088	0	0.80460E-06	459478.5	3767777.0	318.0	3.49	4.00	3.25 YES
L0010089	0	0.80460E-06	459487.1	3767777.0	318.0	3.49	4.00	3.25 YES
L0010090	0	0.80460E-06	459495.7	3767776.9	318.0	3.49	4.00	3.25 YES
L0010091	0	0.80460E-06	459504.3	3767776.8	318.0	3.49	4.00	3.25 YES
L0010092	0	0.80460E-06	459512.9	3767776.7	318.0	3.49	4.00	3.25 YES
L0010093	0	0.80460E-06	459521.5	3767776.6	318.0	3.49	4.00	3.25 YES

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER EMISSION RATE PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE VARY BY
L0010094	0	0.80460E-06	459530.1	3767776.6	318.0	3.49	4.00	3.25	YES	
L0010095	0	0.80460E-06	459538.7	3767776.5	318.0	3.49	4.00	3.25	YES	
L0010096	0	0.80460E-06	459547.2	3767776.4	318.0	3.49	4.00	3.25	YES	
L0010097	0	0.80460E-06	459555.8	3767776.3	318.0	3.49	4.00	3.25	YES	
L0010098	0	0.80460E-06	459564.4	3767776.2	318.0	3.49	4.00	3.25	YES	
L0010099	0	0.80460E-06	459573.0	3767776.1	318.0	3.49	4.00	3.25	YES	
L0010100	0	0.80460E-06	459581.6	3767776.1	318.0	3.49	4.00	3.25	YES	
L0010101	0	0.80460E-06	459590.2	3767776.0	318.0	3.49	4.00	3.25	YES	
L0010102	0	0.80460E-06	459598.8	3767775.9	318.0	3.49	4.00	3.25	YES	
L0010103	0	0.80460E-06	459607.4	3767775.8	318.0	3.49	4.00	3.25	YES	
L0010104	0	0.80460E-06	459616.0	3767775.7	318.0	3.49	4.00	3.25	YES	
L0010105	0	0.80460E-06	459624.6	3767775.7	318.0	3.49	4.00	3.25	YES	
L0010106	0	0.80460E-06	459633.1	3767775.6	318.0	3.49	4.00	3.25	YES	
L0010107	0	0.80460E-06	459641.7	3767775.5	318.0	3.49	4.00	3.25	YES	
L0010108	0	0.80460E-06	459650.3	3767775.4	318.0	3.49	4.00	3.25	YES	

L0010109	0	0.80460E-06	459658.9	3767775.3	318.0	3.49	4.00	3.25 YES
L0010110	0	0.80460E-06	459667.5	3767775.2	318.0	3.49	4.00	3.25 YES
L0010111	0	0.80460E-06	459676.1	3767775.2	318.0	3.49	4.00	3.25 YES
L0010112	0	0.52250E-06	459408.1	3768213.9	320.0	0.00	4.00	3.25 YES
L0010113	0	0.52250E-06	459416.7	3768213.7	320.0	0.00	4.00	3.25 YES
L0010114	0	0.52250E-06	459425.3	3768213.6	320.0	0.00	4.00	3.25 YES
L0010115	0	0.52250E-06	459432.8	3768212.3	320.0	0.00	4.00	3.25 YES
L0010116	0	0.52250E-06	459432.9	3768203.7	320.0	0.00	4.00	3.25 YES
L0010117	0	0.52250E-06	459433.0	3768195.1	320.0	0.00	4.00	3.25 YES
L0010118	0	0.52250E-06	459433.1	3768186.5	320.0	0.00	4.00	3.25 YES
L0010119	0	0.52250E-06	459433.2	3768178.0	320.0	0.00	4.00	3.25 YES
L0010120	0	0.52250E-06	459433.3	3768169.4	320.0	0.00	4.00	3.25 YES
L0010121	0	0.52250E-06	459433.4	3768160.8	320.0	0.00	4.00	3.25 YES
L0010122	0	0.52250E-06	459433.5	3768152.2	320.0	0.00	4.00	3.25 YES
L0010123	0	0.52250E-06	459433.6	3768143.6	320.0	0.00	4.00	3.25 YES
L0010124	0	0.52250E-06	459433.7	3768135.0	320.0	0.00	4.00	3.25 YES
L0010125	0	0.52250E-06	459433.8	3768126.4	319.7	0.00	4.00	3.25 YES
L0010126	0	0.52250E-06	459433.8	3768117.8	319.4	0.00	4.00	3.25 YES
L0010127	0	0.52250E-06	459433.9	3768109.2	319.1	0.00	4.00	3.25 YES
L0010128	0	0.52250E-06	459434.0	3768100.6	319.0	0.00	4.00	3.25 YES
L0010129	0	0.52250E-06	459434.1	3768092.1	319.0	0.00	4.00	3.25 YES
L0010130	0	0.52250E-06	459434.2	3768083.5	319.0	0.00	4.00	3.25 YES
L0010131	0	0.52250E-06	459434.3	3768074.9	319.0	0.00	4.00	3.25 YES
L0010132	0	0.52250E-06	459434.4	3768066.3	319.0	0.00	4.00	3.25 YES

 L0010133   0   0.52250E-06 459434.5 3768057.7   319.0   0.00   4.00
3.25   YES

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                                                  *** VOLUME SOURCE DATA ***

               NUMBER EMISSION RATE   BASE   RELEASE   INIT.
INIT.   URBAN EMISSION RATE
   SOURCE   PART. (GRAMS/SEC)   X   Y   ELEV.   HEIGHT   SY
SZ   SOURCE SCALAR VARY
     ID   CATS.   (METERS) (METERS) (METERS) (METERS) (METERS)
(METERS)   BY
 -
- -

 L0010134   0   0.52250E-06 459434.6 3768049.1   319.0   0.00   4.00
3.25   YES
 L0010135   0   0.52250E-06 459434.7 3768040.5   319.0   0.00   4.00
3.25   YES
 L0010136   0   0.52250E-06 459434.8 3768031.9   319.0   0.00   4.00
3.25   YES
 L0010137   0   0.52250E-06 459434.9 3768023.3   319.0   0.00   4.00
3.25   YES
 L0010138   0   0.52250E-06 459435.0 3768014.8   319.0   0.00   4.00
3.25   YES
 L0010139   0   0.52250E-06 459435.1 3768006.2   319.0   0.00   4.00
3.25   YES
 L0010140   0   0.52250E-06 459435.2 3767997.6   319.0   0.00   4.00
3.25   YES
 L0010141   0   0.52250E-06 459435.3 3767989.0   319.0   0.00   4.00
3.25   YES
 L0010142   0   0.52250E-06 459435.4 3767980.4   319.0   0.00   4.00
3.25   YES
 L0010143   0   0.52250E-06 459435.5 3767971.8   319.0   0.00   4.00
3.25   YES
 L0010144   0   0.52250E-06 459435.6 3767963.2   319.0   0.00   4.00
3.25   YES
 L0010145   0   0.52250E-06 459435.7 3767954.6   319.0   0.00   4.00
3.25   YES
 L0010146   0   0.52250E-06 459435.8 3767946.0   319.0   0.00   4.00
3.25   YES

L0010147	0	0.52250E-06	459435.9	3767937.4	319.0	0.00	4.00	3.25 YES
L0010148	0	0.52250E-06	459436.0	3767928.9	319.0	0.00	4.00	3.25 YES
L0010149	0	0.52250E-06	459436.1	3767920.3	318.8	0.00	4.00	3.25 YES
L0010150	0	0.52250E-06	459436.2	3767911.7	318.6	0.00	4.00	3.25 YES
L0010151	0	0.52250E-06	459436.3	3767903.1	318.4	0.00	4.00	3.25 YES
L0010152	0	0.52250E-06	459436.4	3767894.5	318.2	0.00	4.00	3.25 YES
L0010153	0	0.52250E-06	459436.5	3767885.9	318.2	0.00	4.00	3.25 YES
L0010154	0	0.52250E-06	459436.6	3767877.3	318.1	0.00	4.00	3.25 YES
L0010155	0	0.52250E-06	459436.7	3767868.7	318.0	0.00	4.00	3.25 YES
L0010156	0	0.52250E-06	459436.8	3767860.1	318.0	0.00	4.00	3.25 YES
L0010157	0	0.52250E-06	459436.9	3767851.6	318.0	0.00	4.00	3.25 YES
L0010158	0	0.52250E-06	459437.0	3767843.0	318.0	0.00	4.00	3.25 YES
L0010159	0	0.52250E-06	459437.1	3767834.4	318.0	0.00	4.00	3.25 YES
L0010160	0	0.52250E-06	459430.2	3767832.6	318.0	0.00	4.00	3.25 YES
L0010161	0	0.52250E-06	459421.6	3767832.4	318.0	0.00	4.00	3.25 YES
L0010162	0	0.52250E-06	459413.0	3767832.2	318.0	0.00	4.00	3.25 YES
L0010163	0	0.52250E-06	459404.4	3767832.1	318.0	0.00	4.00	3.25 YES
L0010164	0	0.38980E-06	459403.2	3767828.6	318.0	0.00	4.00	3.25 YES
L0010165	0	0.38980E-06	459411.5	3767826.4	318.0	0.00	4.00	3.25 YES
L0010166	0	0.38980E-06	459419.7	3767824.1	318.0	0.00	4.00	3.25 YES
L0010167	0	0.38980E-06	459427.1	3767819.8	318.0	0.00	4.00	3.25 YES
L0010168	0	0.38980E-06	459434.2	3767815.0	318.0	0.00	4.00	3.25 YES
L0010169	0	0.38980E-06	459441.5	3767810.5	318.0	0.00	4.00	3.25 YES
L0010170	0	0.38980E-06	459449.5	3767807.3	318.0	0.00	4.00	3.25 YES

```
 L0010171         0   0.38980E-06  459457.4 3767804.1   318.0     0.00     4.00
3.25     YES
 L0010172         0   0.38980E-06  459465.9 3767803.6   318.0     0.00     4.00
3.25     YES
 L0010173         0   0.38980E-06  459474.5 3767803.6   318.0     0.00     4.00
3.25     YES
```



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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*


                                                      *** VOLUME SOURCE DATA ***

               NUMBER EMISSION RATE                    BASE    RELEASE    INIT.
INIT.   URBAN  EMISSION RATE
   SOURCE       PART.  (GRAMS/SEC)     X        Y      ELEV.   HEIGHT      SY
SZ     SOURCE  SCALAR VARY
     ID         CATS.               (METERS) (METERS) (METERS) (METERS) (METERS)
(METERS)             BY
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 L0010174         0   0.38980E-06  459483.1 3767803.5   318.0     0.00     4.00
3.25     YES
 L0010175         0   0.38980E-06  459491.7 3767803.4   318.0     0.00     4.00
3.25     YES
 L0010176         0   0.38980E-06  459500.3 3767803.4   318.0     0.00     4.00
3.25     YES
 L0010177         0   0.38980E-06  459508.9 3767803.3   318.0     0.00     4.00
3.25     YES
 L0010178         0   0.38980E-06  459517.5 3767803.3   318.0     0.00     4.00
3.25     YES
 L0010179         0   0.38980E-06  459526.1 3767803.2   318.0     0.00     4.00
3.25     YES
 L0010180         0   0.38980E-06  459534.7 3767802.9   318.0     0.00     4.00
3.25     YES
 L0010181         0   0.38980E-06  459543.2 3767802.6   318.0     0.00     4.00
3.25     YES
 L0010182         0   0.38980E-06  459551.8 3767802.2   318.0     0.00     4.00
3.25     YES
 L0010183         0   0.38980E-06  459560.4 3767801.9   318.0     0.00     4.00
3.25     YES
 L0010184         0   0.38980E-06  459569.0 3767801.6   318.0     0.00     4.00
3.25     YES
```

L0010185	0	0.38980E-06	459577.6	3767801.2	318.0	0.00	4.00	3.25 YES
L0010186	0	0.38980E-06	459586.2	3767800.9	318.0	0.00	4.00	3.25 YES
L0010187	0	0.38980E-06	459594.7	3767800.6	318.0	0.00	4.00	3.25 YES
L0010188	0	0.38980E-06	459603.3	3767800.2	318.0	0.00	4.00	3.25 YES
L0010189	0	0.38980E-06	459611.9	3767799.9	318.0	0.00	4.00	3.25 YES
L0010190	0	0.38980E-06	459620.5	3767799.6	318.0	0.00	4.00	3.25 YES
L0010191	0	0.38980E-06	459629.1	3767799.2	318.0	0.00	4.00	3.25 YES
L0010192	0	0.38980E-06	459637.7	3767798.9	318.0	0.00	4.00	3.25 YES
L0010193	0	0.38980E-06	459646.2	3767798.6	318.0	0.00	4.00	3.25 YES
L0010194	0	0.38980E-06	459654.8	3767798.2	318.0	0.00	4.00	3.25 YES
L0010195	0	0.38980E-06	459663.4	3767797.9	318.0	0.00	4.00	3.25 YES
L0010196	0	0.38980E-06	459672.0	3767797.6	318.0	0.00	4.00	3.25 YES
L0010197	0	0.38980E-06	459680.6	3767797.2	318.0	0.00	4.00	3.25 YES
L0010198	0	0.38980E-06	459683.0	3767790.9	318.0	0.00	4.00	3.25 YES
L0010199	0	0.38980E-06	459683.1	3767782.3	318.0	0.00	4.00	3.25 YES
L0010200	0	0.38980E-06	459683.2	3767773.8	318.0	0.00	4.00	3.25 YES
L0010201	0	0.38980E-06	459683.3	3767765.2	318.0	0.00	4.00	3.25 YES
L0010202	0	0.38980E-06	459683.4	3767756.6	318.0	0.00	4.00	3.25 YES
L0010203	0	0.38980E-06	459683.5	3767748.0	318.0	0.00	4.00	3.25 YES
L0010204	0	0.38980E-06	459683.6	3767739.4	318.2	0.00	4.00	3.25 YES
L0010205	0	0.38980E-06	459683.7	3767730.8	318.5	0.00	4.00	3.25 YES
L0010206	0	0.38980E-06	459683.8	3767722.2	318.8	0.00	4.00	3.25 YES
L0010207	0	0.38980E-06	459683.7	3767713.6	319.0	0.00	4.00	3.25 YES
L0010208	0	0.38980E-06	459683.5	3767705.0	319.0	0.00	4.00	3.25 YES

```
 L0010209         0   0.38980E-06  459683.3 3767696.5   319.0     0.00     4.00
3.25     YES
 L0010210         0   0.38980E-06  459683.0 3767687.9   319.0     0.00     4.00
3.25     YES
 L0010211         0   0.38980E-06  459682.8 3767679.3   319.2     0.00     4.00
3.25     YES
 L0010212         0   0.38980E-06  459682.6 3767670.7   319.5     0.00     4.00
3.25     YES
 L0010213         0   0.38980E-06  459682.3 3767662.1   319.8     0.00     4.00
3.25     YES
```



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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*


                                                      *** VOLUME SOURCE DATA ***

               NUMBER EMISSION RATE                    BASE    RELEASE    INIT.
INIT.   URBAN  EMISSION RATE
   SOURCE       PART.  (GRAMS/SEC)     X        Y      ELEV.   HEIGHT      SY
SZ     SOURCE  SCALAR VARY
     ID         CATS.               (METERS) (METERS) (METERS) (METERS) (METERS)
(METERS)             BY
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 L0010214         0   0.38980E-06  459682.1 3767653.5   320.0     0.00     4.00
3.25     YES
 L0010215         0   0.38980E-06  459681.9 3767644.9   320.0     0.00     4.00
3.25     YES
 L0010216         0   0.38980E-06  459681.7 3767636.4   320.0     0.00     4.00
3.25     YES
 L0010217         0   0.38980E-06  459681.4 3767627.8   320.0     0.00     4.00
3.25     YES
 L0010218         0   0.39760E-07  459678.5 3767613.4   320.4     3.49     4.00
3.25     YES
 L0010219         0   0.39760E-07  459669.9 3767613.2   320.4     3.49     4.00
3.25     YES
 L0010220         0   0.39760E-07  459661.3 3767613.1   320.3     3.49     4.00
3.25     YES
 L0010221         0   0.39760E-07  459652.7 3767613.0   320.2     3.49     4.00
3.25     YES
 L0010222         0   0.39760E-07  459644.2 3767612.9   320.1     3.49     4.00
3.25     YES
```

L0010223	0	0.39760E-07	459635.6	3767612.8	320.0	3.49	4.00	3.25 YES
L0010224	0	0.39760E-07	459627.0	3767612.6	320.0	3.49	4.00	3.25 YES
L0010225	0	0.39760E-07	459618.4	3767612.5	320.0	3.49	4.00	3.25 YES
L0010226	0	0.39760E-07	459609.8	3767612.4	320.0	3.49	4.00	3.25 YES
L0010227	0	0.39760E-07	459601.2	3767612.3	319.9	3.49	4.00	3.25 YES
L0010228	0	0.39760E-07	459592.6	3767612.1	319.7	3.49	4.00	3.25 YES
L0010229	0	0.39760E-07	459584.0	3767612.0	319.6	3.49	4.00	3.25 YES
L0010230	0	0.39760E-07	459575.4	3767611.9	319.5	3.49	4.00	3.25 YES
L0010231	0	0.39760E-07	459566.9	3767611.8	319.5	3.49	4.00	3.25 YES
L0010232	0	0.39760E-07	459558.3	3767611.7	319.5	3.49	4.00	3.25 YES
L0010233	0	0.39760E-07	459549.7	3767611.5	319.5	3.49	4.00	3.25 YES
L0010234	0	0.39760E-07	459541.1	3767611.4	319.5	3.49	4.00	3.25 YES
L0010235	0	0.39760E-07	459532.5	3767611.3	319.5	3.49	4.00	3.25 YES
L0010236	0	0.39760E-07	459523.9	3767611.2	319.5	3.49	4.00	3.25 YES
L0010237	0	0.39760E-07	459515.3	3767611.0	319.5	3.49	4.00	3.25 YES
L0010238	0	0.39760E-07	459506.7	3767610.9	319.5	3.49	4.00	3.25 YES
L0010239	0	0.39760E-07	459498.1	3767610.8	319.5	3.49	4.00	3.25 YES
L0010240	0	0.39760E-07	459489.6	3767610.7	319.5	3.49	4.00	3.25 YES
L0010241	0	0.39760E-07	459481.0	3767610.6	319.5	3.49	4.00	3.25 YES
L0010242	0	0.39760E-07	459472.4	3767610.4	319.5	3.49	4.00	3.25 YES
L0010243	0	0.39760E-07	459463.8	3767610.3	319.5	3.49	4.00	3.25 YES
L0010244	0	0.39760E-07	459455.2	3767610.2	319.5	3.49	4.00	3.25 YES
L0010245	0	0.39760E-07	459446.6	3767610.1	319.5	3.49	4.00	3.25 YES
L0010246	0	0.39760E-07	459438.0	3767610.0	319.6	3.49	4.00	3.25 YES

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 L0010247         0   0.39760E-07  459429.4 3767609.8   319.6     3.49     4.00
3.25     YES
 L0010248         0   0.39760E-07  459420.8 3767609.7   319.6     3.49     4.00
3.25     YES
 L0010249         0   0.39760E-07  459412.3 3767609.6   319.6     3.49     4.00
3.25     YES
 L0010250         0   0.39760E-07  459403.7 3767609.5   319.6     3.49     4.00
3.25     YES
 L0010251         0   0.39760E-07  459395.1 3767609.3   319.5     3.49     4.00
3.25     YES
 L0010252         0   0.39790E-07  459678.5 3767613.4   320.4     3.49     4.00
3.25     YES
 L0010253         0   0.39790E-07  459669.9 3767613.2   320.4     3.49     4.00
3.25     YES
```



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                                                      *** VOLUME SOURCE DATA ***

               NUMBER EMISSION RATE                     BASE    RELEASE    INIT.
INIT.   URBAN  EMISSION RATE
   SOURCE       PART.  (GRAMS/SEC)     X        Y      ELEV.   HEIGHT      SY
SZ     SOURCE  SCALAR VARY
     ID         CATS.               (METERS) (METERS) (METERS) (METERS) (METERS)
(METERS)             BY
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 L0010254         0   0.39790E-07  459661.3 3767613.1   320.3     3.49     4.00
3.25     YES
 L0010255         0   0.39790E-07  459652.7 3767613.0   320.2     3.49     4.00
3.25     YES
 L0010256         0   0.39790E-07  459644.2 3767612.9   320.1     3.49     4.00
3.25     YES
 L0010257         0   0.39790E-07  459635.6 3767612.8   320.0     3.49     4.00
3.25     YES
 L0010258         0   0.39790E-07  459627.0 3767612.6   320.0     3.49     4.00
3.25     YES
 L0010259         0   0.39790E-07  459618.4 3767612.5   320.0     3.49     4.00
3.25     YES
 L0010260         0   0.39790E-07  459609.8 3767612.4   320.0     3.49     4.00
3.25     YES
```

L0010261	0	0.39790E-07	459601.2	3767612.3	319.9	3.49	4.00	3.25 YES
L0010262	0	0.39790E-07	459592.6	3767612.1	319.7	3.49	4.00	3.25 YES
L0010263	0	0.39790E-07	459584.0	3767612.0	319.6	3.49	4.00	3.25 YES
L0010264	0	0.39790E-07	459575.4	3767611.9	319.5	3.49	4.00	3.25 YES
L0010265	0	0.39790E-07	459566.9	3767611.8	319.5	3.49	4.00	3.25 YES
L0010266	0	0.39790E-07	459558.3	3767611.7	319.5	3.49	4.00	3.25 YES
L0010267	0	0.39790E-07	459549.7	3767611.5	319.5	3.49	4.00	3.25 YES
L0010268	0	0.39790E-07	459541.1	3767611.4	319.5	3.49	4.00	3.25 YES
L0010269	0	0.39790E-07	459532.5	3767611.3	319.5	3.49	4.00	3.25 YES
L0010270	0	0.39790E-07	459523.9	3767611.2	319.5	3.49	4.00	3.25 YES
L0010271	0	0.39790E-07	459515.3	3767611.0	319.5	3.49	4.00	3.25 YES
L0010272	0	0.39790E-07	459506.7	3767610.9	319.5	3.49	4.00	3.25 YES
L0010273	0	0.39790E-07	459498.1	3767610.8	319.5	3.49	4.00	3.25 YES
L0010274	0	0.39790E-07	459489.6	3767610.7	319.5	3.49	4.00	3.25 YES
L0010275	0	0.39790E-07	459481.0	3767610.6	319.5	3.49	4.00	3.25 YES
L0010276	0	0.39790E-07	459472.4	3767610.4	319.5	3.49	4.00	3.25 YES
L0010277	0	0.39790E-07	459463.8	3767610.3	319.5	3.49	4.00	3.25 YES
L0010278	0	0.39790E-07	459455.2	3767610.2	319.5	3.49	4.00	3.25 YES
L0010279	0	0.39790E-07	459446.6	3767610.1	319.5	3.49	4.00	3.25 YES
L0010280	0	0.39790E-07	459438.0	3767610.0	319.6	3.49	4.00	3.25 YES
L0010281	0	0.39790E-07	459429.4	3767609.8	319.6	3.49	4.00	3.25 YES
L0010282	0	0.39790E-07	459420.8	3767609.7	319.6	3.49	4.00	3.25 YES
L0010283	0	0.39790E-07	459412.3	3767609.6	319.6	3.49	4.00	3.25 YES
L0010284	0	0.39790E-07	459403.7	3767609.5	319.6	3.49	4.00	3.25 YES

```
 L0010285         0   0.39790E-07  459395.1 3767609.3   319.5     3.49     4.00
3.25     YES
 L0010286         0   0.12030E-06  459376.9 3768209.9   320.0     3.49     4.00
3.25     YES
 L0010287         0   0.12030E-06  459377.0 3768201.3   320.0     3.49     4.00
3.25     YES
 L0010288         0   0.12030E-06  459377.1 3768192.7   320.0     3.49     4.00
3.25     YES
 L0010289         0   0.12030E-06  459377.2 3768184.1   320.0     3.49     4.00
3.25     YES
 L0010290         0   0.12030E-06  459377.2 3768175.5   320.0     3.49     4.00
3.25     YES
 L0010291         0   0.12030E-06  459377.3 3768167.0   320.0     3.49     4.00
3.25     YES
 L0010292         0   0.12030E-06  459377.4 3768158.4   319.8     3.49     4.00
3.25     YES
 L0010293         0   0.12030E-06  459377.5 3768149.8   319.6     3.49     4.00
3.25     YES
```



```
                                                      *** VOLUME SOURCE DATA ***

               NUMBER EMISSION RATE                    BASE    RELEASE    INIT.
INIT.   URBAN  EMISSION RATE
   SOURCE       PART.  (GRAMS/SEC)     X        Y      ELEV.   HEIGHT      SY
SZ     SOURCE  SCALAR VARY
     ID         CATS.               (METERS) (METERS) (METERS) (METERS) (METERS)
(METERS)             BY
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 L0010294         0   0.12030E-06  459377.5 3768141.2   319.4     3.49     4.00
3.25     YES
 L0010295         0   0.12030E-06  459377.6 3768132.6   319.2     3.49     4.00
3.25     YES
 L0010296         0   0.12030E-06  459377.7 3768124.0   319.2     3.49     4.00
3.25     YES
 L0010297         0   0.12030E-06  459377.8 3768115.4   319.1     3.49     4.00
3.25     YES
 L0010298         0   0.12030E-06  459377.9 3768106.8   319.0     3.49     4.00
3.25     YES
```

L0010299	0	0.12030E-06	459377.9	3768098.2	319.0	3.49	4.00	3.25 YES
L0010300	0	0.12030E-06	459378.0	3768089.6	319.0	3.49	4.00	3.25 YES
L0010301	0	0.12030E-06	459378.1	3768081.1	319.0	3.49	4.00	3.25 YES
L0010302	0	0.12030E-06	459378.2	3768072.5	319.0	3.49	4.00	3.25 YES
L0010303	0	0.12030E-06	459378.2	3768063.9	319.0	3.49	4.00	3.25 YES
L0010304	0	0.12030E-06	459378.3	3768055.3	319.0	3.49	4.00	3.25 YES
L0010305	0	0.12030E-06	459378.4	3768046.7	319.0	3.49	4.00	3.25 YES
L0010306	0	0.12030E-06	459378.5	3768038.1	319.0	3.49	4.00	3.25 YES
L0010307	0	0.12030E-06	459378.6	3768029.5	319.0	3.49	4.00	3.25 YES
L0010308	0	0.12030E-06	459378.6	3768020.9	319.0	3.49	4.00	3.25 YES
L0010309	0	0.12030E-06	459378.7	3768012.3	319.0	3.49	4.00	3.25 YES
L0010310	0	0.12030E-06	459378.8	3768003.7	319.0	3.49	4.00	3.25 YES
L0010311	0	0.12030E-06	459378.9	3767995.2	319.0	3.49	4.00	3.25 YES
L0010312	0	0.12030E-06	459379.0	3767986.6	319.0	3.49	4.00	3.25 YES
L0010313	0	0.12030E-06	459379.0	3767978.0	319.0	3.49	4.00	3.25 YES
L0010314	0	0.12030E-06	459379.1	3767969.4	319.0	3.49	4.00	3.25 YES
L0010315	0	0.12030E-06	459379.2	3767960.8	319.0	3.49	4.00	3.25 YES
L0010316	0	0.12030E-06	459379.3	3767952.2	318.9	3.49	4.00	3.25 YES
L0010317	0	0.12030E-06	459379.3	3767943.6	318.6	3.49	4.00	3.25 YES
L0010318	0	0.12030E-06	459379.4	3767935.0	318.3	3.49	4.00	3.25 YES
L0010319	0	0.12030E-06	459379.5	3767926.4	318.0	3.49	4.00	3.25 YES
L0010320	0	0.12030E-06	459379.6	3767917.9	318.0	3.49	4.00	3.25 YES
L0010321	0	0.12030E-06	459379.7	3767909.3	318.0	3.49	4.00	3.25 YES
L0010322	0	0.12030E-06	459379.7	3767900.7	318.0	3.49	4.00	3.25 YES

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 L0010323         0   0.12030E-06  459379.8 3767892.1   318.0     3.49     4.00
3.25     YES
 L0010324         0   0.12030E-06  459379.9 3767883.5   318.0     3.49     4.00
3.25     YES
 L0010325         0   0.12030E-06  459380.0 3767874.9   318.0     3.49     4.00
3.25     YES
 L0010326         0   0.12030E-06  459380.0 3767866.3   318.0     3.49     4.00
3.25     YES
 L0010327         0   0.12030E-06  459380.1 3767857.7   318.0     3.49     4.00
3.25     YES
 L0010328         0   0.12030E-06  459380.2 3767849.1   318.0     3.49     4.00
3.25     YES
 L0010329         0   0.12030E-06  459380.3 3767840.5   318.0     3.49     4.00
3.25     YES
 L0010330         0   0.12030E-06  459380.4 3767832.0   317.9     3.49     4.00
3.25     YES
 L0010331         0   0.12030E-06  459380.4 3767823.4   317.7     3.49     4.00
3.25     YES
 L0010332         0   0.12030E-06  459380.5 3767814.8   317.5     3.49     4.00
3.25     YES
 L0010333         0   0.12030E-06  459380.6 3767806.2   317.4     3.49     4.00
3.25     YES
```



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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*


                                                        *** VOLUME SOURCE DATA ***

               NUMBER EMISSION RATE                     BASE    RELEASE    INIT.
INIT.   URBAN  EMISSION RATE
   SOURCE       PART.  (GRAMS/SEC)     X        Y      ELEV.   HEIGHT      SY
SZ     SOURCE  SCALAR VARY
     ID         CATS.               (METERS) (METERS) (METERS) (METERS) (METERS)
(METERS)             BY
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - -

 L0010334         0   0.12030E-06  459380.7 3767797.6   317.3     3.49     4.00
3.25     YES
 L0010335         0   0.12030E-06  459380.8 3767789.0   317.2     3.49     4.00
3.25     YES
 L0010336         0   0.12030E-06  459380.8 3767780.4   317.1     3.49     4.00
3.25     YES
```

L0010337	0	0.12030E-06	459380.9	3767771.8	317.0	3.49	4.00	3.25 YES
L0010338	0	0.12030E-06	459381.0	3767763.2	317.0	3.49	4.00	3.25 YES
L0010339	0	0.12030E-06	459381.1	3767754.6	317.0	3.49	4.00	3.25 YES
L0010340	0	0.12030E-06	459381.1	3767746.1	317.0	3.49	4.00	3.25 YES
L0010341	0	0.12030E-06	459381.2	3767737.5	317.0	3.49	4.00	3.25 YES
L0010342	0	0.12030E-06	459381.3	3767728.9	317.0	3.49	4.00	3.25 YES
L0010343	0	0.12030E-06	459381.4	3767720.3	317.0	3.49	4.00	3.25 YES
L0010344	0	0.12030E-06	459381.5	3767711.7	317.1	3.49	4.00	3.25 YES
L0010345	0	0.12030E-06	459381.5	3767703.1	317.2	3.49	4.00	3.25 YES
L0010346	0	0.12030E-06	459381.6	3767694.5	317.3	3.49	4.00	3.25 YES
L0010347	0	0.12030E-06	459381.7	3767685.9	317.4	3.49	4.00	3.25 YES
L0010348	0	0.12030E-06	459381.8	3767677.3	317.6	3.49	4.00	3.25 YES
L0010349	0	0.12030E-06	459381.9	3767668.8	317.8	3.49	4.00	3.25 YES
L0010350	0	0.12030E-06	459381.9	3767660.2	317.9	3.49	4.00	3.25 YES
L0010351	0	0.12030E-06	459382.0	3767651.6	318.1	3.49	4.00	3.25 YES
L0010352	0	0.12030E-06	459382.1	3767643.0	318.2	3.49	4.00	3.25 YES
L0010353	0	0.12030E-06	459382.2	3767634.4	318.3	3.49	4.00	3.25 YES
L0010354	0	0.12030E-06	459382.2	3767625.8	318.4	3.49	4.00	3.25 YES
L0010355	0	0.20440E-06	459380.6	3767819.5	317.6	3.49	4.00	3.25 YES
L0010356	0	0.20440E-06	459380.7	3767810.9	317.5	3.49	4.00	3.25 YES
L0010357	0	0.20440E-06	459380.8	3767802.3	317.3	3.49	4.00	3.25 YES
L0010358	0	0.20440E-06	459380.8	3767793.7	317.2	3.49	4.00	3.25 YES
L0010359	0	0.20440E-06	459380.9	3767785.1	317.1	3.49	4.00	3.25 YES
L0010360	0	0.20440E-06	459381.0	3767776.5	317.0	3.49	4.00	3.25 YES

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 L0010361         0   0.20440E-06  459381.1 3767767.9   317.0     3.49     4.00
3.25     YES
 L0010362         0   0.20440E-06  459381.1 3767759.4   317.0     3.49     4.00
3.25     YES
 L0010363         0   0.20440E-06  459381.2 3767750.8   317.0     3.49     4.00
3.25     YES
 L0010364         0   0.20440E-06  459381.3 3767742.2   317.0     3.49     4.00
3.25     YES
 L0010365         0   0.20440E-06  459381.4 3767733.6   317.0     3.49     4.00
3.25     YES
 L0010366         0   0.20440E-06  459381.4 3767725.0   317.0     3.49     4.00
3.25     YES
 L0010367         0   0.20440E-06  459381.5 3767716.4   317.0     3.49     4.00
3.25     YES
 L0010368         0   0.20440E-06  459381.6 3767707.8   317.1     3.49     4.00
3.25     YES
 L0010369         0   0.20440E-06  459381.7 3767699.2   317.2     3.49     4.00
3.25     YES
 L0010370         0   0.20440E-06  459381.7 3767690.6   317.4     3.49     4.00
3.25     YES
 L0010371         0   0.20440E-06  459381.8 3767682.0   317.5     3.49     4.00
3.25     YES
 L0010372         0   0.20440E-06  459381.9 3767673.5   317.7     3.49     4.00
3.25     YES
 L0010373         0   0.20440E-06  459382.0 3767664.9   317.8     3.49     4.00
3.25     YES
 *** AERMOD - VERSION  18081 ***   *** C:\LAKES\AERMOD VIEW\12979 HRA\12979
HRA.ISC                          ***        10/07/19
 *** AERMET - VERSION  16216 ***   ***
                         ***       12:30:42

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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*


                                                    *** VOLUME SOURCE DATA ***

               NUMBER EMISSION RATE                     BASE    RELEASE    INIT.
INIT.   URBAN  EMISSION RATE
   SOURCE       PART.  (GRAMS/SEC)     X        Y      ELEV.   HEIGHT      SY
SZ     SOURCE  SCALAR VARY
     ID         CATS.               (METERS) (METERS) (METERS) (METERS) (METERS)
(METERS)             BY
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
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 L0010374         0   0.20440E-06  459382.0 3767656.3   318.0     3.49     4.00
3.25     YES
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L0010375	0	0.20440E-06	459382.1	3767647.7	318.1	3.49	4.00	3.25 YES
L0010376	0	0.20440E-06	459382.2	3767639.1	318.2	3.49	4.00	3.25 YES
L0010377	0	0.20440E-06	459382.3	3767630.5	318.4	3.49	4.00	3.25 YES
L0010378	0	0.40260E-07	459795.2	3767612.8	321.6	3.49	4.00	3.25 YES
L0010379	0	0.40260E-07	459786.6	3767612.7	321.4	3.49	4.00	3.25 YES
L0010380	0	0.40260E-07	459778.0	3767612.6	321.5	3.49	4.00	3.25 YES
L0010381	0	0.40260E-07	459769.4	3767612.6	321.5	3.49	4.00	3.25 YES
L0010382	0	0.40260E-07	459760.9	3767612.5	321.5	3.49	4.00	3.25 YES
L0010383	0	0.40260E-07	459752.3	3767612.4	321.4	3.49	4.00	3.25 YES
L0010384	0	0.40260E-07	459743.7	3767612.3	321.2	3.49	4.00	3.25 YES
L0010385	0	0.40260E-07	459735.1	3767612.3	321.1	3.49	4.00	3.25 YES
L0010386	0	0.40260E-07	459726.5	3767612.2	320.9	3.49	4.00	3.25 YES
L0010387	0	0.40260E-07	459717.9	3767612.1	320.8	3.49	4.00	3.25 YES
L0010388	0	0.40260E-07	459709.3	3767612.1	320.7	3.49	4.00	3.25 YES
L0010389	0	0.40260E-07	459700.7	3767612.0	320.5	3.49	4.00	3.25 YES
L0010390	0	0.40260E-07	459692.1	3767611.9	320.5	3.49	4.00	3.25 YES
L0010391	0	0.40260E-07	459683.5	3767611.8	320.5	3.49	4.00	3.25 YES
L0010392	0	0.79700E-07	459406.5	3767592.4	320.1	3.49	4.00	3.25 YES
L0010393	0	0.79700E-07	459415.1	3767592.5	320.1	3.49	4.00	3.25 YES
L0010394	0	0.79700E-07	459423.7	3767592.5	320.1	3.49	4.00	3.25 YES
L0010395	0	0.79700E-07	459432.3	3767592.6	320.1	3.49	4.00	3.25 YES
L0010396	0	0.79700E-07	459440.9	3767592.7	320.1	3.49	4.00	3.25 YES
L0010397	0	0.79700E-07	459449.5	3767592.7	320.1	3.49	4.00	3.25 YES
L0010398	0	0.79700E-07	459458.1	3767592.8	320.1	3.49	4.00	3.25 YES

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 L0010399         0   0.79700E-07  459466.6 3767592.9   320.1     3.49     4.00
3.25     YES
 L0010400         0   0.79700E-07  459475.2 3767592.9   320.1     3.49     4.00
3.25     YES
 L0010401         0   0.79700E-07  459483.8 3767593.0   320.1     3.49     4.00
3.25     YES
 L0010402         0   0.79700E-07  459492.4 3767593.1   320.1     3.49     4.00
3.25     YES
 L0010403         0   0.79700E-07  459501.0 3767593.1   320.1     3.49     4.00
3.25     YES
 L0010404         0   0.79700E-07  459509.6 3767593.2   320.0     3.49     4.00
3.25     YES
 L0010405         0   0.79700E-07  459518.2 3767593.3   320.0     3.49     4.00
3.25     YES
 L0010406         0   0.79700E-07  459526.8 3767593.3   320.0     3.49     4.00
3.25     YES
 L0010407         0   0.79700E-07  459535.4 3767593.4   320.0     3.49     4.00
3.25     YES
 L0010408         0   0.79700E-07  459544.0 3767593.5   320.0     3.49     4.00
3.25     YES
 L0010409         0   0.79700E-07  459552.5 3767593.5   320.0     3.49     4.00
3.25     YES
 L0010410         0   0.79700E-07  459561.1 3767593.6   320.0     3.49     4.00
3.25     YES
 L0010411         0   0.79700E-07  459569.7 3767593.7   320.0     3.49     4.00
3.25     YES
 L0010412         0   0.79700E-07  459578.3 3767593.7   320.0     3.49     4.00
3.25     YES
 L0010413         0   0.79700E-07  459586.9 3767593.8   320.0     3.49     4.00
3.25     YES
 *** AERMOD - VERSION  18081 ***   *** C:\LAKES\AERMOD VIEW\12979 HRA\12979
HRA.ISC                          ***        10/07/19
 *** AERMET - VERSION  16216 ***   ***
                       ***        12:30:42

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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*


                                                      *** VOLUME SOURCE DATA ***

              NUMBER EMISSION RATE                    BASE    RELEASE    INIT.
INIT.   URBAN  EMISSION RATE
   SOURCE       PART.  (GRAMS/SEC)     X        Y      ELEV.   HEIGHT      SY
SZ     SOURCE  SCALAR VARY
     ID         CATS.               (METERS) (METERS) (METERS) (METERS) (METERS)
(METERS)             BY
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L0010414	0	0.79700E-07	459595.5	3767593.9	320.0	3.49	4.00	3.25 YES
L0010415	0	0.79700E-07	459604.1	3767593.9	320.1	3.49	4.00	3.25 YES
L0010416	0	0.79700E-07	459612.7	3767594.0	320.1	3.49	4.00	3.25 YES
L0010417	0	0.79700E-07	459621.3	3767594.1	320.1	3.49	4.00	3.25 YES
L0010418	0	0.79700E-07	459629.8	3767594.1	320.1	3.49	4.00	3.25 YES
L0010419	0	0.79700E-07	459638.4	3767594.2	320.1	3.49	4.00	3.25 YES
L0010420	0	0.79700E-07	459647.0	3767594.3	320.3	3.49	4.00	3.25 YES
L0010421	0	0.79700E-07	459655.6	3767594.3	320.6	3.49	4.00	3.25 YES
L0010422	0	0.79700E-07	459664.2	3767594.4	320.8	3.49	4.00	3.25 YES
L0010423	0	0.79700E-07	459672.8	3767594.5	321.0	3.49	4.00	3.25 YES
L0010424	0	0.79700E-07	459681.4	3767594.5	321.0	3.49	4.00	3.25 YES
L0010425	0	0.79700E-07	459690.0	3767594.6	321.0	3.49	4.00	3.25 YES
L0010426	0	0.79700E-07	459698.6	3767594.7	321.0	3.49	4.00	3.25 YES
L0010427	0	0.79700E-07	459707.2	3767594.7	321.0	3.49	4.00	3.25 YES
L0010428	0	0.79700E-07	459715.7	3767594.8	321.0	3.49	4.00	3.25 YES
L0010429	0	0.79700E-07	459724.3	3767594.9	321.0	3.49	4.00	3.25 YES
L0010430	0	0.79700E-07	459732.9	3767594.9	321.2	3.49	4.00	3.25 YES
L0010431	0	0.79700E-07	459741.5	3767595.0	321.4	3.49	4.00	3.25 YES
L0010432	0	0.79700E-07	459750.1	3767595.1	321.7	3.49	4.00	3.25 YES
L0010433	0	0.79700E-07	459758.7	3767595.1	322.0	3.49	4.00	3.25 YES
L0010434	0	0.79700E-07	459767.3	3767595.2	322.0	3.49	4.00	3.25 YES
L0010435	0	0.79700E-07	459775.9	3767595.3	322.0	3.49	4.00	3.25 YES
L0010436	0	0.79700E-07	459784.5	3767595.3	322.0	3.49	4.00	3.25 YES

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 L0010437         0   0.79700E-07  459793.1 3767595.4   322.0     3.49     4.00
3.25     YES
 L0010438         0   0.10450E-06  459800.1 3767594.5   322.0     3.49     7.44
3.25     YES
 L0010439         0   0.10450E-06  459800.3 3767578.5   322.0     3.49     7.44
3.25     YES
 L0010440         0   0.10450E-06  459800.6 3767562.5   322.1     3.49     7.44
3.25     YES
 L0010441         0   0.10450E-06  459800.9 3767546.5   322.7     3.49     7.44
3.25     YES
 L0010442         0   0.10450E-06  459801.1 3767530.5   323.0     3.49     7.44
3.25     YES
 L0010443         0   0.10450E-06  459801.4 3767514.5   323.0     3.49     7.44
3.25     YES
 L0010444         0   0.10450E-06  459801.7 3767498.5   323.3     3.49     7.44
3.25     YES
 L0010445         0   0.10450E-06  459801.9 3767482.5   323.8     3.49     7.44
3.25     YES
 L0010446         0   0.10450E-06  459802.2 3767466.5   324.3     3.49     7.44
3.25     YES
 L0010447         0   0.10450E-06  459802.4 3767450.5   324.9     3.49     7.44
3.25     YES
 L0010448         0   0.10450E-06  459802.7 3767434.5   325.4     3.49     7.44
3.25     YES
 L0010449         0   0.10450E-06  459803.0 3767418.5   325.9     3.49     7.44
3.25     YES
 L0010450         0   0.10450E-06  459803.2 3767402.5   326.5     3.49     7.44
3.25     YES
 L0010451         0   0.10450E-06  459803.5 3767386.5   327.0     3.49     7.44
3.25     YES
 L0010452         0   0.10450E-06  459803.8 3767370.5   327.5     3.49     7.44
3.25     YES
 L0010453         0   0.10450E-06  459804.6 3767354.5   328.1     3.49     7.44
3.25     YES
 *** AERMOD - VERSION  18081 ***   *** C:\LAKES\AERMOD VIEW\12979 HRA\12979
HRA.ISC                         ***        10/07/19
 *** AERMET - VERSION  16216 ***   ***
                          ***        12:30:42

                                   PAGE  12
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*


                                                    *** VOLUME SOURCE DATA ***

               NUMBER EMISSION RATE                    BASE    RELEASE    INIT.
INIT.   URBAN  EMISSION RATE
   SOURCE       PART.  (GRAMS/SEC)     X         Y      ELEV.   HEIGHT      SY
```

SZ	SOURCE ID	SCALAR CATS.	VARY BY	(METERS)	(METERS)	(METERS)	(METERS)	(METERS)	(METERS)
	L0010454	0	0.10450E-06	459805.3	3767338.6	328.6	3.49	7.44	3.25 YES
	L0010455	0	0.10450E-06	459806.1	3767322.6	329.1	3.49	7.44	3.25 YES
	L0010456	0	0.10450E-06	459806.8	3767306.6	329.7	3.49	7.44	3.25 YES
	L0010457	0	0.10450E-06	459807.6	3767290.6	330.3	3.49	7.44	3.25 YES
	L0010458	0	0.10450E-06	459808.3	3767274.6	331.0	3.49	7.44	3.25 YES
	L0010459	0	0.10450E-06	459809.1	3767258.6	331.6	3.49	7.44	3.25 YES
	L0010460	0	0.10450E-06	459809.5	3767242.6	332.1	3.49	7.44	3.25 YES
	L0010461	0	0.10450E-06	459809.8	3767226.7	332.7	3.49	7.44	3.25 YES
	L0010462	0	0.10450E-06	459810.1	3767210.7	333.2	3.49	7.44	3.25 YES
	L0010463	0	0.10450E-06	459810.4	3767194.7	333.6	3.49	7.44	3.25 YES
	L0010464	0	0.10450E-06	459810.8	3767178.7	333.9	3.49	7.44	3.25 YES
	L0010465	0	0.10450E-06	459811.1	3767162.7	334.5	3.49	7.44	3.25 YES
	L0010466	0	0.10450E-06	459811.4	3767146.7	335.0	3.49	7.44	3.25 YES
	L0010467	0	0.10450E-06	459811.7	3767130.7	335.7	3.49	7.44	3.25 YES
	L0010468	0	0.10450E-06	459812.0	3767114.7	336.4	3.49	7.44	3.25 YES
	L0010469	0	0.10450E-06	459812.3	3767098.7	337.3	3.49	7.44	3.25 YES
	L0010470	0	0.10450E-06	459812.6	3767082.7	338.1	3.49	7.44	3.25 YES
	L0010471	0	0.10450E-06	459813.8	3767066.7	338.7	3.49	7.44	3.25 YES
	L0010472	0	0.10450E-06	459815.2	3767050.8	339.2	3.49	7.44	3.25 YES
	L0010473	0	0.10450E-06	459816.5	3767034.8	339.8	3.49	7.44	3.25 YES
	L0010474	0	0.10450E-06	459817.9	3767018.9	340.3	3.49	7.44	3.25 YES

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 L0010475         0   0.10450E-06  459819.2 3767003.0   340.8     3.49     7.44
3.25     YES
 L0010476         0   0.10450E-06  459820.6 3766987.0   341.0     3.49     7.44
3.25     YES
 L0010477         0   0.10450E-06  459821.9 3766971.1   341.0     3.49     7.44
3.25     YES
 L0010478         0   0.10450E-06  459823.3 3766955.1   341.8     3.49     7.44
3.25     YES
 L0010479         0   0.10450E-06  459826.9 3766939.6   342.8     3.49     7.44
3.25     YES
 L0010480         0   0.10450E-06  459830.8 3766924.0   343.8     3.49     7.44
3.25     YES
 L0010481         0   0.10450E-06  459834.7 3766908.5   344.9     3.49     7.44
3.25     YES
 L0010482         0   0.10450E-06  459838.6 3766893.0   346.2     3.49     7.44
3.25     YES
 L0010483         0   0.10450E-06  459842.5 3766877.5   347.7     3.49     7.44
3.25     YES
 L0010484         0   0.10450E-06  459846.3 3766862.0   348.3     3.49     7.44
3.25     YES
 L0010485         0   0.10450E-06  459850.4 3766846.5   349.0     3.49     7.44
3.25     YES
 L0010486         0   0.10450E-06  459855.4 3766831.3   349.7     3.49     7.44
3.25     YES
 L0010487         0   0.10450E-06  459860.3 3766816.1   350.4     3.49     7.44
3.25     YES
 L0010488         0   0.10450E-06  459865.3 3766800.9   351.8     3.49     7.44
3.25     YES
 L0010489         0   0.10450E-06  459870.2 3766785.6   353.1     3.49     7.44
3.25     YES
 L0010490         0   0.10450E-06  459875.2 3766770.4   355.4     3.49     7.44
3.25     YES
 L0010491         0   0.10450E-06  459880.0 3766755.2   357.2     3.49     7.44
3.25     YES
 L0010492         0   0.10450E-06  459883.7 3766739.6   359.9     3.49     7.44
3.25     YES
 L0010493         0   0.10450E-06  459887.4 3766724.0   362.3     3.49     7.44
3.25     YES
 *** AERMOD - VERSION  18081 ***   *** C:\LAKES\AERMOD VIEW\12979 HRA\12979
HRA.ISC                         ***        10/07/19
 *** AERMET - VERSION  16216 ***   ***
                          ***        12:30:42

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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*


                                                  *** VOLUME SOURCE DATA ***
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SOURCE ID	NUMBER PART. SCALAR CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE VARY BY
L0010494	0	0.10450E-06	459891.0	3766708.5	363.9	3.49	7.44	3.25	YES
L0010495	0	0.10450E-06	459894.7	3766692.9	364.9	3.49	7.44	3.25	YES
L0010496	0	0.10450E-06	459898.3	3766677.3	365.9	3.49	7.44	3.25	YES
L0010497	0	0.10450E-06	459901.9	3766661.7	367.1	3.49	7.44	3.25	YES
L0010498	0	0.10450E-06	459905.5	3766646.1	368.9	3.49	7.44	3.25	YES
L0010499	0	0.10450E-06	459909.1	3766630.5	371.1	3.49	7.44	3.25	YES
L0010500	0	0.10450E-06	459912.6	3766614.9	374.1	3.49	7.44	3.25	YES
L0010501	0	0.10450E-06	459916.2	3766599.3	377.1	3.49	7.44	3.25	YES
L0010502	0	0.10450E-06	459918.5	3766583.5	379.3	3.49	7.44	3.25	YES
L0010503	0	0.10450E-06	459920.4	3766567.6	381.8	3.49	7.44	3.25	YES
L0010504	0	0.10450E-06	459922.3	3766551.7	384.4	3.49	7.44	3.25	YES
L0010505	0	0.10450E-06	459924.2	3766535.8	386.1	3.49	7.44	3.25	YES
L0010506	0	0.10450E-06	459926.1	3766520.0	387.5	3.49	7.44	3.25	YES
L0010507	0	0.10450E-06	459928.0	3766504.1	389.2	3.49	7.44	3.25	YES
L0010508	0	0.10450E-06	459929.9	3766488.2	390.5	3.49	7.44	3.25	YES
L0010509	0	0.10450E-06	459931.8	3766472.3	391.6	3.49	7.44	3.25	YES
L0010510	0	0.10450E-06	459933.7	3766456.4	392.6	3.49	7.44	3.25	YES
L0010511	0	0.10450E-06	459935.6	3766440.5	391.4	3.49	7.44	3.25	YES
L0010512	0	0.10450E-06	459937.2	3766424.6	390.3	3.49	7.44	3.25	YES

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 L0010513         0   0.10450E-06  459938.8 3766408.7   389.5     3.49     7.44
3.25     YES
 L0010514         0   0.10450E-06  459940.4 3766392.8   388.6     3.49     7.44
3.25     YES
 L0010515         0   0.10450E-06  459942.0 3766376.8   386.8     3.49     7.44
3.25     YES
 L0010516         0   0.10450E-06  459943.6 3766360.9   385.4     3.49     7.44
3.25     YES
 L0010517         0   0.10450E-06  459945.2 3766345.0   384.3     3.49     7.44
3.25     YES
 L0010518         0   0.10450E-06  459946.8 3766329.1   382.6     3.49     7.44
3.25     YES
 L0010519         0   0.10450E-06  459948.4 3766313.2   380.5     3.49     7.44
3.25     YES
 L0010520         0   0.10450E-06  459950.0 3766297.2   378.8     3.49     7.44
3.25     YES
 L0010521         0   0.10450E-06  459951.6 3766281.3   377.3     3.49     7.44
3.25     YES
 L0010522         0   0.10450E-06  459953.2 3766265.4   375.7     3.49     7.44
3.25     YES
 L0010523         0   0.10450E-06  459954.8 3766249.5   373.9     3.49     7.44
3.25     YES
 L0010524         0   0.10450E-06  459956.4 3766233.6   372.9     3.49     7.44
3.25     YES
 L0010525         0   0.10450E-06  459958.7 3766217.7   372.3     3.49     7.44
3.25     YES
 L0010526         0   0.10450E-06  459961.1 3766201.9   371.9     3.49     7.44
3.25     YES
 L0010527         0   0.10450E-06  459963.5 3766186.1   371.6     3.49     7.44
3.25     YES
 L0010528         0   0.10450E-06  459965.9 3766170.3   370.2     3.49     7.44
3.25     YES
 L0010529         0   0.10450E-06  459968.3 3766154.5   368.8     3.49     7.44
3.25     YES
 L0010530         0   0.10450E-06  459970.9 3766138.7   367.4     3.49     7.44
3.25     YES
 L0010531         0   0.10450E-06  459974.3 3766123.1   366.3     3.49     7.44
3.25     YES
 L0010532         0   0.10450E-06  459977.8 3766107.4   365.9     3.49     7.44
3.25     YES
 L0010533         0   0.10450E-06  459983.0 3766092.4   364.9     3.49     7.44
3.25     YES
 *** AERMOD - VERSION  18081 ***   *** C:\LAKES\AERMOD VIEW\12979 HRA\12979
HRA.ISC                         ***        10/07/19
 *** AERMET - VERSION  16216 ***   ***
                          ***       12:30:42
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER EMISSION RATE PART. SCALAR CATS.	EMISSION RATE (GRAMS/SEC) VARY BY	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE
L0010534	0	0.10450E-06	459990.2	3766078.1	363.0	3.49	7.44	3.25	YES
L0010535	0	0.10450E-06	459996.6	3766063.5	360.9	3.49	7.44	3.25	YES
L0010536	0	0.10450E-06	460002.5	3766048.6	360.1	3.49	7.44	3.25	YES
L0010537	0	0.10450E-06	460008.4	3766033.7	359.8	3.49	7.44	3.25	YES
L0010538	0	0.10450E-06	460014.8	3766019.2	359.7	3.49	7.44	3.25	YES
L0010539	0	0.10450E-06	460024.5	3766006.4	359.7	3.49	7.44	3.25	YES
L0010540	0	0.10450E-06	460034.1	3765993.6	360.3	3.49	7.44	3.25	YES
L0010541	0	0.10450E-06	460043.8	3765980.9	360.6	3.49	7.44	3.25	YES
L0010542	0	0.10450E-06	460053.4	3765968.1	360.3	3.49	7.44	3.25	YES
L0010543	0	0.10450E-06	460063.1	3765955.4	359.5	3.49	7.44	3.25	YES
L0010544	0	0.10450E-06	460072.7	3765942.6	358.2	3.49	7.44	3.25	YES
L0010545	0	0.10450E-06	460082.4	3765929.8	356.9	3.49	7.44	3.25	YES
L0010546	0	0.10450E-06	460092.0	3765917.1	356.2	3.49	7.44	3.25	YES
L0010547	0	0.10450E-06	460101.7	3765904.3	356.1	3.49	7.44	3.25	YES
L0010548	0	0.10450E-06	460111.5	3765891.7	355.4	3.49	7.44	3.25	YES
L0010549	0	0.10450E-06	460121.5	3765879.2	354.6	3.49	7.44	3.25	YES
L0010550	0	0.10450E-06	460131.4	3765866.6	353.7	3.49	7.44	3.25	YES

L0010551	0	0.10450E-06	460141.3	3765854.0	352.3	3.49	7.44	3.25 YES
L0010552	0	0.10450E-06	460151.2	3765841.5	351.3	3.49	7.44	3.25 YES
L0010553	0	0.10450E-06	460161.1	3765828.9	349.6	3.49	7.44	3.25 YES
L0010554	0	0.10450E-06	460171.0	3765816.4	348.2	3.49	7.44	3.25 YES
L0010555	0	0.10450E-06	460180.8	3765803.7	346.9	3.49	7.44	3.25 YES
L0010556	0	0.10450E-06	460190.5	3765791.0	346.0	3.49	7.44	3.25 YES
L0010557	0	0.10450E-06	460200.3	3765778.3	345.1	3.49	7.44	3.25 YES
L0010558	0	0.10450E-06	460209.8	3765765.4	344.0	3.49	7.44	3.25 YES
L0010559	0	0.10450E-06	460218.6	3765752.1	343.1	3.49	7.44	3.25 YES
L0010560	0	0.10450E-06	460227.5	3765738.8	342.2	3.49	7.44	3.25 YES
L0010561	0	0.10450E-06	460236.4	3765725.5	340.6	3.49	7.44	3.25 YES
L0010562	0	0.10450E-06	460245.3	3765712.2	338.7	3.49	7.44	3.25 YES
L0010563	0	0.10450E-06	460254.1	3765698.9	336.7	3.49	7.44	3.25 YES
L0010564	0	0.10450E-06	460261.4	3765684.8	335.2	3.49	7.44	3.25 YES
L0010565	0	0.10450E-06	460266.2	3765669.5	334.1	3.49	7.44	3.25 YES
L0010566	0	0.10450E-06	460271.0	3765654.3	333.0	3.49	7.44	3.25 YES
L0010567	0	0.10450E-06	460275.9	3765639.0	331.5	3.49	7.44	3.25 YES
L0010568	0	0.10450E-06	460280.8	3765623.8	329.9	3.49	7.44	3.25 YES
L0010569	0	0.10450E-06	460285.9	3765608.6	328.4	3.49	7.44	3.25 YES
L0010570	0	0.10450E-06	460290.8	3765593.4	326.9	3.49	7.44	3.25 YES
L0010571	0	0.10450E-06	460294.9	3765577.9	325.7	3.49	7.44	3.25 YES
L0010572	0	0.10450E-06	460299.1	3765562.5	325.1	3.49	7.44	3.25 YES
L0010573	0	0.10450E-06	460303.3	3765547.0	324.0	3.49	7.44	3.25 YES

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER EMISSION RATE PART. SCALAR CATS.	EMISSION RATE (GRAMS/SEC) VARY BY	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE
L0010574	0	0.10450E-06	460307.4	3765531.6	322.6	3.49	7.44	3.25	YES
L0010575	0	0.10450E-06	460311.6	3765516.1	320.6	3.49	7.44	3.25	YES
L0010576	0	0.10450E-06	460315.7	3765500.7	318.4	3.49	7.44	3.25	YES
L0010577	0	0.10450E-06	460319.9	3765485.2	317.3	3.49	7.44	3.25	YES
L0010578	0	0.10450E-06	460324.4	3765469.9	316.9	3.49	7.44	3.25	YES
L0010579	0	0.10450E-06	460329.2	3765454.6	316.6	3.49	7.44	3.25	YES
L0010580	0	0.10450E-06	460334.0	3765439.4	316.1	3.49	7.44	3.25	YES
L0010581	0	0.10450E-06	460338.8	3765424.1	315.2	3.49	7.44	3.25	YES
L0010582	0	0.10450E-06	460343.7	3765408.9	314.2	3.49	7.44	3.25	YES
L0010583	0	0.10450E-06	460348.5	3765393.6	313.2	3.49	7.44	3.25	YES
L0010584	0	0.10450E-06	460354.1	3765378.6	312.2	3.49	7.44	3.25	YES
L0010585	0	0.10450E-06	460360.5	3765364.0	311.6	3.49	7.44	3.25	YES
L0010586	0	0.10450E-06	460367.0	3765349.4	311.1	3.49	7.44	3.25	YES
L0010587	0	0.10450E-06	460373.5	3765334.7	310.6	3.49	7.44	3.25	YES
L0010588	0	0.10450E-06	460379.9	3765320.1	310.1	3.49	7.44	3.25	YES

L0010589	0	0.10450E-06	460386.4	3765305.5	309.6	3.49	7.44	3.25 YES
L0010590	0	0.10450E-06	460392.9	3765290.8	309.2	3.49	7.44	3.25 YES
L0010591	0	0.10450E-06	460399.3	3765276.2	308.7	3.49	7.44	3.25 YES
L0010592	0	0.10450E-06	460405.8	3765261.6	308.2	3.49	7.44	3.25 YES
L0010593	0	0.10450E-06	460412.3	3765246.9	307.7	3.49	7.44	3.25 YES
L0010594	0	0.10450E-06	460420.5	3765233.3	307.2	3.49	7.44	3.25 YES
L0010595	0	0.10450E-06	460429.4	3765220.0	306.5	3.49	7.44	3.25 YES
L0010596	0	0.10450E-06	460438.4	3765206.7	305.7	3.49	7.44	3.25 YES
L0010597	0	0.10450E-06	460447.3	3765193.4	305.1	3.49	7.44	3.25 YES
L0010598	0	0.10450E-06	460456.2	3765180.2	304.9	3.49	7.44	3.25 YES
L0010599	0	0.10450E-06	460465.2	3765166.9	304.5	3.49	7.44	3.25 YES
L0010600	0	0.10450E-06	460474.1	3765153.6	303.8	3.49	7.44	3.25 YES
L0010601	0	0.10450E-06	460483.1	3765140.4	303.1	3.49	7.44	3.25 YES
L0010602	0	0.10450E-06	460492.1	3765127.2	302.9	3.49	7.44	3.25 YES
L0010603	0	0.10450E-06	460501.2	3765114.0	302.5	3.49	7.44	3.25 YES
L0010604	0	0.10450E-06	460510.2	3765100.8	302.0	3.49	7.44	3.25 YES
L0010605	0	0.10450E-06	460519.3	3765087.6	301.8	3.49	7.44	3.25 YES
L0010606	0	0.10450E-06	460528.4	3765074.4	301.4	3.49	7.44	3.25 YES
L0010607	0	0.10450E-06	460537.4	3765061.3	301.0	3.49	7.44	3.25 YES
L0010608	0	0.10450E-06	460546.5	3765048.1	300.8	3.49	7.44	3.25 YES
L0010609	0	0.10450E-06	460555.6	3765034.9	300.3	3.49	7.44	3.25 YES
L0010610	0	0.10450E-06	460564.6	3765021.7	300.0	3.49	7.44	3.25 YES
L0010611	0	0.10450E-06	460573.7	3765008.5	299.6	3.49	7.44	3.25 YES
L0010612	0	0.10450E-06	460582.8	3764995.3	298.9	3.49	7.44	3.25 YES

 L0010613   0   0.10450E-06 460591.8 3764982.1   298.3   3.49   7.44
3.25   YES

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                                                  *** VOLUME SOURCE DATA ***

               NUMBER EMISSION RATE   BASE   RELEASE   INIT.
INIT.   URBAN EMISSION RATE
   SOURCE   PART. (GRAMS/SEC)   X   Y   ELEV.   HEIGHT   SY
SZ   SOURCE SCALAR VARY
     ID   CATS.   (METERS) (METERS) (METERS) (METERS) (METERS)
(METERS)   BY
 -
- -

 L0010614   0   0.10450E-06 460600.9 3764969.0   298.0   3.49   7.44
3.25   YES
 L0010615   0   0.10450E-06 460610.0 3764955.8   297.6   3.49   7.44
3.25   YES
 L0010616   0   0.10450E-06 460619.1 3764942.7   296.9   3.49   7.44
3.25   YES
 L0010617   0   0.10450E-06 460628.2 3764929.5   296.2   3.49   7.44
3.25   YES
 L0010618   0   0.10450E-06 460637.3 3764916.3   295.4   3.49   7.44
3.25   YES
 L0010619   0   0.10450E-06 460646.4 3764903.2   294.7   3.49   7.44
3.25   YES
 L0010620   0   0.10450E-06 460655.5 3764890.0   293.9   3.49   7.44
3.25   YES
 L0010621   0   0.10450E-06 460664.6 3764876.9   293.2   3.49   7.44
3.25   YES
 L0010622   0   0.10450E-06 460673.7 3764863.7   292.5   3.49   7.44
3.25   YES
 L0010623   0   0.10450E-06 460682.8 3764850.5   292.2   3.49   7.44
3.25   YES
 L0010624   0   0.10450E-06 460691.9 3764837.4   292.0   3.49   7.44
3.25   YES
 L0010625   0   0.10450E-06 460701.0 3764824.2   291.9   3.49   7.44
3.25   YES
 L0010626   0   0.10450E-06 460710.1 3764811.0   291.4   3.49   7.44
3.25   YES

L0010627	0	0.10450E-06	460719.2	3764797.9	291.0	3.49	7.44	3.25 YES
L0010628	0	0.10450E-06	460729.4	3764785.6	290.8	3.49	7.44	3.25 YES
L0010629	0	0.10450E-06	460740.1	3764773.7	290.3	3.49	7.44	3.25 YES
L0010630	0	0.10450E-06	460750.8	3764761.8	290.0	3.49	7.44	3.25 YES
L0010631	0	0.10450E-06	460761.5	3764749.9	290.0	3.49	7.44	3.25 YES
L0010632	0	0.10450E-06	460772.2	3764738.0	289.8	3.49	7.44	3.25 YES
L0010633	0	0.10450E-06	460783.1	3764726.4	289.3	3.49	7.44	3.25 YES
L0010634	0	0.10450E-06	460795.7	3764716.4	289.0	3.49	7.44	3.25 YES
L0010635	0	0.10450E-06	460808.2	3764706.5	288.7	3.49	7.44	3.25 YES
L0010636	0	0.10450E-06	460820.7	3764696.5	288.3	3.49	7.44	3.25 YES
L0010637	0	0.10450E-06	460833.4	3764686.8	288.0	3.49	7.44	3.25 YES
L0010638	0	0.10450E-06	460846.2	3764677.2	287.9	3.49	7.44	3.25 YES
L0010639	0	0.10450E-06	460859.0	3764667.6	287.6	3.49	7.44	3.25 YES
L0010640	0	0.10450E-06	460871.8	3764658.0	287.1	3.49	7.44	3.25 YES
L0010641	0	0.10450E-06	460884.2	3764647.9	287.0	3.49	7.44	3.25 YES
L0010642	0	0.10450E-06	460894.8	3764636.8	287.0	3.49	7.44	3.25 YES
L0010643	0	0.10450E-06	460887.0	3764622.8	286.9	3.49	7.44	3.25 YES
L0010644	0	0.10450E-06	460879.3	3764608.8	286.4	3.49	7.44	3.25 YES
L0010645	0	0.10450E-06	460871.6	3764594.7	286.0	3.49	7.44	3.25 YES
L0010646	0	0.10450E-06	460863.9	3764580.7	286.1	3.49	7.44	3.25 YES
L0010647	0	0.10450E-06	460856.2	3764566.7	286.0	3.49	7.44	3.25 YES
L0010648	0	0.10450E-06	460848.0	3764553.0	285.9	3.49	7.44	3.25 YES
L0010649	0	0.10450E-06	460839.4	3764539.5	286.0	3.49	7.44	3.25 YES
L0010650	0	0.10450E-06	460830.8	3764526.0	285.7	3.49	7.44	3.25 YES

 L0010651   0   0.10450E-06 460822.2 3764512.5   285.2   3.49   7.44
3.25   YES
 L0010652   0   0.10450E-06 460813.6 3764499.0   285.0   3.49   7.44
3.25   YES
 L0010653   0   0.10450E-06 460805.0 3764485.5   285.1   3.49   7.44
3.25   YES

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                                                    *** VOLUME SOURCE DATA ***

               NUMBER EMISSION RATE   BASE   RELEASE   INIT.
INIT.   URBAN EMISSION RATE
   SOURCE   PART. (GRAMS/SEC)   X   Y   ELEV.   HEIGHT   SY
SZ   SOURCE SCALAR VARY
     ID   CATS.   (METERS) (METERS) (METERS) (METERS) (METERS)
(METERS)   BY
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 L0010654   0   0.10450E-06 460796.4 3764472.0   284.9   3.49   7.44
3.25   YES
 L0010655   0   0.10450E-06 460787.8 3764458.5   284.8   3.49   7.44
3.25   YES
 L0010656   0   0.10450E-06 460779.2 3764445.0   285.0   3.49   7.44
3.25   YES
 L0010657   0   0.10450E-06 460770.6 3764431.6   284.7   3.49   7.44
3.25   YES
 L0010658   0   0.10450E-06 460761.9 3764418.1   284.6   3.49   7.44
3.25   YES
 L0010659   0   0.10450E-06 460753.3 3764404.6   284.5   3.49   7.44
3.25   YES
 L0010660   0   0.10450E-06 460744.7 3764391.1   284.2   3.49   7.44
3.25   YES
 L0010661   0   0.10450E-06 460736.1 3764377.6   284.0   3.49   7.44
3.25   YES
 L0010662   0   0.10450E-06 460727.5 3764364.1   284.0   3.49   7.44
3.25   YES
 L0010663   0   0.10450E-06 460718.9 3764350.6   283.8   3.49   7.44
3.25   YES
 L0010664   0   0.10450E-06 460710.7 3764336.9   283.5   3.49   7.44
3.25   YES

L0010665	0	0.10450E-06	460702.4	3764323.2	283.5	3.49	7.44	3.25 YES
L0010666	0	0.10450E-06	460694.1	3764309.5	283.4	3.49	7.44	3.25 YES
L0010667	0	0.10450E-06	460685.8	3764295.8	283.1	3.49	7.44	3.25 YES
L0010668	0	0.10450E-06	460677.6	3764282.1	283.2	3.49	7.44	3.25 YES
L0010669	0	0.10450E-06	460669.3	3764268.4	283.1	3.49	7.44	3.25 YES
L0010670	0	0.10450E-06	460661.0	3764254.7	282.6	3.49	7.44	3.25 YES
L0010671	0	0.10450E-06	460652.8	3764241.1	282.4	3.49	7.44	3.25 YES
L0010672	0	0.10450E-06	460644.5	3764227.4	282.4	3.49	7.44	3.25 YES
L0010673	0	0.10450E-06	460636.2	3764213.7	282.2	3.49	7.44	3.25 YES
L0010674	0	0.10450E-06	460627.9	3764200.0	282.0	3.49	7.44	3.25 YES
L0010675	0	0.10450E-06	460619.7	3764186.3	282.0	3.49	7.44	3.25 YES
L0010676	0	0.10450E-06	460611.4	3764172.6	281.9	3.49	7.44	3.25 YES
L0010677	0	0.10450E-06	460603.1	3764158.9	281.4	3.49	7.44	3.25 YES
L0010678	0	0.10450E-06	460594.8	3764145.2	281.0	3.49	7.44	3.25 YES
L0010679	0	0.10450E-06	460586.6	3764131.5	281.0	3.49	7.44	3.25 YES
L0010680	0	0.10450E-06	460578.3	3764117.8	281.0	3.49	7.44	3.25 YES
L0010681	0	0.10450E-06	460570.0	3764104.1	280.6	3.49	7.44	3.25 YES
L0010682	0	0.10450E-06	460561.7	3764090.4	280.1	3.49	7.44	3.25 YES
L0010683	0	0.10450E-06	460553.1	3764076.9	280.0	3.49	7.44	3.25 YES
L0010684	0	0.10450E-06	460544.4	3764063.5	280.0	3.49	7.44	3.25 YES
L0010685	0	0.10450E-06	460535.7	3764050.1	279.8	3.49	7.44	3.25 YES
L0010686	0	0.10450E-06	460527.0	3764036.6	279.3	3.49	7.44	3.25 YES
L0010687	0	0.10450E-06	460518.3	3764023.2	279.0	3.49	7.44	3.25 YES
L0010688	0	0.10450E-06	460509.6	3764009.8	279.0	3.49	7.44	3.25 YES

 L0010689   0   0.10450E-06 460501.2 3763996.2   279.0   3.49   7.44
3.25   YES
 L0010690   0   0.10450E-06 460492.9 3763982.5   278.8   3.49   7.44
3.25   YES
 L0010691   0   0.10450E-06 460484.6 3763968.8   278.9   3.49   7.44
3.25   YES
 L0010692   0   0.10450E-06 460476.3 3763955.2   278.7   3.49   7.44
3.25   YES
 L0010693   0   0.10450E-06 460466.3 3763942.7   278.6   3.49   7.44
3.25   YES

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                                                    *** VOLUME SOURCE DATA ***

              NUMBER EMISSION RATE   BASE   RELEASE   INIT.
INIT.   URBAN EMISSION RATE
   SOURCE   PART. (GRAMS/SEC)   X   Y   ELEV.   HEIGHT   SY
SZ   SOURCE SCALAR VARY
     ID   CATS.   (METERS) (METERS) (METERS) (METERS) (METERS)
(METERS)   BY
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 L0010694   0   0.10450E-06 460456.3 3763930.2   278.6   3.49   7.44
3.25   YES
 L0010695   0   0.10450E-06 460445.9 3763918.0   278.5   3.49   7.44
3.25   YES
 L0010696   0   0.10450E-06 460434.6 3763906.7   278.5   3.49   7.44
3.25   YES
 L0010697   0   0.10450E-06 460423.3 3763895.4   278.6   3.49   7.44
3.25   YES
 L0010698   0   0.10450E-06 460412.0 3763884.1   278.3   3.49   7.44
3.25   YES
 L0010699   0   0.10450E-06 460400.7 3763872.8   278.0   3.49   7.44
3.25   YES
 L0010700   0   0.10450E-06 460388.3 3763862.6   278.0   3.49   7.44
3.25   YES
 L0010701   0   0.10450E-06 460375.9 3763852.6   278.0   3.49   7.44
3.25   YES
 L0010702   0   0.10450E-06 460363.4 3763842.5   278.0   3.49   7.44
3.25   YES

L0010703	0	0.10450E-06	460350.9	3763832.5	278.0	3.49	7.44	3.25 YES
L0010704	0	0.10450E-06	460338.5	3763822.5	278.0	3.49	7.44	3.25 YES
L0010705	0	0.10450E-06	460326.0	3763812.4	277.9	3.49	7.44	3.25 YES
L0010706	0	0.10450E-06	460313.0	3763803.2	277.6	3.49	7.44	3.25 YES
L0010707	0	0.10450E-06	460299.2	3763795.1	277.3	3.49	7.44	3.25 YES
L0010708	0	0.10450E-06	460285.4	3763787.0	277.0	3.49	7.44	3.25 YES
L0010709	0	0.10450E-06	460271.6	3763778.9	276.8	3.49	7.44	3.25 YES
L0010710	0	0.10450E-06	460257.8	3763770.9	276.7	3.49	7.44	3.25 YES
L0010711	0	0.10450E-06	460244.0	3763762.7	276.9	3.49	7.44	3.25 YES
L0010712	0	0.10450E-06	460231.0	3763753.4	276.9	3.49	7.44	3.25 YES
L0010713	0	0.10450E-06	460218.0	3763744.1	276.6	3.49	7.44	3.25 YES
L0010714	0	0.10450E-06	460205.0	3763734.8	276.3	3.49	7.44	3.25 YES
L0010715	0	0.10450E-06	460192.0	3763725.5	276.0	3.49	7.44	3.25 YES
L0010716	0	0.10450E-06	460178.9	3763716.2	276.0	3.49	7.44	3.25 YES
L0010717	0	0.10450E-06	460165.9	3763706.9	276.0	3.49	7.44	3.25 YES
L0010718	0	0.10450E-06	460152.8	3763697.6	276.0	3.49	7.44	3.25 YES
L0010719	0	0.10450E-06	460139.8	3763688.4	276.0	3.49	7.44	3.25 YES
L0010720	0	0.10450E-06	460126.7	3763679.2	276.0	3.49	7.44	3.25 YES
L0010721	0	0.10450E-06	460113.6	3763669.9	276.0	3.49	7.44	3.25 YES
L0010722	0	0.10450E-06	460100.6	3763660.7	276.0	3.49	7.44	3.25 YES
L0010723	0	0.10450E-06	460087.5	3763651.5	276.0	3.49	7.44	3.25 YES
L0010724	0	0.10450E-06	460074.4	3763642.2	276.0	3.49	7.44	3.25 YES
L0010725	0	0.10450E-06	460061.4	3763633.0	276.0	3.49	7.44	3.25 YES
L0010726	0	0.10450E-06	460048.3	3763623.8	276.0	3.49	7.44	3.25 YES

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 L0010727         0   0.10450E-06  460035.2 3763614.5   276.0     3.49     7.44
3.25     YES
 L0010728         0   0.10450E-06  460022.2 3763605.3   276.0     3.49     7.44
3.25     YES
 L0010729         0   0.10450E-06  460009.1 3763596.1   276.0     3.49     7.44
3.25     YES
 L0010730         0   0.10450E-06  459996.0 3763586.8   276.0     3.49     7.44
3.25     YES
 L0010731         0   0.10450E-06  459983.0 3763577.6   276.0     3.49     7.44
3.25     YES
 L0010732         0   0.10450E-06  459969.9 3763568.4   277.1     3.49     7.44
3.25     YES
 L0010733         0   0.10450E-06  459956.8 3763559.1   277.8     3.49     7.44
3.25     YES
 *** AERMOD - VERSION  18081 ***   *** C:\LAKES\AERMOD VIEW\12979 HRA\12979
HRA.ISC                          ***        10/07/19
 *** AERMET - VERSION  16216 ***   ***
                         ***        12:30:42

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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*


                                                      *** VOLUME SOURCE DATA ***

               NUMBER EMISSION RATE                    BASE    RELEASE    INIT.
INIT.   URBAN  EMISSION RATE
   SOURCE       PART.  (GRAMS/SEC)     X        Y      ELEV.   HEIGHT      SY
SZ     SOURCE  SCALAR VARY
     ID         CATS.               (METERS) (METERS) (METERS) (METERS) (METERS)
(METERS)             BY
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 L0010734         0   0.10450E-06  459943.8 3763549.9   278.0     3.49     7.44
3.25     YES
 L0010735         0   0.10450E-06  459930.7 3763540.7   278.9     3.49     7.44
3.25     YES
 L0010736         0   0.24510E-06  459810.0 3767611.0   321.8     3.49     9.30
3.25     YES
 L0010737         0   0.24510E-06  459810.5 3767631.0   321.6     3.49     9.30
3.25     YES
 L0010738         0   0.24510E-06  459811.1 3767651.0   321.1     3.49     9.30
3.25     YES
 L0010739         0   0.24510E-06  459811.6 3767671.0   320.5     3.49     9.30
3.25     YES
 L0010740         0   0.24510E-06  459812.2 3767691.0   320.0     3.49     9.30
3.25     YES
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L0010741	0	0.24510E-06	459812.2	3767711.0	320.0	3.49	9.30	3.25 YES
L0010742	0	0.24510E-06	459812.1	3767731.0	319.5	3.49	9.30	3.25 YES
L0010743	0	0.24510E-06	459812.0	3767751.0	319.0	3.49	9.30	3.25 YES
L0010744	0	0.24510E-06	459811.9	3767771.0	318.8	3.49	9.30	3.25 YES
L0010745	0	0.24510E-06	459811.8	3767791.0	318.4	3.49	9.30	3.25 YES
L0010746	0	0.24510E-06	459811.8	3767811.0	318.1	3.49	9.30	3.25 YES
L0010747	0	0.24510E-06	459812.0	3767831.0	318.6	3.49	9.30	3.25 YES
L0010748	0	0.24510E-06	459812.1	3767851.0	318.9	3.49	9.30	3.25 YES
L0010749	0	0.24510E-06	459812.2	3767871.0	319.0	3.49	9.30	3.25 YES
L0010750	0	0.24510E-06	459812.4	3767891.0	319.0	3.49	9.30	3.25 YES
L0010751	0	0.24510E-06	459812.5	3767911.0	319.0	3.49	9.30	3.25 YES
L0010752	0	0.24510E-06	459812.7	3767931.0	319.2	3.49	9.30	3.25 YES
L0010753	0	0.24510E-06	459812.8	3767951.0	319.8	3.49	9.30	3.25 YES
L0010754	0	0.24510E-06	459813.0	3767971.0	320.0	3.49	9.30	3.25 YES
L0010755	0	0.24510E-06	459813.1	3767991.0	320.0	3.49	9.30	3.25 YES
L0010756	0	0.24510E-06	459813.2	3768011.0	320.0	3.49	9.30	3.25 YES
L0010757	0	0.24510E-06	459813.4	3768031.0	320.0	3.49	9.30	3.25 YES
L0010758	0	0.24510E-06	459813.5	3768051.0	320.1	3.49	9.30	3.25 YES
L0010759	0	0.24510E-06	459813.7	3768071.0	320.7	3.49	9.30	3.25 YES
L0010760	0	0.24510E-06	459813.8	3768091.0	320.9	3.49	9.30	3.25 YES
L0010761	0	0.24510E-06	459814.0	3768111.0	321.0	3.49	9.30	3.25 YES
L0010762	0	0.24510E-06	459814.1	3768131.0	321.0	3.49	9.30	3.25 YES
L0010763	0	0.24510E-06	459814.2	3768151.0	321.0	3.49	9.30	3.25 YES
L0010764	0	0.24510E-06	459814.4	3768171.0	321.0	3.49	9.30	3.25 YES

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 L0010765         0   0.24510E-06  459814.5 3768191.0   321.0     3.49     9.30
3.25     YES
 L0010766         0   0.24510E-06  459814.7 3768211.0   321.5     3.49     9.30
3.25     YES
 L0010767         0   0.24510E-06  459814.8 3768231.0   322.0     3.49     9.30
3.25     YES
 L0010768         0   0.24510E-06  459814.9 3768251.0   322.0     3.49     9.30
3.25     YES
 L0010769         0   0.24510E-06  459815.1 3768271.0   322.0     3.49     9.30
3.25     YES
 L0010770         0   0.24510E-06  459815.2 3768291.0   322.2     3.49     9.30
3.25     YES
 L0010771         0   0.24510E-06  459815.4 3768311.0   322.8     3.49     9.30
3.25     YES
 L0010772         0   0.24510E-06  459815.5 3768331.0   323.0     3.49     9.30
3.25     YES
 L0010773         0   0.24510E-06  459815.7 3768351.0   323.0     3.49     9.30
3.25     YES
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                                                      *** VOLUME SOURCE DATA ***

               NUMBER EMISSION RATE                    BASE    RELEASE    INIT.
INIT.   URBAN  EMISSION RATE
   SOURCE       PART.  (GRAMS/SEC)     X        Y      ELEV.   HEIGHT      SY
SZ     SOURCE  SCALAR VARY
     ID         CATS.               (METERS) (METERS) (METERS) (METERS) (METERS)
(METERS)             BY
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 L0010774         0   0.24510E-06  459815.8 3768371.0   323.0     3.49     9.30
3.25     YES
 L0010775         0   0.24510E-06  459815.9 3768391.0   323.0     3.49     9.30
3.25     YES
 L0010776         0   0.24510E-06  459816.1 3768411.0   323.2     3.49     9.30
3.25     YES
 L0010777         0   0.32020E-07  459812.3 3768432.8   323.9     3.49     4.00
3.25     YES
 L0010778         0   0.32020E-07  459820.9 3768432.8   323.9     3.49     4.00
3.25     YES
```

L0010779	0	0.32020E-07	459829.5	3768432.7	323.9	3.49	4.00	3.25 YES
L0010780	0	0.32020E-07	459838.1	3768432.7	323.9	3.49	4.00	3.25 YES
L0010781	0	0.32020E-07	459846.7	3768432.6	324.0	3.49	4.00	3.25 YES
L0010782	0	0.32020E-07	459855.3	3768432.6	324.0	3.49	4.00	3.25 YES
L0010783	0	0.32020E-07	459863.9	3768432.6	324.0	3.49	4.00	3.25 YES
L0010784	0	0.32020E-07	459872.5	3768432.5	324.0	3.49	4.00	3.25 YES
L0010785	0	0.32020E-07	459881.1	3768432.5	324.0	3.49	4.00	3.25 YES
L0010786	0	0.32020E-07	459889.6	3768432.4	324.0	3.49	4.00	3.25 YES
L0010787	0	0.32020E-07	459898.2	3768432.4	324.0	3.49	4.00	3.25 YES
L0010788	0	0.32020E-07	459906.8	3768432.3	324.0	3.49	4.00	3.25 YES
L0010789	0	0.32020E-07	459915.4	3768432.3	324.0	3.49	4.00	3.25 YES
L0010790	0	0.32020E-07	459924.0	3768432.3	324.0	3.49	4.00	3.25 YES
L0010791	0	0.32020E-07	459932.6	3768432.2	324.0	3.49	4.00	3.25 YES
L0010792	0	0.32020E-07	459941.2	3768432.2	324.0	3.49	4.00	3.25 YES
L0010793	0	0.32020E-07	459949.8	3768432.1	324.0	3.49	4.00	3.25 YES
L0010794	0	0.32020E-07	459958.4	3768432.1	324.0	3.49	4.00	3.25 YES
L0010795	0	0.32020E-07	459967.0	3768432.1	324.0	3.49	4.00	3.25 YES
L0010796	0	0.32020E-07	459975.5	3768432.0	324.0	3.49	4.00	3.25 YES
L0010797	0	0.32020E-07	459984.1	3768432.0	324.0	3.49	4.00	3.25 YES
L0010798	0	0.32020E-07	459992.7	3768431.9	324.0	3.49	4.00	3.25 YES
L0010799	0	0.32020E-07	460001.3	3768431.9	324.0	3.49	4.00	3.25 YES
L0010800	0	0.32020E-07	460009.9	3768431.8	324.0	3.49	4.00	3.25 YES
L0010801	0	0.32020E-07	460018.5	3768431.8	324.0	3.49	4.00	3.25 YES
L0010802	0	0.32020E-07	460027.1	3768431.8	324.0	3.49	4.00	3.25 YES

```
 L0010803         0   0.32020E-07  460035.7 3768431.7   324.0     3.49     4.00
3.25     YES
 L0010804         0   0.32020E-07  460044.3 3768431.7   324.0     3.49     4.00
3.25     YES
 L0010805         0   0.32020E-07  460052.9 3768431.6   324.0     3.49     4.00
3.25     YES
 L0010806         0   0.32020E-07  460061.4 3768431.6   324.0     3.49     4.00
3.25     YES
 L0010807         0   0.32020E-07  460070.0 3768431.6   324.0     3.49     4.00
3.25     YES
 L0010808         0   0.32020E-07  460078.6 3768431.5   324.0     3.49     4.00
3.25     YES
 L0010809         0   0.32020E-07  460087.2 3768431.5   324.0     3.49     4.00
3.25     YES
 L0010810         0   0.32020E-07  460095.8 3768431.4   324.0     3.49     4.00
3.25     YES
 L0010811         0   0.32020E-07  460104.4 3768431.4   324.0     3.49     4.00
3.25     YES
 L0010812         0   0.32020E-07  460113.0 3768431.3   324.0     3.49     4.00
3.25     YES
 L0010813         0   0.32020E-07  460121.6 3768431.3   324.0     3.49     4.00
3.25     YES
 *** AERMOD - VERSION  18081 ***   *** C:\LAKES\AERMOD VIEW\12979 HRA\12979
HRA.ISC                          ***        10/07/19
 *** AERMET - VERSION  16216 ***   ***
                         ***       12:30:42

                                   PAGE  21
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*


                                                    *** VOLUME SOURCE DATA ***

               NUMBER EMISSION RATE                    BASE    RELEASE    INIT.
INIT.   URBAN  EMISSION RATE
   SOURCE       PART.  (GRAMS/SEC)     X        Y      ELEV.   HEIGHT      SY
SZ     SOURCE  SCALAR VARY
     ID         CATS.               (METERS) (METERS) (METERS) (METERS) (METERS)
(METERS)             BY
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
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 L0010814         0   0.32020E-07  460130.2 3768431.3   323.9     3.49     4.00
3.25     YES
 L0010815         0   0.32020E-07  460138.8 3768431.2   323.9     3.49     4.00
3.25     YES
 L0010816         0   0.32020E-07  460147.3 3768431.2   323.8     3.49     4.00
3.25     YES
```

L0010817	0	0.32020E-07	460155.9	3768431.1	323.8	3.49	4.00	3.25 YES
L0010818	0	0.32020E-07	460164.5	3768431.1	323.8	3.49	4.00	3.25 YES
L0010819	0	0.32020E-07	460173.1	3768431.1	323.8	3.49	4.00	3.25 YES
L0010820	0	0.32020E-07	460181.7	3768431.0	323.8	3.49	4.00	3.25 YES
L0010821	0	0.32020E-07	460190.3	3768431.0	323.8	3.49	4.00	3.25 YES
L0010822	0	0.32020E-07	460198.9	3768430.9	323.8	3.49	4.00	3.25 YES
L0010823	0	0.32020E-07	460207.5	3768430.9	323.8	3.49	4.00	3.25 YES
L0010824	0	0.32020E-07	460216.1	3768430.9	323.8	3.49	4.00	3.25 YES
L0010825	0	0.32020E-07	460224.7	3768430.8	323.8	3.49	4.00	3.25 YES
L0010826	0	0.32020E-07	460233.2	3768430.8	323.8	3.49	4.00	3.25 YES
L0010827	0	0.32020E-07	460241.8	3768430.7	323.8	3.49	4.00	3.25 YES
L0010828	0	0.32020E-07	460250.4	3768430.7	323.8	3.49	4.00	3.25 YES
L0010829	0	0.32020E-07	460259.0	3768430.6	323.8	3.49	4.00	3.25 YES
L0010830	0	0.32020E-07	460267.6	3768430.6	323.8	3.49	4.00	3.25 YES
L0010831	0	0.32020E-07	460276.2	3768430.6	323.9	3.49	4.00	3.25 YES
L0010832	0	0.32020E-07	460284.8	3768430.5	323.9	3.49	4.00	3.25 YES
L0010833	0	0.32020E-07	460293.4	3768430.5	324.0	3.49	4.00	3.25 YES
L0010834	0	0.32020E-07	460302.0	3768430.4	324.0	3.49	4.00	3.25 YES
L0010835	0	0.32020E-07	460310.5	3768430.4	324.0	3.49	4.00	3.25 YES
L0010836	0	0.32020E-07	460319.1	3768430.4	324.0	3.49	4.00	3.25 YES
L0010837	0	0.32020E-07	460327.7	3768430.3	324.0	3.49	4.00	3.25 YES
L0010838	0	0.32020E-07	460336.3	3768430.3	324.0	3.49	4.00	3.25 YES
L0010839	0	0.32020E-07	460344.9	3768430.2	324.0	3.49	4.00	3.25 YES
L0010840	0	0.32020E-07	460353.5	3768430.2	324.0	3.49	4.00	3.25 YES

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 L0010841         0   0.32020E-07  460362.1 3768430.1   324.0     3.49     4.00
3.25     YES
 L0010842         0   0.32020E-07  460370.7 3768430.1   324.0     3.49     4.00
3.25     YES
 L0010843         0   0.32020E-07  460379.3 3768430.1   324.0     3.49     4.00
3.25     YES
 L0010844         0   0.32020E-07  460387.9 3768430.0   324.0     3.49     4.00
3.25     YES
 L0010845         0   0.32020E-07  460396.4 3768430.0   324.0     3.49     4.00
3.25     YES
 L0010846         0   0.32020E-07  460405.0 3768429.9   324.0     3.49     4.00
3.25     YES
 L0010847         0   0.32020E-07  460413.6 3768429.9   324.0     3.49     4.00
3.25     YES
 L0010848         0   0.32020E-07  460422.2 3768429.9   324.0     3.49     4.00
3.25     YES
 L0010849         0   0.32020E-07  460430.8 3768429.8   324.0     3.49     4.00
3.25     YES
 L0010850         0   0.32020E-07  460439.4 3768429.8   324.0     3.49     4.00
3.25     YES
 L0010851         0   0.32020E-07  460448.0 3768429.7   324.0     3.49     4.00
3.25     YES
 L0010852         0   0.32020E-07  460456.6 3768429.7   324.0     3.49     4.00
3.25     YES
 L0010853         0   0.32020E-07  460465.2 3768429.6   324.0     3.49     4.00
3.25     YES
```



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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*


                                                    *** VOLUME SOURCE DATA ***

               NUMBER EMISSION RATE                    BASE    RELEASE    INIT.
INIT.   URBAN  EMISSION RATE
   SOURCE       PART.  (GRAMS/SEC)     X        Y      ELEV.   HEIGHT      SY
SZ     SOURCE  SCALAR VARY
     ID         CATS.               (METERS) (METERS) (METERS) (METERS) (METERS)
(METERS)             BY
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - -

 L0010854         0   0.32020E-07  460473.8 3768429.6   324.0     3.49     4.00
3.25     YES
```

L0010855	0	0.32020E-07	460482.3	3768429.6	324.0	3.49	4.00	3.25 YES
L0010856	0	0.32020E-07	460490.9	3768429.5	324.0	3.49	4.00	3.25 YES
L0010857	0	0.32020E-07	460499.5	3768429.5	324.0	3.49	4.00	3.25 YES
L0010858	0	0.32020E-07	460508.1	3768429.4	324.0	3.49	4.00	3.25 YES
L0010859	0	0.32020E-07	460516.7	3768429.4	324.0	3.49	4.00	3.25 YES
L0010860	0	0.32020E-07	460525.3	3768429.4	324.0	3.49	4.00	3.25 YES
L0010861	0	0.32020E-07	460533.9	3768429.3	324.0	3.49	4.00	3.25 YES
L0010862	0	0.32020E-07	460542.5	3768429.3	324.0	3.49	4.00	3.25 YES
L0010863	0	0.32020E-07	460551.1	3768429.2	324.0	3.49	4.00	3.25 YES
L0010864	0	0.32020E-07	460559.7	3768429.2	324.0	3.49	4.00	3.25 YES
L0010865	0	0.32020E-07	460568.2	3768429.1	324.0	3.49	4.00	3.25 YES
L0010866	0	0.32020E-07	460576.8	3768429.1	324.0	3.49	4.00	3.25 YES
L0010867	0	0.32020E-07	460585.4	3768429.1	324.0	3.49	4.00	3.25 YES
L0010868	0	0.32020E-07	460594.0	3768429.0	324.0	3.49	4.00	3.25 YES
L0010869	0	0.32020E-07	460602.6	3768429.0	324.0	3.49	4.00	3.25 YES
L0010870	0	0.32020E-07	460611.2	3768428.9	324.0	3.49	4.00	3.25 YES
L0010871	0	0.32020E-07	460619.8	3768428.9	324.0	3.49	4.00	3.25 YES
L0010872	0	0.32020E-07	460628.4	3768428.9	324.0	3.49	4.00	3.25 YES
L0010873	0	0.32020E-07	460637.0	3768428.8	324.0	3.49	4.00	3.25 YES
L0010874	0	0.32020E-07	460645.6	3768428.8	324.0	3.49	4.00	3.25 YES
L0010875	0	0.32020E-07	460654.1	3768428.7	324.0	3.49	4.00	3.25 YES
L0010876	0	0.32020E-07	460662.7	3768428.7	324.0	3.49	4.00	3.25 YES
L0010877	0	0.32020E-07	460671.3	3768428.7	324.0	3.49	4.00	3.25 YES
L0010878	0	0.32020E-07	460679.9	3768428.6	324.0	3.49	4.00	3.25 YES

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 L0010879         0   0.32020E-07  460688.5 3768428.6   324.0     3.49     4.00
3.25     YES
 L0010880         0   0.32020E-07  460697.1 3768428.5   324.0     3.49     4.00
3.25     YES
 L0010881         0   0.32020E-07  460705.7 3768428.5   324.0     3.49     4.00
3.25     YES
 L0010882         0   0.32020E-07  460714.3 3768428.4   324.0     3.49     4.00
3.25     YES
 L0010883         0   0.32020E-07  460722.9 3768428.4   324.0     3.49     4.00
3.25     YES
 L0010884         0   0.32020E-07  460731.5 3768428.4   324.0     3.49     4.00
3.25     YES
 L0010885         0   0.32020E-07  460740.0 3768428.3   324.0     3.49     4.00
3.25     YES
 L0010886         0   0.32020E-07  460748.6 3768428.3   324.0     3.49     4.00
3.25     YES
 L0010887         0   0.32020E-07  460757.2 3768428.2   324.0     3.49     4.00
3.25     YES
 L0010888         0   0.32020E-07  460765.8 3768428.2   324.0     3.49     4.00
3.25     YES
 L0010889         0   0.32020E-07  460774.4 3768428.2   324.0     3.49     4.00
3.25     YES
 L0010890         0   0.32020E-07  460783.0 3768428.1   324.0     3.49     4.00
3.25     YES
 L0010891         0   0.32020E-07  460791.6 3768428.1   324.0     3.49     4.00
3.25     YES
 L0010892         0   0.32020E-07  460800.2 3768428.0   324.0     3.49     4.00
3.25     YES
 L0010893         0   0.32020E-07  460808.8 3768428.0   324.0     3.49     4.00
3.25     YES
 *** AERMOD - VERSION  18081 ***   *** C:\LAKES\AERMOD VIEW\12979 HRA\12979
HRA.ISC                          ***        10/07/19
 *** AERMET - VERSION  16216 ***   ***
                       ***        12:30:42

                                  PAGE  23
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*


                                                      *** VOLUME SOURCE DATA ***

              NUMBER EMISSION RATE                    BASE    RELEASE    INIT.
INIT.   URBAN  EMISSION RATE
   SOURCE       PART.  (GRAMS/SEC)     X        Y      ELEV.   HEIGHT      SY
SZ     SOURCE  SCALAR VARY
     ID         CATS.               (METERS) (METERS) (METERS) (METERS) (METERS)
(METERS)             BY
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
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L0010894	0	0.32020E-07	460817.4	3768427.9	324.0	3.49	4.00	3.25 YES
L0010895	0	0.32020E-07	460825.9	3768427.9	324.0	3.49	4.00	3.25 YES
L0010896	0	0.32020E-07	460834.5	3768427.9	324.0	3.49	4.00	3.25 YES
L0010897	0	0.32020E-07	460843.1	3768427.8	324.0	3.49	4.00	3.25 YES
L0010898	0	0.32020E-07	460851.7	3768427.8	324.0	3.49	4.00	3.25 YES
L0010899	0	0.32020E-07	460860.3	3768427.7	324.0	3.49	4.00	3.25 YES
L0010900	0	0.32020E-07	460868.9	3768427.7	324.0	3.49	4.00	3.25 YES
L0010901	0	0.32020E-07	460877.5	3768427.7	324.0	3.49	4.00	3.25 YES
L0010902	0	0.32020E-07	460886.1	3768427.6	324.0	3.49	4.00	3.25 YES
L0010903	0	0.32020E-07	460894.7	3768427.6	324.0	3.49	4.00	3.25 YES
L0010904	0	0.32020E-07	460903.3	3768427.5	324.0	3.49	4.00	3.25 YES
L0010905	0	0.32020E-07	460911.8	3768427.5	324.0	3.49	4.00	3.25 YES
L0010906	0	0.32020E-07	460920.4	3768427.4	324.0	3.49	4.00	3.25 YES
L0010907	0	0.32020E-07	460929.0	3768427.4	324.0	3.49	4.00	3.25 YES
L0010908	0	0.32020E-07	460937.6	3768427.4	324.0	3.49	4.00	3.25 YES
L0010909	0	0.32020E-07	460946.2	3768427.3	324.0	3.49	4.00	3.25 YES
L0010910	0	0.32020E-07	460954.8	3768427.3	324.0	3.49	4.00	3.25 YES
L0010911	0	0.32020E-07	460963.4	3768427.2	324.0	3.49	4.00	3.25 YES
L0010912	0	0.32020E-07	460972.0	3768427.2	323.9	3.49	4.00	3.25 YES
L0010913	0	0.32020E-07	460980.6	3768427.2	323.8	3.49	4.00	3.25 YES
L0010914	0	0.32020E-07	460989.2	3768427.1	323.7	3.49	4.00	3.25 YES
L0010915	0	0.32020E-07	460997.7	3768427.1	323.5	3.49	4.00	3.25 YES
L0010916	0	0.20010E-07	456920.2	3768433.8	307.9	3.49	4.00	3.25 YES

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 L0010917         0   0.20010E-07  456928.8 3768433.8   308.0     3.49     4.00
3.25     YES
 L0010918         0   0.20010E-07  456937.4 3768433.7   308.0     3.49     4.00
3.25     YES
 L0010919         0   0.20010E-07  456945.9 3768433.7   308.2     3.49     4.00
3.25     YES
 L0010920         0   0.20010E-07  456954.5 3768433.6   308.4     3.49     4.00
3.25     YES
 L0010921         0   0.20010E-07  456963.1 3768433.6   308.7     3.49     4.00
3.25     YES
 L0010922         0   0.20010E-07  456971.7 3768433.5   308.9     3.49     4.00
3.25     YES
 L0010923         0   0.20010E-07  456980.3 3768433.5   308.9     3.49     4.00
3.25     YES
 L0010924         0   0.20010E-07  456988.9 3768433.5   309.0     3.49     4.00
3.25     YES
 L0010925         0   0.20010E-07  456997.5 3768433.4   309.0     3.49     4.00
3.25     YES
 L0010926         0   0.20010E-07  457006.1 3768433.4   309.0     3.49     4.00
3.25     YES
 L0010927         0   0.20010E-07  457014.7 3768433.3   309.0     3.49     4.00
3.25     YES
 L0010928         0   0.20010E-07  457023.3 3768433.3   309.0     3.49     4.00
3.25     YES
 L0010929         0   0.20010E-07  457031.8 3768433.3   309.1     3.49     4.00
3.25     YES
 L0010930         0   0.20010E-07  457040.4 3768433.2   309.3     3.49     4.00
3.25     YES
 L0010931         0   0.20010E-07  457049.0 3768433.2   309.6     3.49     4.00
3.25     YES
 L0010932         0   0.20010E-07  457057.6 3768433.1   309.8     3.49     4.00
3.25     YES
 L0010933         0   0.20010E-07  457066.2 3768433.1   309.9     3.49     4.00
3.25     YES
 *** AERMOD - VERSION  18081 ***   *** C:\LAKES\AERMOD VIEW\12979 HRA\12979
HRA.ISC                         ***        10/07/19
 *** AERMET - VERSION  16216 ***   ***
                          ***        12:30:42

                                   PAGE  24
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*


                                                    *** VOLUME SOURCE DATA ***

               NUMBER EMISSION RATE                    BASE    RELEASE    INIT.
INIT.   URBAN  EMISSION RATE
   SOURCE       PART.  (GRAMS/SEC)     X         Y      ELEV.   HEIGHT      SY
```

SZ ID	SOURCE CATS.	SCALAR VARY BY	(METERS)	(METERS)	(METERS)	(METERS)	(METERS)	(METERS)	
L0010934	0	0.20010E-07	457074.8	3768433.0	309.9	3.49	4.00	3.25	YES
L0010935	0	0.20010E-07	457083.4	3768433.0	309.9	3.49	4.00	3.25	YES
L0010936	0	0.20010E-07	457092.0	3768433.0	309.9	3.49	4.00	3.25	YES
L0010937	0	0.20010E-07	457100.6	3768432.9	309.9	3.49	4.00	3.25	YES
L0010938	0	0.20010E-07	457109.2	3768432.9	309.9	3.49	4.00	3.25	YES
L0010939	0	0.20010E-07	457117.7	3768432.8	309.9	3.49	4.00	3.25	YES
L0010940	0	0.20010E-07	457126.3	3768432.8	309.9	3.49	4.00	3.25	YES
L0010941	0	0.20010E-07	457134.9	3768432.8	309.9	3.49	4.00	3.25	YES
L0010942	0	0.20010E-07	457143.5	3768432.7	309.9	3.49	4.00	3.25	YES
L0010943	0	0.20010E-07	457152.1	3768432.7	309.9	3.49	4.00	3.25	YES
L0010944	0	0.20010E-07	457160.7	3768432.6	309.9	3.49	4.00	3.25	YES
L0010945	0	0.20010E-07	457169.3	3768432.6	309.9	3.49	4.00	3.25	YES
L0010946	0	0.20010E-07	457177.9	3768432.6	309.9	3.49	4.00	3.25	YES
L0010947	0	0.20010E-07	457186.5	3768432.5	309.9	3.49	4.00	3.25	YES
L0010948	0	0.20010E-07	457195.1	3768432.5	309.9	3.49	4.00	3.25	YES
L0010949	0	0.20010E-07	457203.6	3768432.4	309.9	3.49	4.00	3.25	YES
L0010950	0	0.20010E-07	457212.2	3768432.4	309.9	3.49	4.00	3.25	YES
L0010951	0	0.20010E-07	457220.8	3768432.3	309.9	3.49	4.00	3.25	YES
L0010952	0	0.20010E-07	457229.4	3768432.3	309.9	3.49	4.00	3.25	YES
L0010953	0	0.20010E-07	457238.0	3768432.3	309.9	3.49	4.00	3.25	YES
L0010954	0	0.20010E-07	457246.6	3768432.2	309.9	3.49	4.00	3.25	YES

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 L0010955         0   0.20010E-07  457255.2 3768432.2   309.9     3.49     4.00
3.25     YES
 L0010956         0   0.20010E-07  457263.8 3768432.1   310.0     3.49     4.00
3.25     YES
 L0010957         0   0.20010E-07  457272.4 3768432.1   310.0     3.49     4.00
3.25     YES
 L0010958         0   0.20010E-07  457281.0 3768432.1   310.0     3.49     4.00
3.25     YES
 L0010959         0   0.20010E-07  457289.5 3768432.0   310.0     3.49     4.00
3.25     YES
 L0010960         0   0.20010E-07  457298.1 3768432.0   310.0     3.49     4.00
3.25     YES
 L0010961         0   0.20010E-07  457306.7 3768431.9   310.0     3.49     4.00
3.25     YES
 L0010962         0   0.20010E-07  457315.3 3768431.9   310.0     3.49     4.00
3.25     YES
 L0010963         0   0.20010E-07  457323.9 3768431.8   310.0     3.49     4.00
3.25     YES
 L0010964         0   0.20010E-07  457332.5 3768431.8   310.0     3.49     4.00
3.25     YES
 L0010965         0   0.20010E-07  457341.1 3768431.8   310.0     3.49     4.00
3.25     YES
 L0010966         0   0.20010E-07  457349.7 3768431.7   310.0     3.49     4.00
3.25     YES
 L0010967         0   0.20010E-07  457358.3 3768431.7   310.0     3.49     4.00
3.25     YES
 L0010968         0   0.20010E-07  457366.8 3768431.6   310.2     3.49     4.00
3.25     YES
 L0010969         0   0.20010E-07  457375.4 3768431.6   310.4     3.49     4.00
3.25     YES
 L0010970         0   0.20010E-07  457384.0 3768431.6   310.7     3.49     4.00
3.25     YES
 L0010971         0   0.20010E-07  457392.6 3768431.5   310.9     3.49     4.00
3.25     YES
 L0010972         0   0.20010E-07  457401.2 3768431.5   310.9     3.49     4.00
3.25     YES
 L0010973         0   0.20010E-07  457409.8 3768431.4   310.9     3.49     4.00
3.25     YES
 *** AERMOD - VERSION  18081 ***   *** C:\LAKES\AERMOD VIEW\12979 HRA\12979
HRA.ISC                         ***        10/07/19
 *** AERMET - VERSION  16216 ***   ***
                          ***        12:30:42

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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*


                                                  *** VOLUME SOURCE DATA ***
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SOURCE ID	NUMBER PART. SCALAR CATS.	EMISSION RATE (GRAMS/SEC) VARY BY	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE
L0010974	0	0.20010E-07	457418.4	3768431.4	311.0	3.49	4.00	3.25	YES
L0010975	0	0.20010E-07	457427.0	3768431.3	311.0	3.49	4.00	3.25	YES
L0010976	0	0.20010E-07	457435.6	3768431.3	311.0	3.49	4.00	3.25	YES
L0010977	0	0.20010E-07	457444.2	3768431.3	311.0	3.49	4.00	3.25	YES
L0010978	0	0.20010E-07	457452.7	3768431.2	311.0	3.49	4.00	3.25	YES
L0010979	0	0.20010E-07	457461.3	3768431.2	311.0	3.49	4.00	3.25	YES
L0010980	0	0.20010E-07	457469.9	3768431.1	311.0	3.49	4.00	3.25	YES
L0010981	0	0.20010E-07	457478.5	3768431.1	311.0	3.49	4.00	3.25	YES
L0010982	0	0.20010E-07	457487.1	3768431.1	311.2	3.49	4.00	3.25	YES
L0010983	0	0.20010E-07	457495.7	3768431.0	311.4	3.49	4.00	3.25	YES
L0010984	0	0.20010E-07	457504.3	3768431.0	311.7	3.49	4.00	3.25	YES
L0010985	0	0.20010E-07	457512.9	3768430.9	311.8	3.49	4.00	3.25	YES
L0010986	0	0.20010E-07	457521.5	3768430.9	311.9	3.49	4.00	3.25	YES
L0010987	0	0.20010E-07	457530.1	3768430.8	311.9	3.49	4.00	3.25	YES
L0010988	0	0.20010E-07	457538.6	3768430.8	312.0	3.49	4.00	3.25	YES
L0010989	0	0.20010E-07	457547.2	3768430.8	312.0	3.49	4.00	3.25	YES
L0010990	0	0.20010E-07	457555.8	3768430.7	312.0	3.49	4.00	3.25	YES
L0010991	0	0.20010E-07	457564.4	3768430.7	312.0	3.49	4.00	3.25	YES
L0010992	0	0.20010E-07	457573.0	3768430.6	312.1	3.49	4.00	3.25	YES

L0010993	0	0.20010E-07	457581.6	3768430.6	312.3	3.49	4.00	3.25 YES
L0010994	0	0.20010E-07	457590.2	3768430.6	312.6	3.49	4.00	3.25 YES
L0010995	0	0.20010E-07	457598.8	3768430.5	312.8	3.49	4.00	3.25 YES
L0010996	0	0.20010E-07	457607.4	3768430.5	312.8	3.49	4.00	3.25 YES
L0010997	0	0.20010E-07	457616.0	3768430.4	312.8	3.49	4.00	3.25 YES
L0010998	0	0.20010E-07	457624.5	3768430.4	312.8	3.49	4.00	3.25 YES
L0010999	0	0.20010E-07	457633.1	3768430.4	312.8	3.49	4.00	3.25 YES
L0011000	0	0.20010E-07	457641.7	3768430.3	312.9	3.49	4.00	3.25 YES
L0011001	0	0.20010E-07	457650.3	3768430.3	312.9	3.49	4.00	3.25 YES
L0011002	0	0.20010E-07	457658.9	3768430.2	313.0	3.49	4.00	3.25 YES
L0011003	0	0.20010E-07	457667.5	3768430.2	313.0	3.49	4.00	3.25 YES
L0011004	0	0.20010E-07	457676.1	3768430.1	313.0	3.49	4.00	3.25 YES
L0011005	0	0.20010E-07	457684.7	3768430.1	313.0	3.49	4.00	3.25 YES
L0011006	0	0.20010E-07	457693.3	3768430.1	313.1	3.49	4.00	3.25 YES
L0011007	0	0.20010E-07	457701.9	3768430.0	313.3	3.49	4.00	3.25 YES
L0011008	0	0.20010E-07	457710.4	3768430.0	313.6	3.49	4.00	3.25 YES
L0011009	0	0.20010E-07	457719.0	3768429.9	313.8	3.49	4.00	3.25 YES
L0011010	0	0.20010E-07	457727.6	3768429.9	313.8	3.49	4.00	3.25 YES
L0011011	0	0.20010E-07	457736.2	3768429.9	313.9	3.49	4.00	3.25 YES
L0011012	0	0.20010E-07	457744.8	3768429.8	314.0	3.49	4.00	3.25 YES
L0011013	0	0.20010E-07	457753.4	3768429.8	314.0	3.49	4.00	3.25 YES

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER EMISSION RATE PART. SCALAR CATS.	EMISSION RATE (GRAMS/SEC) VARY BY	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE
L0011014	0	0.20010E-07	457762.0	3768429.7	314.0	3.49	4.00	3.25	YES
L0011015	0	0.20010E-07	457770.6	3768429.7	314.0	3.49	4.00	3.25	YES
L0011016	0	0.20010E-07	457779.2	3768429.6	314.0	3.49	4.00	3.25	YES
L0011017	0	0.20010E-07	457787.8	3768429.6	314.2	3.49	4.00	3.25	YES
L0011018	0	0.20010E-07	457796.3	3768429.6	314.4	3.49	4.00	3.25	YES
L0011019	0	0.20010E-07	457804.9	3768429.5	314.7	3.49	4.00	3.25	YES
L0011020	0	0.20010E-07	457813.5	3768429.5	314.8	3.49	4.00	3.25	YES
L0011021	0	0.20010E-07	457822.1	3768429.4	314.8	3.49	4.00	3.25	YES
L0011022	0	0.20010E-07	457830.7	3768429.4	314.8	3.49	4.00	3.25	YES
L0011023	0	0.20010E-07	457839.3	3768429.4	314.8	3.49	4.00	3.25	YES
L0011024	0	0.20010E-07	457847.9	3768429.3	314.8	3.49	4.00	3.25	YES
L0011025	0	0.20010E-07	457856.5	3768429.3	314.9	3.49	4.00	3.25	YES
L0011026	0	0.20010E-07	457865.1	3768429.2	315.0	3.49	4.00	3.25	YES
L0011027	0	0.20010E-07	457873.7	3768429.2	315.0	3.49	4.00	3.25	YES
L0011028	0	0.20010E-07	457882.2	3768429.1	315.0	3.49	4.00	3.25	YES
L0011029	0	0.20010E-07	457890.8	3768429.1	315.0	3.49	4.00	3.25	YES
L0011030	0	0.20010E-07	457899.4	3768429.1	315.0	3.49	4.00	3.25	YES

L0011031	0	0.20010E-07	457908.0	3768429.0	315.0	3.49	4.00	3.25 YES
L0011032	0	0.20010E-07	457916.6	3768429.0	315.0	3.49	4.00	3.25 YES
L0011033	0	0.20010E-07	457925.2	3768428.9	315.0	3.49	4.00	3.25 YES
L0011034	0	0.20010E-07	457933.8	3768428.9	315.1	3.49	4.00	3.25 YES
L0011035	0	0.20010E-07	457942.4	3768428.9	315.3	3.49	4.00	3.25 YES
L0011036	0	0.20010E-07	457951.0	3768428.8	315.5	3.49	4.00	3.25 YES
L0011037	0	0.20010E-07	457959.6	3768428.8	315.8	3.49	4.00	3.25 YES
L0011038	0	0.20010E-07	457968.1	3768428.7	315.8	3.49	4.00	3.25 YES
L0011039	0	0.20010E-07	457976.7	3768428.7	315.9	3.49	4.00	3.25 YES
L0011040	0	0.20010E-07	457985.3	3768428.6	316.0	3.49	4.00	3.25 YES
L0011041	0	0.20010E-07	457993.9	3768428.6	316.0	3.49	4.00	3.25 YES
L0011042	0	0.20010E-07	458002.5	3768428.6	316.0	3.49	4.00	3.25 YES
L0011043	0	0.20010E-07	458011.1	3768428.5	316.0	3.49	4.00	3.25 YES
L0011044	0	0.20010E-07	458019.7	3768428.5	316.0	3.49	4.00	3.25 YES
L0011045	0	0.20010E-07	458028.3	3768428.4	316.0	3.49	4.00	3.25 YES
L0011046	0	0.20010E-07	458036.9	3768428.4	316.0	3.49	4.00	3.25 YES
L0011047	0	0.20010E-07	458045.5	3768428.4	316.0	3.49	4.00	3.25 YES
L0011048	0	0.20010E-07	458054.0	3768428.3	316.0	3.49	4.00	3.25 YES
L0011049	0	0.20010E-07	458062.6	3768428.3	316.0	3.49	4.00	3.25 YES
L0011050	0	0.20010E-07	458071.2	3768428.2	316.0	3.49	4.00	3.25 YES
L0011051	0	0.20010E-07	458079.8	3768428.2	316.0	3.49	4.00	3.25 YES
L0011052	0	0.20010E-07	458088.4	3768428.2	316.2	3.49	4.00	3.25 YES
L0011053	0	0.20010E-07	458097.0	3768428.1	316.4	3.49	4.00	3.25 YES

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER EMISSION RATE PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE VARY BY
L0011054	0	0.20010E-07	458105.6	3768428.1	316.6	3.49	4.00	3.25	YES	
L0011055	0	0.24020E-07	456933.1	3769242.8	318.7	3.49	4.00	3.25	YES	
L0011056	0	0.24020E-07	456941.6	3769242.8	318.9	3.49	4.00	3.25	YES	
L0011057	0	0.24020E-07	456950.2	3769242.7	318.9	3.49	4.00	3.25	YES	
L0011058	0	0.24020E-07	456958.8	3769242.7	318.9	3.49	4.00	3.25	YES	
L0011059	0	0.24020E-07	456967.4	3769242.6	318.9	3.49	4.00	3.25	YES	
L0011060	0	0.24020E-07	456976.0	3769242.6	318.9	3.49	4.00	3.25	YES	
L0011061	0	0.24020E-07	456984.6	3769242.6	318.9	3.49	4.00	3.25	YES	
L0011062	0	0.24020E-07	456993.2	3769242.5	318.9	3.49	4.00	3.25	YES	
L0011063	0	0.24020E-07	457001.8	3769242.5	318.9	3.49	4.00	3.25	YES	
L0011064	0	0.24020E-07	457010.4	3769242.4	318.9	3.49	4.00	3.25	YES	
L0011065	0	0.24020E-07	457019.0	3769242.4	318.9	3.49	4.00	3.25	YES	
L0011066	0	0.24020E-07	457027.5	3769242.4	318.9	3.49	4.00	3.25	YES	
L0011067	0	0.24020E-07	457036.1	3769242.3	318.9	3.49	4.00	3.25	YES	
L0011068	0	0.24020E-07	457044.7	3769242.3	318.9	3.49	4.00	3.25	YES	

L0011069	0	0.24020E-07	457053.3	3769242.2	319.0	3.49	4.00	3.25 YES
L0011070	0	0.24020E-07	457061.9	3769242.2	319.0	3.49	4.00	3.25 YES
L0011071	0	0.24020E-07	457070.5	3769242.2	319.0	3.49	4.00	3.25 YES
L0011072	0	0.24020E-07	457079.1	3769242.1	319.0	3.49	4.00	3.25 YES
L0011073	0	0.24020E-07	457087.7	3769242.1	319.0	3.49	4.00	3.25 YES
L0011074	0	0.24020E-07	457096.3	3769242.0	319.0	3.49	4.00	3.25 YES
L0011075	0	0.24020E-07	457104.9	3769242.0	319.0	3.49	4.00	3.25 YES
L0011076	0	0.24020E-07	457113.4	3769241.9	319.0	3.49	4.00	3.25 YES
L0011077	0	0.24020E-07	457122.0	3769241.9	319.0	3.49	4.00	3.25 YES
L0011078	0	0.24020E-07	457130.6	3769241.9	319.0	3.49	4.00	3.25 YES
L0011079	0	0.24020E-07	457139.2	3769241.8	319.0	3.49	4.00	3.25 YES
L0011080	0	0.24020E-07	457147.8	3769241.8	319.0	3.49	4.00	3.25 YES
L0011081	0	0.24020E-07	457156.4	3769241.7	319.2	3.49	4.00	3.25 YES
L0011082	0	0.24020E-07	457165.0	3769241.7	319.4	3.49	4.00	3.25 YES
L0011083	0	0.24020E-07	457173.6	3769241.7	319.7	3.49	4.00	3.25 YES
L0011084	0	0.24020E-07	457182.2	3769241.6	319.8	3.49	4.00	3.25 YES
L0011085	0	0.24020E-07	457190.8	3769241.6	319.8	3.49	4.00	3.25 YES
L0011086	0	0.24020E-07	457199.3	3769241.5	319.8	3.49	4.00	3.25 YES
L0011087	0	0.24020E-07	457207.9	3769241.5	319.8	3.49	4.00	3.25 YES
L0011088	0	0.24020E-07	457216.5	3769241.4	319.8	3.49	4.00	3.25 YES
L0011089	0	0.24020E-07	457225.1	3769241.4	319.8	3.49	4.00	3.25 YES
L0011090	0	0.24020E-07	457233.7	3769241.4	319.8	3.49	4.00	3.25 YES
L0011091	0	0.24020E-07	457242.3	3769241.3	319.9	3.49	4.00	3.25 YES
L0011092	0	0.24020E-07	457250.9	3769241.3	319.9	3.49	4.00	3.25 YES

 L0011093   0   0.24020E-07 457259.5 3769241.2   319.9   3.49   4.00
3.25   YES

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE BY	EMISSION RATE SCALAR VARY
L0011094	0	0.24020E-07	457268.1	3769241.2	320.0	3.49	4.00	3.25	YES	
L0011095	0	0.24020E-07	457276.6	3769241.2	320.0	3.49	4.00	3.25	YES	
L0011096	0	0.24020E-07	457285.2	3769241.1	320.0	3.49	4.00	3.25	YES	
L0011097	0	0.24020E-07	457293.8	3769241.1	320.0	3.49	4.00	3.25	YES	
L0011098	0	0.24020E-07	457302.4	3769241.0	320.0	3.49	4.00	3.25	YES	
L0011099	0	0.24020E-07	457311.0	3769241.0	320.0	3.49	4.00	3.25	YES	
L0011100	0	0.24020E-07	457319.6	3769240.9	320.0	3.49	4.00	3.25	YES	
L0011101	0	0.24020E-07	457328.2	3769240.9	320.0	3.49	4.00	3.25	YES	
L0011102	0	0.24020E-07	457336.8	3769240.9	320.2	3.49	4.00	3.25	YES	
L0011103	0	0.24020E-07	457345.4	3769240.8	320.4	3.49	4.00	3.25	YES	
L0011104	0	0.24020E-07	457354.0	3769240.8	320.7	3.49	4.00	3.25	YES	
L0011105	0	0.24020E-07	457362.5	3769240.7	320.8	3.49	4.00	3.25	YES	
L0011106	0	0.24020E-07	457371.1	3769240.7	320.8	3.49	4.00	3.25	YES	

L0011107	0	0.24020E-07	457379.7	3769240.7	320.8	3.49	4.00	3.25 YES
L0011108	0	0.24020E-07	457388.3	3769240.6	320.8	3.49	4.00	3.25 YES
L0011109	0	0.24020E-07	457396.9	3769240.6	320.9	3.49	4.00	3.25 YES
L0011110	0	0.24020E-07	457405.5	3769240.5	320.9	3.49	4.00	3.25 YES
L0011111	0	0.24020E-07	457414.1	3769240.5	321.0	3.49	4.00	3.25 YES
L0011112	0	0.24020E-07	457422.7	3769240.4	321.0	3.49	4.00	3.25 YES
L0011113	0	0.24020E-07	457431.3	3769240.4	321.0	3.49	4.00	3.25 YES
L0011114	0	0.24020E-07	457439.9	3769240.4	321.0	3.49	4.00	3.25 YES
L0011115	0	0.24020E-07	457448.4	3769240.3	321.0	3.49	4.00	3.25 YES
L0011116	0	0.24020E-07	457457.0	3769240.3	321.0	3.49	4.00	3.25 YES
L0011117	0	0.24020E-07	457465.6	3769240.2	321.0	3.49	4.00	3.25 YES
L0011118	0	0.24020E-07	457474.2	3769240.2	321.0	3.49	4.00	3.25 YES
L0011119	0	0.24020E-07	457482.8	3769240.2	321.1	3.49	4.00	3.25 YES
L0011120	0	0.24020E-07	457491.4	3769240.1	321.3	3.49	4.00	3.25 YES
L0011121	0	0.24020E-07	457500.0	3769240.1	321.5	3.49	4.00	3.25 YES
L0011122	0	0.24020E-07	457508.6	3769240.0	321.8	3.49	4.00	3.25 YES
L0011123	0	0.24020E-07	457517.2	3769240.0	321.8	3.49	4.00	3.25 YES
L0011124	0	0.24020E-07	457525.8	3769240.0	321.8	3.49	4.00	3.25 YES
L0011125	0	0.24020E-07	457534.3	3769239.9	321.8	3.49	4.00	3.25 YES
L0011126	0	0.24020E-07	457542.9	3769239.9	321.8	3.49	4.00	3.25 YES
L0011127	0	0.24020E-07	457551.5	3769239.8	321.9	3.49	4.00	3.25 YES
L0011128	0	0.24020E-07	457560.1	3769239.8	321.9	3.49	4.00	3.25 YES
L0011129	0	0.24020E-07	457568.7	3769239.7	322.0	3.49	4.00	3.25 YES
L0011130	0	0.24020E-07	457577.3	3769239.7	322.0	3.49	4.00	3.25 YES

 L0011131   0   0.24020E-07 457585.9 3769239.7   322.0   3.49   4.00
3.25   YES
 L0011132   0   0.24020E-07 457594.5 3769239.6   322.0   3.49   4.00
3.25   YES
 L0011133   0   0.24020E-07 457603.1 3769239.6   322.1   3.49   4.00
3.25   YES

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                                                    *** VOLUME SOURCE DATA ***

               NUMBER EMISSION RATE   BASE   RELEASE   INIT.
INIT.   URBAN EMISSION RATE
   SOURCE   PART. (GRAMS/SEC)   X   Y   ELEV.   HEIGHT   SY
SZ   SOURCE SCALAR VARY
     ID   CATS.   (METERS) (METERS) (METERS) (METERS) (METERS)
(METERS)   BY
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 L0011134   0   0.24020E-07 457611.7 3769239.5   322.3   3.49   4.00
3.25   YES
 L0011135   0   0.24020E-07 457620.2 3769239.5   322.5   3.49   4.00
3.25   YES
 L0011136   0   0.24020E-07 457628.8 3769239.5   322.8   3.49   4.00
3.25   YES
 L0011137   0   0.24020E-07 457637.4 3769239.4   322.8   3.49   4.00
3.25   YES
 L0011138   0   0.24020E-07 457646.0 3769239.4   322.8   3.49   4.00
3.25   YES
 L0011139   0   0.24020E-07 457654.6 3769239.3   322.8   3.49   4.00
3.25   YES
 L0011140   0   0.24020E-07 457663.2 3769239.3   322.8   3.49   4.00
3.25   YES
 L0011141   0   0.24020E-07 457671.8 3769239.2   322.8   3.49   4.00
3.25   YES
 L0011142   0   0.24020E-07 457680.4 3769239.2   322.8   3.49   4.00
3.25   YES
 L0011143   0   0.24020E-07 457689.0 3769239.2   322.8   3.49   4.00
3.25   YES
 L0011144   0   0.24020E-07 457697.6 3769239.1   322.8   3.49   4.00
3.25   YES

L0011145	0	0.24020E-07	457706.1	3769239.1	322.9	3.49	4.00	3.25 YES
L0011146	0	0.24020E-07	457714.7	3769239.0	323.0	3.49	4.00	3.25 YES
L0011147	0	0.24020E-07	457723.3	3769239.0	323.0	3.49	4.00	3.25 YES
L0011148	0	0.24020E-07	457731.9	3769239.0	323.0	3.49	4.00	3.25 YES
L0011149	0	0.24020E-07	457740.5	3769238.9	323.0	3.49	4.00	3.25 YES
L0011150	0	0.24020E-07	457749.1	3769238.9	323.0	3.49	4.00	3.25 YES
L0011151	0	0.24020E-07	457757.7	3769238.8	323.0	3.49	4.00	3.25 YES
L0011152	0	0.24020E-07	457766.3	3769238.8	323.0	3.49	4.00	3.25 YES
L0011153	0	0.24020E-07	457774.9	3769238.7	323.0	3.49	4.00	3.25 YES
L0011154	0	0.24020E-07	457783.5	3769238.7	323.1	3.49	4.00	3.25 YES
L0011155	0	0.24020E-07	457792.0	3769238.7	323.3	3.49	4.00	3.25 YES
L0011156	0	0.24020E-07	457800.6	3769238.6	323.5	3.49	4.00	3.25 YES
L0011157	0	0.24020E-07	457809.2	3769238.6	323.7	3.49	4.00	3.25 YES
L0011158	0	0.24020E-07	457817.8	3769238.5	323.8	3.49	4.00	3.25 YES
L0011159	0	0.24020E-07	457826.4	3769238.5	323.9	3.49	4.00	3.25 YES
L0011160	0	0.24020E-07	457835.0	3769238.5	324.0	3.49	4.00	3.25 YES
L0011161	0	0.24020E-07	457843.6	3769238.4	324.0	3.49	4.00	3.25 YES
L0011162	0	0.24020E-07	457852.2	3769238.4	324.0	3.49	4.00	3.25 YES
L0011163	0	0.24020E-07	457860.8	3769238.3	324.0	3.49	4.00	3.25 YES
L0011164	0	0.24020E-07	457869.4	3769238.3	324.0	3.49	4.00	3.25 YES
L0011165	0	0.24020E-07	457877.9	3769238.3	324.0	3.49	4.00	3.25 YES
L0011166	0	0.24020E-07	457886.5	3769238.2	324.0	3.49	4.00	3.25 YES
L0011167	0	0.24020E-07	457895.1	3769238.2	324.0	3.49	4.00	3.25 YES
L0011168	0	0.24020E-07	457903.7	3769238.1	324.1	3.49	4.00	3.25 YES

 L0011169   0   0.24020E-07 457912.3 3769238.1   324.3   3.49   4.00
3.25   YES
 L0011170   0   0.24020E-07 457920.9 3769238.0   324.5   3.49   4.00
3.25   YES
 L0011171   0   0.24020E-07 457929.5 3769238.0   324.7   3.49   4.00
3.25   YES
 L0011172   0   0.24020E-07 457938.1 3769238.0   324.7   3.49   4.00
3.25   YES
 L0011173   0   0.24020E-07 457946.7 3769237.9   324.7   3.49   4.00
3.25   YES

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                                                    *** VOLUME SOURCE DATA ***

              NUMBER EMISSION RATE   BASE   RELEASE   INIT.
INIT.   URBAN EMISSION RATE
   SOURCE   PART. (GRAMS/SEC)   X   Y   ELEV.   HEIGHT   SY
SZ   SOURCE SCALAR VARY
     ID   CATS.   (METERS) (METERS) (METERS) (METERS) (METERS)
(METERS)   BY
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- - - - - - - - - - - - - - - - - - - -

 L0011174   0   0.24020E-07 457955.3 3769237.9   324.7   3.49   4.00
3.25   YES
 L0011175   0   0.24020E-07 457963.8 3769237.8   324.7   3.49   4.00
3.25   YES
 L0011176   0   0.24020E-07 457972.4 3769237.8   324.7   3.49   4.00
3.25   YES
 L0011177   0   0.24020E-07 457981.0 3769237.8   324.7   3.49   4.00
3.25   YES
 L0011178   0   0.24020E-07 457989.6 3769237.7   324.7   3.49   4.00
3.25   YES
 L0011179   0   0.24020E-07 457998.2 3769237.7   324.8   3.49   4.00
3.25   YES
 L0011180   0   0.24020E-07 458006.8 3769237.6   324.9   3.49   4.00
3.25   YES
 L0011181   0   0.24020E-07 458015.4 3769237.6   325.0   3.49   4.00
3.25   YES
 L0011182   0   0.24020E-07 458024.0 3769237.5   325.0   3.49   4.00
3.25   YES

L0011183	0	0.24020E-07	458032.6	3769237.5	325.0	3.49	4.00	3.25 YES
L0011184	0	0.24020E-07	458041.2	3769237.5	325.0	3.49	4.00	3.25 YES
L0011185	0	0.24020E-07	458049.7	3769237.4	325.0	3.49	4.00	3.25 YES
L0011186	0	0.24020E-07	458058.3	3769237.4	325.0	3.49	4.00	3.25 YES
L0011187	0	0.24020E-07	458066.9	3769237.3	325.0	3.49	4.00	3.25 YES
L0011188	0	0.24020E-07	458075.5	3769237.3	325.0	3.49	4.00	3.25 YES
L0011189	0	0.24020E-07	458084.1	3769237.3	325.1	3.49	4.00	3.25 YES
L0011190	0	0.24020E-07	458092.7	3769237.2	325.3	3.49	4.00	3.25 YES
L0011191	0	0.24020E-07	458101.3	3769237.2	325.5	3.49	4.00	3.25 YES
L0011192	0	0.24020E-07	458109.9	3769237.1	325.7	3.49	4.00	3.25 YES
L0011193	0	0.24020E-07	458118.5	3769237.1	325.8	3.49	4.00	3.25 YES
L0011194	0	0.71970E-07	459810.0	3768446.7	324.0	3.49	4.00	3.25 YES
L0011195	0	0.71970E-07	459809.9	3768455.3	324.0	3.49	4.00	3.25 YES
L0011196	0	0.71970E-07	459809.9	3768463.9	324.0	3.49	4.00	3.25 YES
L0011197	0	0.71970E-07	459809.9	3768472.5	324.0	3.49	4.00	3.25 YES
L0011198	0	0.71970E-07	459809.9	3768481.1	324.0	3.49	4.00	3.25 YES
L0011199	0	0.71970E-07	459809.8	3768489.7	324.0	3.49	4.00	3.25 YES
L0011200	0	0.71970E-07	459809.8	3768498.3	324.1	3.49	4.00	3.25 YES
L0011201	0	0.71970E-07	459809.8	3768506.8	324.4	3.49	4.00	3.25 YES
L0011202	0	0.71970E-07	459809.8	3768515.4	324.6	3.49	4.00	3.25 YES
L0011203	0	0.71970E-07	459809.8	3768524.0	324.9	3.49	4.00	3.25 YES
L0011204	0	0.71970E-07	459809.7	3768532.6	325.0	3.49	4.00	3.25 YES
L0011205	0	0.71970E-07	459809.7	3768541.2	325.0	3.49	4.00	3.25 YES
L0011206	0	0.71970E-07	459809.7	3768549.8	325.0	3.49	4.00	3.25 YES

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 L0011207         0   0.71970E-07  459809.7 3768558.4   325.0     3.49     4.00
3.25     YES
 L0011208         0   0.71970E-07  459809.7 3768567.0   325.0     3.49     4.00
3.25     YES
 L0011209         0   0.71970E-07  459809.6 3768575.6   325.0     3.49     4.00
3.25     YES
 L0011210         0   0.71970E-07  459809.6 3768584.2   325.0     3.49     4.00
3.25     YES
 L0011211         0   0.71970E-07  459809.6 3768592.7   325.0     3.49     4.00
3.25     YES
 L0011212         0   0.71970E-07  459809.6 3768601.3   325.0     3.49     4.00
3.25     YES
 L0011213         0   0.71970E-07  459809.6 3768609.9   325.0     3.49     4.00
3.25     YES
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                                                      *** VOLUME SOURCE DATA ***

               NUMBER EMISSION RATE                     BASE    RELEASE    INIT.
INIT.   URBAN  EMISSION RATE
   SOURCE       PART.  (GRAMS/SEC)     X        Y      ELEV.   HEIGHT      SY
SZ     SOURCE  SCALAR VARY
     ID         CATS.               (METERS) (METERS) (METERS) (METERS) (METERS)
(METERS)             BY
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
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 L0011214         0   0.71970E-07  459809.5 3768618.5   325.1     3.49     4.00
3.25     YES
 L0011215         0   0.71970E-07  459809.5 3768627.1   325.4     3.49     4.00
3.25     YES
 L0011216         0   0.71970E-07  459809.5 3768635.7   325.7     3.49     4.00
3.25     YES
 L0011217         0   0.71970E-07  459809.5 3768644.3   325.9     3.49     4.00
3.25     YES
 L0011218         0   0.71970E-07  459809.5 3768652.9   326.0     3.49     4.00
3.25     YES
 L0011219         0   0.71970E-07  459809.4 3768661.5   326.0     3.49     4.00
3.25     YES
 L0011220         0   0.71970E-07  459809.4 3768670.1   326.0     3.49     4.00
3.25     YES
```

L0011221	0	0.71970E-07	459809.4	3768678.6	326.0	3.49	4.00	3.25 YES
L0011222	0	0.71970E-07	459809.4	3768687.2	326.0	3.49	4.00	3.25 YES
L0011223	0	0.71970E-07	459809.4	3768695.8	326.0	3.49	4.00	3.25 YES
L0011224	0	0.71970E-07	459809.3	3768704.4	326.0	3.49	4.00	3.25 YES
L0011225	0	0.71970E-07	459809.3	3768713.0	326.0	3.49	4.00	3.25 YES
L0011226	0	0.71970E-07	459809.3	3768721.6	326.0	3.49	4.00	3.25 YES
L0011227	0	0.71970E-07	459809.3	3768730.2	326.0	3.49	4.00	3.25 YES
L0011228	0	0.71970E-07	459809.2	3768738.8	326.1	3.49	4.00	3.25 YES
L0011229	0	0.71970E-07	459809.2	3768747.4	326.4	3.49	4.00	3.25 YES
L0011230	0	0.71970E-07	459809.2	3768756.0	326.7	3.49	4.00	3.25 YES
L0011231	0	0.71970E-07	459809.2	3768764.5	326.9	3.49	4.00	3.25 YES
L0011232	0	0.71970E-07	459809.2	3768773.1	327.0	3.49	4.00	3.25 YES
L0011233	0	0.71970E-07	459809.1	3768781.7	327.0	3.49	4.00	3.25 YES
L0011234	0	0.71970E-07	459809.1	3768790.3	327.0	3.49	4.00	3.25 YES
L0011235	0	0.71970E-07	459809.1	3768798.9	327.0	3.49	4.00	3.25 YES
L0011236	0	0.71970E-07	459809.1	3768807.5	327.0	3.49	4.00	3.25 YES
L0011237	0	0.71970E-07	459809.1	3768816.1	327.0	3.49	4.00	3.25 YES
L0011238	0	0.71970E-07	459809.0	3768824.7	327.0	3.49	4.00	3.25 YES
L0011239	0	0.71970E-07	459809.0	3768833.3	327.0	3.49	4.00	3.25 YES
L0011240	0	0.71970E-07	459809.0	3768841.9	327.0	3.49	4.00	3.25 YES
L0011241	0	0.71970E-07	459809.0	3768850.4	327.0	3.49	4.00	3.25 YES
L0011242	0	0.71970E-07	459809.0	3768859.0	327.1	3.49	4.00	3.25 YES
L0011243	0	0.71970E-07	459808.9	3768867.6	327.4	3.49	4.00	3.25 YES
L0011244	0	0.71970E-07	459808.9	3768876.2	327.7	3.49	4.00	3.25 YES

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 L0011245         0   0.71970E-07  459808.9 3768884.8   327.9     3.49     4.00
3.25     YES
 L0011246         0   0.71970E-07  459808.9 3768893.4   328.0     3.49     4.00
3.25     YES
 L0011247         0   0.71970E-07  459808.9 3768902.0   328.0     3.49     4.00
3.25     YES
 L0011248         0   0.71970E-07  459808.8 3768910.6   328.0     3.49     4.00
3.25     YES
 L0011249         0   0.71970E-07  459808.8 3768919.2   328.0     3.49     4.00
3.25     YES
 L0011250         0   0.71970E-07  459808.8 3768927.8   328.0     3.49     4.00
3.25     YES
 L0011251         0   0.71970E-07  459808.8 3768936.3   328.0     3.49     4.00
3.25     YES
 L0011252         0   0.71970E-07  459808.8 3768944.9   328.0     3.49     4.00
3.25     YES
 L0011253         0   0.71970E-07  459808.7 3768953.5   328.2     3.49     4.00
3.25     YES
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                                                      *** VOLUME SOURCE DATA ***

               NUMBER EMISSION RATE                    BASE    RELEASE    INIT.
INIT.   URBAN  EMISSION RATE
   SOURCE       PART.  (GRAMS/SEC)     X        Y      ELEV.   HEIGHT      SY
SZ     SOURCE  SCALAR VARY
     ID         CATS.               (METERS) (METERS) (METERS) (METERS) (METERS)
(METERS)             BY
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
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 L0011254         0   0.71970E-07  459808.7 3768962.1   328.5     3.49     4.00
3.25     YES
 L0011255         0   0.71970E-07  459808.7 3768970.7   328.8     3.49     4.00
3.25     YES
 L0011256         0   0.71970E-07  459808.7 3768979.3   329.0     3.49     4.00
3.25     YES
 L0011257         0   0.71970E-07  459808.6 3768987.9   329.0     3.49     4.00
3.25     YES
 L0011258         0   0.71970E-07  459808.6 3768996.5   329.0     3.49     4.00
3.25     YES
```

L0011259	0	0.71970E-07	459808.6	3769005.1	329.0	3.49	4.00	3.25 YES
L0011260	0	0.71970E-07	459808.6	3769013.7	329.0	3.49	4.00	3.25 YES
L0011261	0	0.71970E-07	459808.6	3769022.2	329.0	3.49	4.00	3.25 YES
L0011262	0	0.71970E-07	459808.5	3769030.8	329.0	3.49	4.00	3.25 YES
L0011263	0	0.71970E-07	459808.5	3769039.4	329.1	3.49	4.00	3.25 YES
L0011264	0	0.71970E-07	459808.5	3769048.0	329.4	3.49	4.00	3.25 YES
L0011265	0	0.71970E-07	459808.5	3769056.6	329.7	3.49	4.00	3.25 YES
L0011266	0	0.71970E-07	459808.5	3769065.2	330.0	3.49	4.00	3.25 YES
L0011267	0	0.71970E-07	459808.4	3769073.8	330.0	3.49	4.00	3.25 YES
L0011268	0	0.71970E-07	459808.4	3769082.4	330.0	3.49	4.00	3.25 YES
L0011269	0	0.71970E-07	459808.4	3769091.0	330.0	3.49	4.00	3.25 YES
L0011270	0	0.71970E-07	459808.4	3769099.6	330.1	3.49	4.00	3.25 YES
L0011271	0	0.71970E-07	459808.4	3769108.1	330.2	3.49	4.00	3.25 YES
L0011272	0	0.71970E-07	459808.3	3769116.7	330.4	3.49	4.00	3.25 YES
L0011273	0	0.71970E-07	459808.3	3769125.3	330.6	3.49	4.00	3.25 YES
L0011274	0	0.71970E-07	459808.3	3769133.9	330.7	3.49	4.00	3.25 YES
L0011275	0	0.71970E-07	459808.3	3769142.5	330.8	3.49	4.00	3.25 YES
L0011276	0	0.71970E-07	459808.3	3769151.1	330.9	3.49	4.00	3.25 YES
L0011277	0	0.71970E-07	459808.2	3769159.7	331.0	3.49	4.00	3.25 YES
L0011278	0	0.71970E-07	459808.2	3769168.3	331.0	3.49	4.00	3.25 YES
L0011279	0	0.71970E-07	459808.2	3769176.9	331.0	3.49	4.00	3.25 YES
L0011280	0	0.71970E-07	459808.2	3769185.5	331.0	3.49	4.00	3.25 YES
L0011281	0	0.71970E-07	459808.2	3769194.0	331.3	3.49	4.00	3.25 YES
L0011282	0	0.71970E-07	459808.1	3769202.6	331.5	3.49	4.00	3.25 YES

 L0011283   0   0.71970E-07 459808.1 3769211.2   331.8   3.49   4.00
3.25   YES
 L0011284   0   0.71970E-07 459808.1 3769219.8   332.1   3.49   4.00
3.25   YES
 L0011285   0   0.71970E-07 459808.1 3769228.4   332.2   3.49   4.00
3.25   YES
 L0011286   0   0.71970E-07 459808.1 3769237.0   332.4   3.49   4.00
3.25   YES
 L0011287   0   0.71970E-07 459808.0 3769245.6   332.6   3.49   4.00
3.25   YES
 L0011288   0   0.71970E-07 459807.8 3769254.2   332.7   3.49   4.00
3.25   YES
 L0011289   0   0.71970E-07 459807.6 3769262.8   332.8   3.49   4.00
3.25   YES
 L0011290   0   0.71970E-07 459807.5 3769271.4   332.9   3.49   4.00
3.25   YES
 L0011291   0   0.71970E-07 459807.3 3769279.9   333.1   3.49   4.00
3.25   YES
 L0011292   0   0.71970E-07 459807.2 3769288.5   333.4   3.49   4.00
3.25   YES
 L0011293   0   0.71970E-07 459807.0 3769297.1   333.7   3.49   4.00
3.25   YES

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                                                    *** VOLUME SOURCE DATA ***

              NUMBER EMISSION RATE   BASE   RELEASE   INIT.
INIT.   URBAN EMISSION RATE
   SOURCE   PART. (GRAMS/SEC)   X   Y   ELEV.   HEIGHT   SY
SZ   SOURCE SCALAR VARY
     ID   CATS.   (METERS) (METERS) (METERS) (METERS) (METERS)
(METERS)   BY
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 L0011294   0   0.71970E-07 459806.9 3769305.7   334.0   3.49   4.00
3.25   YES
 L0011295   0   0.71970E-07 459806.7 3769314.3   334.3   3.49   4.00
3.25   YES
 L0011296   0   0.71970E-07 459806.6 3769322.9   334.6   3.49   4.00
3.25   YES

L0011297	0	0.71970E-07	459806.4	3769331.5	334.8	3.49	4.00	3.25 YES
L0011298	0	0.71970E-07	459806.2	3769340.1	335.0	3.49	4.00	3.25 YES
L0011299	0	0.71970E-07	459806.1	3769348.6	335.0	3.49	4.00	3.25 YES
L0011300	0	0.71970E-07	459805.9	3769357.2	335.0	3.49	4.00	3.25 YES
L0011301	0	0.71970E-07	459805.8	3769365.8	335.0	3.49	4.00	3.25 YES
L0011302	0	0.71970E-07	459805.6	3769374.4	335.0	3.49	4.00	3.25 YES
L0011303	0	0.71970E-07	459805.5	3769383.0	335.0	3.49	4.00	3.25 YES
L0011304	0	0.71970E-07	459805.3	3769391.6	335.0	3.49	4.00	3.25 YES
L0011305	0	0.71970E-07	459805.1	3769400.2	335.0	3.49	4.00	3.25 YES
L0011306	0	0.71970E-07	459805.0	3769408.8	335.0	3.49	4.00	3.25 YES
L0011307	0	0.71970E-07	459804.8	3769417.4	335.0	3.49	4.00	3.25 YES
L0011308	0	0.71970E-07	459804.7	3769425.9	335.0	3.49	4.00	3.25 YES
L0011309	0	0.71970E-07	459804.5	3769434.5	335.0	3.49	4.00	3.25 YES
L0011310	0	0.71970E-07	459804.4	3769443.1	335.0	3.49	4.00	3.25 YES
L0011311	0	0.71970E-07	459804.2	3769451.7	335.0	3.49	4.00	3.25 YES
L0011312	0	0.71970E-07	459804.1	3769460.3	335.2	3.49	4.00	3.25 YES
L0011313	0	0.71970E-07	459803.9	3769468.9	335.6	3.49	4.00	3.25 YES
L0011314	0	0.71970E-07	459803.7	3769477.5	336.1	3.49	4.00	3.25 YES
L0011315	0	0.71970E-07	459803.6	3769486.1	336.5	3.49	4.00	3.25 YES
L0011316	0	0.71970E-07	459803.4	3769494.7	337.6	3.49	4.00	3.25 YES
L0011317	0	0.71970E-07	459803.3	3769503.2	338.8	3.49	4.00	3.25 YES
L0011318	0	0.71970E-07	459803.1	3769511.8	339.9	3.49	4.00	3.25 YES
L0011319	0	0.71970E-07	459803.0	3769520.4	340.5	3.49	4.00	3.25 YES
L0011320	0	0.71970E-07	459802.8	3769529.0	340.7	3.49	4.00	3.25 YES

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 L0011321         0   0.71970E-07  459802.6 3769537.6   340.8     3.49     4.00
3.25     YES
 L0011322         0   0.71970E-07  459802.5 3769546.2   341.0     3.49     4.00
3.25     YES
 L0011323         0   0.71970E-07  459802.3 3769554.8   341.0     3.49     4.00
3.25     YES
 L0011324         0   0.71970E-07  459802.2 3769563.4   341.0     3.49     4.00
3.25     YES
 L0011325         0   0.71970E-07  459802.0 3769572.0   341.0     3.49     4.00
3.25     YES
 L0011326         0   0.71970E-07  459801.9 3769580.5   341.0     3.49     4.00
3.25     YES
 L0011327         0   0.71970E-07  459801.7 3769589.1   341.0     3.49     4.00
3.25     YES
 L0011328         0   0.71970E-07  459801.5 3769597.7   341.0     3.49     4.00
3.25     YES
 L0011329         0   0.71970E-07  459801.4 3769606.3   341.0     3.49     4.00
3.25     YES
 L0011330         0   0.71970E-07  459801.2 3769614.9   341.0     3.49     4.00
3.25     YES
 L0011331         0   0.71970E-07  459801.1 3769623.5   341.0     3.49     4.00
3.25     YES
 L0011332         0   0.71970E-07  459800.9 3769632.1   341.0     3.49     4.00
3.25     YES
 L0011333         0   0.71970E-07  459800.8 3769640.7   341.0     3.49     4.00
3.25     YES
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                                                    *** VOLUME SOURCE DATA ***

               NUMBER EMISSION RATE                    BASE    RELEASE    INIT.
INIT.   URBAN  EMISSION RATE
   SOURCE       PART.  (GRAMS/SEC)     X        Y      ELEV.   HEIGHT      SY
SZ     SOURCE  SCALAR VARY
     ID         CATS.               (METERS) (METERS) (METERS) (METERS) (METERS)
(METERS)             BY
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - -

 L0011334         0   0.71970E-07  459800.6 3769649.2   341.0     3.49     4.00
3.25     YES
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L0011335	0	0.71970E-07	459800.5	3769657.8	341.0	3.49	4.00	3.25 YES
L0011336	0	0.71970E-07	459800.3	3769666.4	341.0	3.49	4.00	3.25 YES
L0011337	0	0.71970E-07	459800.1	3769675.0	341.0	3.49	4.00	3.25 YES
L0011338	0	0.71970E-07	459800.0	3769683.6	341.0	3.49	4.00	3.25 YES
L0011339	0	0.71970E-07	459799.8	3769692.2	341.0	3.49	4.00	3.25 YES
L0011340	0	0.71970E-07	459799.7	3769700.8	341.0	3.49	4.00	3.25 YES
L0011341	0	0.71970E-07	459799.5	3769709.4	341.0	3.49	4.00	3.25 YES
L0011342	0	0.71970E-07	459799.4	3769718.0	341.0	3.49	4.00	3.25 YES
L0011343	0	0.71970E-07	459799.2	3769726.5	341.0	3.49	4.00	3.25 YES
L0011344	0	0.71970E-07	459799.0	3769735.1	341.0	3.49	4.00	3.25 YES
L0011345	0	0.71970E-07	459798.9	3769743.7	341.0	3.49	4.00	3.25 YES
L0011346	0	0.56360E-06	459385.2	3767599.6	319.8	3.49	9.30	3.25 YES
L0011347	0	0.56360E-06	459365.2	3767599.4	319.7	3.49	9.30	3.25 YES
L0011348	0	0.56360E-06	459345.2	3767599.2	319.1	3.49	9.30	3.25 YES
L0011349	0	0.56360E-06	459325.2	3767599.0	318.9	3.49	9.30	3.25 YES
L0011350	0	0.56360E-06	459305.2	3767598.8	318.9	3.49	9.30	3.25 YES
L0011351	0	0.56360E-06	459285.2	3767598.6	318.9	3.49	9.30	3.25 YES
L0011352	0	0.56360E-06	459265.2	3767598.4	318.4	3.49	9.30	3.25 YES
L0011353	0	0.56360E-06	459245.2	3767598.2	317.8	3.49	9.30	3.25 YES
L0011354	0	0.56360E-06	459225.2	3767598.0	317.2	3.49	9.30	3.25 YES
L0011355	0	0.56360E-06	459205.2	3767597.7	317.0	3.49	9.30	3.25 YES
L0011356	0	0.56360E-06	459185.2	3767597.5	317.0	3.49	9.30	3.25 YES
L0011357	0	0.56360E-06	459165.2	3767597.3	317.0	3.49	9.30	3.25 YES
L0011358	0	0.56360E-06	459145.2	3767597.1	316.5	3.49	9.30	3.25 YES

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 L0011359         0   0.56360E-06  459125.2 3767596.9   316.0     3.49     9.30
3.25     YES
 L0011360         0   0.56360E-06  459105.2 3767596.7   316.0     3.49     9.30
3.25     YES
 L0011361         0   0.56360E-06  459085.2 3767596.5   316.0     3.49     9.30
3.25     YES
 L0011362         0   0.56360E-06  459065.2 3767596.3   315.9     3.49     9.30
3.25     YES
 L0011363         0   0.56360E-06  459045.2 3767596.1   315.2     3.49     9.30
3.25     YES
 L0011364         0   0.56360E-06  459025.2 3767595.9   315.0     3.49     9.30
3.25     YES
 L0011365         0   0.56360E-06  459005.2 3767595.7   315.0     3.49     9.30
3.25     YES
 L0011366         0   0.56360E-06  458985.2 3767595.5   315.0     3.49     9.30
3.25     YES
 L0011367         0   0.56360E-06  458965.2 3767595.3   314.5     3.49     9.30
3.25     YES
 L0011368         0   0.56360E-06  458945.2 3767595.1   314.0     3.49     9.30
3.25     YES
 L0011369         0   0.56360E-06  458925.2 3767594.9   314.0     3.49     9.30
3.25     YES
 L0011370         0   0.56360E-06  458905.2 3767594.7   313.5     3.49     9.30
3.25     YES
 L0011371         0   0.56360E-06  458885.2 3767594.5   313.0     3.49     9.30
3.25     YES
 L0011372         0   0.56360E-06  458865.2 3767594.3   313.0     3.49     9.30
3.25     YES
 L0011373         0   0.56360E-06  458845.2 3767594.1   313.0     3.49     9.30
3.25     YES
 *** AERMOD - VERSION  18081 ***   *** C:\LAKES\AERMOD VIEW\12979 HRA\12979
HRA.ISC                          ***        10/07/19
 *** AERMET - VERSION  16216 ***   ***
                       ***        12:30:42

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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*


                                                      *** VOLUME SOURCE DATA ***

              NUMBER EMISSION RATE                    BASE    RELEASE    INIT.
INIT.   URBAN  EMISSION RATE
   SOURCE       PART.  (GRAMS/SEC)     X        Y      ELEV.   HEIGHT      SY
SZ     SOURCE  SCALAR VARY
     ID         CATS.               (METERS) (METERS) (METERS) (METERS) (METERS)
(METERS)             BY
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L0011374	0	0.56360E-06	458825.2	3767593.9	312.9	3.49	9.30	3.25	YES
L0011375	0	0.56360E-06	458805.2	3767593.6	312.2	3.49	9.30	3.25	YES
L0011376	0	0.56360E-06	458785.2	3767593.4	312.0	3.49	9.30	3.25	YES
L0011377	0	0.56360E-06	458765.2	3767593.2	312.0	3.49	9.30	3.25	YES
L0011378	0	0.56360E-06	458745.2	3767593.0	312.0	3.49	9.30	3.25	YES
L0011379	0	0.56360E-06	458725.2	3767592.8	312.0	3.49	9.30	3.25	YES
L0011380	0	0.56360E-06	458705.2	3767592.6	312.0	3.49	9.30	3.25	YES
L0011381	0	0.56360E-06	458685.2	3767592.4	312.0	3.49	9.30	3.25	YES
L0011382	0	0.56360E-06	458665.2	3767592.2	312.0	3.49	9.30	3.25	YES
L0011383	0	0.56360E-06	458645.2	3767592.0	311.9	3.49	9.30	3.25	YES
L0011384	0	0.56360E-06	458625.2	3767591.8	311.2	3.49	9.30	3.25	YES
L0011385	0	0.56360E-06	458605.2	3767591.9	311.0	3.49	9.30	3.25	YES
L0011386	0	0.56360E-06	458585.2	3767591.9	311.0	3.49	9.30	3.25	YES
L0011387	0	0.56360E-06	458565.2	3767592.0	311.0	3.49	9.30	3.25	YES
L0011388	0	0.56360E-06	458545.2	3767592.1	311.0	3.49	9.30	3.25	YES
L0011389	0	0.56360E-06	458525.2	3767592.1	311.0	3.49	9.30	3.25	YES
L0011390	0	0.56360E-06	458505.2	3767592.2	311.0	3.49	9.30	3.25	YES
L0011391	0	0.56360E-06	458485.2	3767592.3	310.5	3.49	9.30	3.25	YES
L0011392	0	0.56360E-06	458465.2	3767592.3	310.0	3.49	9.30	3.25	YES
L0011393	0	0.56360E-06	458445.2	3767592.4	310.0	3.49	9.30	3.25	YES
L0011394	0	0.56360E-06	458425.2	3767592.5	310.0	3.49	9.30	3.25	YES
L0011395	0	0.56360E-06	458405.2	3767592.5	310.0	3.49	9.30	3.25	YES
L0011396	0	0.56360E-06	458385.2	3767592.6	310.0	3.49	9.30	3.25	YES

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 L0011397         0   0.56360E-06  458365.2 3767592.7   310.0     3.49     9.30
3.25     YES
 L0011398         0   0.56360E-06  458345.2 3767592.7   310.0     3.49     9.30
3.25     YES
 L0011399         0   0.56360E-06  458325.2 3767592.8   310.0     3.49     9.30
3.25     YES
 L0011400         0   0.56360E-06  458305.2 3767592.8   309.9     3.49     9.30
3.25     YES
 L0011401         0   0.56360E-06  458285.2 3767592.9   309.8     3.49     9.30
3.25     YES
 L0011402         0   0.56360E-06  458265.2 3767593.0   309.2     3.49     9.30
3.25     YES
 L0011403         0   0.56360E-06  458245.2 3767592.9   309.0     3.49     9.30
3.25     YES
 L0011404         0   0.56360E-06  458225.2 3767592.2   309.0     3.49     9.30
3.25     YES
 L0011405         0   0.56360E-06  458205.2 3767591.5   309.0     3.49     9.30
3.25     YES
 L0011406         0   0.56360E-06  458185.2 3767590.8   308.9     3.49     9.30
3.25     YES
 L0011407         0   0.56360E-06  458165.2 3767590.1   308.7     3.49     9.30
3.25     YES
 L0011408         0   0.56360E-06  458145.3 3767589.4   308.2     3.49     9.30
3.25     YES
 L0011409         0   0.56360E-06  458125.3 3767588.8   308.0     3.49     9.30
3.25     YES
 L0011410         0   0.13200E-06  458112.9 3767594.3   308.0     3.49     4.00
3.25     YES
 L0011411         0   0.13200E-06  458113.0 3767602.8   308.0     3.49     4.00
3.25     YES
 L0011412         0   0.13200E-06  458113.0 3767611.4   308.1     3.49     4.00
3.25     YES
 L0011413         0   0.13200E-06  458113.1 3767620.0   308.1     3.49     4.00
3.25     YES
 *** AERMOD - VERSION  18081 ***   *** C:\LAKES\AERMOD VIEW\12979 HRA\12979
HRA.ISC                        ***        10/07/19
 *** AERMET - VERSION  16216 ***   ***
                        ***        12:30:42

                                  PAGE  36
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*


                                                    *** VOLUME SOURCE DATA ***

              NUMBER EMISSION RATE                    BASE    RELEASE    INIT.
INIT.   URBAN  EMISSION RATE
   SOURCE       PART.  (GRAMS/SEC)     X         Y      ELEV.   HEIGHT      SY
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SZ (METERS)	SOURCE ID	SCALAR CATS.	VARY BY	(METERS)	(METERS)	(METERS)	(METERS)	(METERS)	(METERS)
	L0011414	0	0.13200E-06	458113.2	3767628.6	308.2	3.49	4.00	3.25 YES
	L0011415	0	0.13200E-06	458113.3	3767637.2	308.4	3.49	4.00	3.25 YES
	L0011416	0	0.13200E-06	458113.3	3767645.8	308.7	3.49	4.00	3.25 YES
	L0011417	0	0.13200E-06	458113.4	3767654.4	308.9	3.49	4.00	3.25 YES
	L0011418	0	0.13200E-06	458113.5	3767663.0	309.0	3.49	4.00	3.25 YES
	L0011419	0	0.13200E-06	458113.5	3767671.6	309.0	3.49	4.00	3.25 YES
	L0011420	0	0.13200E-06	458113.6	3767680.1	309.0	3.49	4.00	3.25 YES
	L0011421	0	0.13200E-06	458113.7	3767688.7	309.0	3.49	4.00	3.25 YES
	L0011422	0	0.13200E-06	458113.7	3767697.3	309.1	3.49	4.00	3.25 YES
	L0011423	0	0.13200E-06	458113.8	3767705.9	309.1	3.49	4.00	3.25 YES
	L0011424	0	0.13200E-06	458113.9	3767714.5	309.1	3.49	4.00	3.25 YES
	L0011425	0	0.13200E-06	458114.0	3767723.1	309.3	3.49	4.00	3.25 YES
	L0011426	0	0.13200E-06	458114.0	3767731.7	309.6	3.49	4.00	3.25 YES
	L0011427	0	0.13200E-06	458114.1	3767740.3	309.8	3.49	4.00	3.25 YES
	L0011428	0	0.13200E-06	458114.3	3767748.9	310.0	3.49	4.00	3.25 YES
	L0011429	0	0.13200E-06	458114.4	3767757.5	310.0	3.49	4.00	3.25 YES
	L0011430	0	0.13200E-06	458114.6	3767766.0	310.0	3.49	4.00	3.25 YES
	L0011431	0	0.13200E-06	458114.7	3767774.6	310.0	3.49	4.00	3.25 YES
	L0011432	0	0.13200E-06	458114.9	3767783.2	310.0	3.49	4.00	3.25 YES
	L0011433	0	0.13200E-06	458115.0	3767791.8	310.1	3.49	4.00	3.25 YES
	L0011434	0	0.13200E-06	458115.2	3767800.4	310.2	3.49	4.00	3.25 YES

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 L0011435         0   0.13200E-06  458115.3 3767809.0   310.3     3.49     4.00
3.25     YES
 L0011436         0   0.13200E-06  458115.5 3767817.6   310.5     3.49     4.00
3.25     YES
 L0011437         0   0.13200E-06  458115.7 3767826.2   310.7     3.49     4.00
3.25     YES
 L0011438         0   0.13200E-06  458115.8 3767834.8   311.0     3.49     4.00
3.25     YES
 L0011439         0   0.13200E-06  458116.0 3767843.3   311.0     3.49     4.00
3.25     YES
 L0011440         0   0.13200E-06  458116.1 3767851.9   311.0     3.49     4.00
3.25     YES
 L0011441         0   0.13200E-06  458116.3 3767860.5   311.0     3.49     4.00
3.25     YES
 L0011442         0   0.13200E-06  458116.4 3767869.1   311.0     3.49     4.00
3.25     YES
 L0011443         0   0.13200E-06  458116.6 3767877.7   311.0     3.49     4.00
3.25     YES
 L0011444         0   0.13200E-06  458116.7 3767886.3   311.0     3.49     4.00
3.25     YES
 L0011445         0   0.13200E-06  458116.9 3767894.9   311.0     3.49     4.00
3.25     YES
 L0011446         0   0.13200E-06  458117.0 3767903.5   311.2     3.49     4.00
3.25     YES
 L0011447         0   0.13200E-06  458117.1 3767912.1   311.5     3.49     4.00
3.25     YES
 L0011448         0   0.13200E-06  458117.1 3767920.6   311.8     3.49     4.00
3.25     YES
 L0011449         0   0.13200E-06  458117.2 3767929.2   312.0     3.49     4.00
3.25     YES
 L0011450         0   0.13200E-06  458117.2 3767937.8   312.0     3.49     4.00
3.25     YES
 L0011451         0   0.13200E-06  458117.2 3767946.4   312.0     3.49     4.00
3.25     YES
 L0011452         0   0.13200E-06  458117.3 3767955.0   312.0     3.49     4.00
3.25     YES
 L0011453         0   0.13200E-06  458117.3 3767963.6   312.0     3.49     4.00
3.25     YES
 *** AERMOD - VERSION  18081 ***   *** C:\LAKES\AERMOD VIEW\12979 HRA\12979
HRA.ISC                        ***        10/07/19
 *** AERMET - VERSION  16216 ***   ***
                        ***        12:30:42

                                   PAGE  37
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*


                                                  *** VOLUME SOURCE DATA ***
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SOURCE ID	NUMBER PART. SCALAR CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	URBAN SOURCE SZ	INIT. EMISSION RATE VARY BY
L0011454	0	0.13200E-06	458117.3	3767972.2	312.0	3.49	4.00	YES	3.25
L0011455	0	0.13200E-06	458117.4	3767980.8	312.0	3.49	4.00	YES	3.25
L0011456	0	0.13200E-06	458117.4	3767989.4	312.0	3.49	4.00	YES	3.25
L0011457	0	0.13200E-06	458117.4	3767997.9	312.0	3.49	4.00	YES	3.25
L0011458	0	0.13200E-06	458117.5	3768006.5	312.0	3.49	4.00	YES	3.25
L0011459	0	0.13200E-06	458117.5	3768015.1	312.0	3.49	4.00	YES	3.25
L0011460	0	0.13200E-06	458117.5	3768023.7	312.2	3.49	4.00	YES	3.25
L0011461	0	0.13200E-06	458117.6	3768032.3	312.5	3.49	4.00	YES	3.25
L0011462	0	0.13200E-06	458117.6	3768040.9	312.8	3.49	4.00	YES	3.25
L0011463	0	0.13200E-06	458117.6	3768049.5	313.0	3.49	4.00	YES	3.25
L0011464	0	0.13200E-06	458117.7	3768058.1	313.0	3.49	4.00	YES	3.25
L0011465	0	0.13200E-06	458117.7	3768066.7	313.0	3.49	4.00	YES	3.25
L0011466	0	0.13200E-06	458117.8	3768075.3	313.0	3.49	4.00	YES	3.25
L0011467	0	0.13200E-06	458117.8	3768083.8	313.0	3.49	4.00	YES	3.25
L0011468	0	0.13200E-06	458117.8	3768092.4	313.0	3.49	4.00	YES	3.25
L0011469	0	0.13200E-06	458117.9	3768101.0	313.0	3.49	4.00	YES	3.25
L0011470	0	0.13200E-06	458117.9	3768109.6	313.0	3.49	4.00	YES	3.25
L0011471	0	0.13200E-06	458117.9	3768118.2	313.1	3.49	4.00	YES	3.25
L0011472	0	0.13200E-06	458118.0	3768126.8	313.2	3.49	4.00	YES	3.25

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 L0011473         0   0.13200E-06  458118.0 3768135.4   313.3     3.49     4.00
3.25     YES
 L0011474         0   0.13200E-06  458118.0 3768144.0   313.5     3.49     4.00
3.25     YES
 L0011475         0   0.13200E-06  458118.1 3768152.6   313.7     3.49     4.00
3.25     YES
 L0011476         0   0.13200E-06  458118.1 3768161.2   313.9     3.49     4.00
3.25     YES
 L0011477         0   0.13200E-06  458118.1 3768169.7   314.0     3.49     4.00
3.25     YES
 L0011478         0   0.13200E-06  458118.2 3768178.3   314.0     3.49     4.00
3.25     YES
 L0011479         0   0.13200E-06  458118.2 3768186.9   314.0     3.49     4.00
3.25     YES
 L0011480         0   0.13200E-06  458118.3 3768195.5   314.0     3.49     4.00
3.25     YES
 L0011481         0   0.13200E-06  458118.3 3768204.1   314.1     3.49     4.00
3.25     YES
 L0011482         0   0.13200E-06  458118.3 3768212.7   314.2     3.49     4.00
3.25     YES
 L0011483         0   0.13200E-06  458118.4 3768221.3   314.2     3.49     4.00
3.25     YES
 L0011484         0   0.13200E-06  458118.4 3768229.9   314.4     3.49     4.00
3.25     YES
 L0011485         0   0.13200E-06  458118.4 3768238.5   314.6     3.49     4.00
3.25     YES
 L0011486         0   0.13200E-06  458118.5 3768247.1   314.8     3.49     4.00
3.25     YES
 L0011487         0   0.13200E-06  458118.5 3768255.6   315.0     3.49     4.00
3.25     YES
 L0011488         0   0.13200E-06  458118.5 3768264.2   315.0     3.49     4.00
3.25     YES
 L0011489         0   0.13200E-06  458118.6 3768272.8   315.0     3.49     4.00
3.25     YES
 L0011490         0   0.13200E-06  458118.6 3768281.4   315.0     3.49     4.00
3.25     YES
 L0011491         0   0.13200E-06  458118.6 3768290.0   315.0     3.49     4.00
3.25     YES
 L0011492         0   0.13200E-06  458118.7 3768298.6   315.1     3.49     4.00
3.25     YES
 L0011493         0   0.13200E-06  458118.7 3768307.2   315.2     3.49     4.00
3.25     YES
 *** AERMOD - VERSION  18081 ***   *** C:\LAKES\AERMOD VIEW\12979 HRA\12979
HRA.ISC                        ***        10/07/19
 *** AERMET - VERSION  16216 ***   ***
                          ***       12:30:42
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE VARY BY
L0011494	0	0.13200E-06	458118.8	3768315.8	315.3	3.49	4.00	3.25	YES	
L0011495	0	0.13200E-06	458118.8	3768324.4	315.5	3.49	4.00	3.25	YES	
L0011496	0	0.13200E-06	458118.8	3768333.0	315.7	3.49	4.00	3.25	YES	
L0011497	0	0.13200E-06	458118.9	3768341.5	315.9	3.49	4.00	3.25	YES	
L0011498	0	0.13200E-06	458118.9	3768350.1	316.0	3.49	4.00	3.25	YES	
L0011499	0	0.13200E-06	458118.9	3768358.7	316.0	3.49	4.00	3.25	YES	
L0011500	0	0.13200E-06	458119.0	3768367.3	316.0	3.49	4.00	3.25	YES	
L0011501	0	0.13200E-06	458119.0	3768375.9	316.0	3.49	4.00	3.25	YES	
L0011502	0	0.13200E-06	458119.0	3768384.5	316.1	3.49	4.00	3.25	YES	
L0011503	0	0.13200E-06	458119.1	3768393.1	316.2	3.49	4.00	3.25	YES	
L0011504	0	0.13200E-06	458119.1	3768401.7	316.3	3.49	4.00	3.25	YES	
L0011505	0	0.13200E-06	458119.1	3768410.3	316.4	3.49	4.00	3.25	YES	
L0011506	0	0.13200E-06	458119.2	3768418.9	316.6	3.49	4.00	3.25	YES	
L0011507	0	0.13200E-06	458119.2	3768427.4	316.8	3.49	4.00	3.25	YES	
L0011508	0	0.11170E-06	458118.5	3768447.2	317.0	3.49	4.00	3.25	YES	
L0011509	0	0.11170E-06	458118.6	3768455.8	317.0	3.49	4.00	3.25	YES	
L0011510	0	0.11170E-06	458118.6	3768464.4	317.0	3.49	4.00	3.25	YES	

L0011511	0	0.11170E-06	458118.7	3768473.0	317.0	3.49	4.00	3.25 YES
L0011512	0	0.11170E-06	458118.8	3768481.5	317.0	3.49	4.00	3.25 YES
L0011513	0	0.11170E-06	458118.9	3768490.1	317.0	3.49	4.00	3.25 YES
L0011514	0	0.11170E-06	458118.9	3768498.7	317.1	3.49	4.00	3.25 YES
L0011515	0	0.11170E-06	458119.0	3768507.3	317.4	3.49	4.00	3.25 YES
L0011516	0	0.11170E-06	458119.1	3768515.9	317.7	3.49	4.00	3.25 YES
L0011517	0	0.11170E-06	458119.2	3768524.5	317.9	3.49	4.00	3.25 YES
L0011518	0	0.11170E-06	458119.2	3768533.1	318.0	3.49	4.00	3.25 YES
L0011519	0	0.11170E-06	458119.3	3768541.7	318.0	3.49	4.00	3.25 YES
L0011520	0	0.11170E-06	458119.4	3768550.3	318.0	3.49	4.00	3.25 YES
L0011521	0	0.11170E-06	458119.5	3768558.9	318.0	3.49	4.00	3.25 YES
L0011522	0	0.11170E-06	458119.5	3768567.4	318.0	3.49	4.00	3.25 YES
L0011523	0	0.11170E-06	458119.6	3768576.0	318.0	3.49	4.00	3.25 YES
L0011524	0	0.11170E-06	458119.7	3768584.6	318.0	3.49	4.00	3.25 YES
L0011525	0	0.11170E-06	458119.8	3768593.2	318.2	3.49	4.00	3.25 YES
L0011526	0	0.11170E-06	458119.8	3768601.8	318.5	3.49	4.00	3.25 YES
L0011527	0	0.11170E-06	458119.9	3768610.4	318.8	3.49	4.00	3.25 YES
L0011528	0	0.11170E-06	458120.0	3768619.0	319.0	3.49	4.00	3.25 YES
L0011529	0	0.11170E-06	458120.1	3768627.6	319.0	3.49	4.00	3.25 YES
L0011530	0	0.11170E-06	458120.1	3768636.2	319.0	3.49	4.00	3.25 YES
L0011531	0	0.11170E-06	458120.2	3768644.8	319.0	3.49	4.00	3.25 YES
L0011532	0	0.11170E-06	458120.3	3768653.3	319.0	3.49	4.00	3.25 YES
L0011533	0	0.11170E-06	458120.3	3768661.9	319.0	3.49	4.00	3.25 YES

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER EMISSION RATE PART. SCALAR CATS.	EMISSION RATE (GRAMS/SEC) VARY BY	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE
L0011534	0	0.11170E-06	458120.4	3768670.5	319.0	3.49	4.00	3.25	YES
L0011535	0	0.11170E-06	458120.4	3768679.1	319.0	3.49	4.00	3.25	YES
L0011536	0	0.11170E-06	458120.4	3768687.7	319.1	3.49	4.00	3.25	YES
L0011537	0	0.11170E-06	458120.5	3768696.3	319.2	3.49	4.00	3.25	YES
L0011538	0	0.11170E-06	458120.5	3768704.9	319.4	3.49	4.00	3.25	YES
L0011539	0	0.11170E-06	458120.5	3768713.5	319.5	3.49	4.00	3.25	YES
L0011540	0	0.11170E-06	458120.5	3768722.1	319.7	3.49	4.00	3.25	YES
L0011541	0	0.11170E-06	458120.6	3768730.7	319.9	3.49	4.00	3.25	YES
L0011542	0	0.11170E-06	458120.6	3768739.2	320.0	3.49	4.00	3.25	YES
L0011543	0	0.11170E-06	458120.6	3768747.8	320.0	3.49	4.00	3.25	YES
L0011544	0	0.11170E-06	458120.7	3768756.4	320.0	3.49	4.00	3.25	YES
L0011545	0	0.11170E-06	458120.7	3768765.0	320.0	3.49	4.00	3.25	YES
L0011546	0	0.11170E-06	458120.7	3768773.6	320.2	3.49	4.00	3.25	YES
L0011547	0	0.11170E-06	458120.8	3768782.2	320.5	3.49	4.00	3.25	YES
L0011548	0	0.11170E-06	458120.8	3768790.8	320.8	3.49	4.00	3.25	YES

L0011549	0	0.11170E-06	458120.8	3768799.4	321.0	3.49	4.00	3.25 YES
L0011550	0	0.11170E-06	458120.8	3768808.0	321.0	3.49	4.00	3.25 YES
L0011551	0	0.11170E-06	458120.9	3768816.6	321.0	3.49	4.00	3.25 YES
L0011552	0	0.11170E-06	458120.9	3768825.1	321.0	3.49	4.00	3.25 YES
L0011553	0	0.11170E-06	458120.9	3768833.7	321.0	3.49	4.00	3.25 YES
L0011554	0	0.11170E-06	458121.0	3768842.3	321.0	3.49	4.00	3.25 YES
L0011555	0	0.11170E-06	458121.0	3768850.9	321.0	3.49	4.00	3.25 YES
L0011556	0	0.11170E-06	458121.0	3768859.5	321.1	3.49	4.00	3.25 YES
L0011557	0	0.11170E-06	458121.1	3768868.1	321.4	3.49	4.00	3.25 YES
L0011558	0	0.11170E-06	458121.1	3768876.7	321.7	3.49	4.00	3.25 YES
L0011559	0	0.11170E-06	458121.3	3768885.3	322.0	3.49	4.00	3.25 YES
L0011560	0	0.11170E-06	458121.4	3768893.9	322.0	3.49	4.00	3.25 YES
L0011561	0	0.11170E-06	458121.6	3768902.4	322.0	3.49	4.00	3.25 YES
L0011562	0	0.11170E-06	458121.7	3768911.0	322.0	3.49	4.00	3.25 YES
L0011563	0	0.11170E-06	458121.9	3768919.6	322.0	3.49	4.00	3.25 YES
L0011564	0	0.11170E-06	458122.0	3768928.2	322.0	3.49	4.00	3.25 YES
L0011565	0	0.11170E-06	458122.2	3768936.8	322.0	3.49	4.00	3.25 YES
L0011566	0	0.11170E-06	458122.4	3768945.4	322.0	3.49	4.00	3.25 YES
L0011567	0	0.11170E-06	458122.5	3768954.0	322.2	3.49	4.00	3.25 YES
L0011568	0	0.11170E-06	458122.7	3768962.6	322.5	3.49	4.00	3.25 YES
L0011569	0	0.11170E-06	458122.8	3768971.2	322.8	3.49	4.00	3.25 YES
L0011570	0	0.11170E-06	458123.0	3768979.7	323.0	3.49	4.00	3.25 YES
L0011571	0	0.11170E-06	458123.1	3768988.3	323.0	3.49	4.00	3.25 YES
L0011572	0	0.11170E-06	458123.3	3768996.9	323.0	3.49	4.00	3.25 YES

 L0011573   0   0.11170E-06 458123.4 3769005.5   323.0   3.49   4.00
3.25   YES

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

               NUMBER EMISSION RATE   BASE   RELEASE   INIT.
INIT.   URBAN EMISSION RATE
   SOURCE   PART. (GRAMS/SEC)   X   Y   ELEV.   HEIGHT   SY
SZ   SOURCE SCALAR VARY
     ID   CATS.   (METERS) (METERS) (METERS) (METERS) (METERS)
(METERS)   BY
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- - - - - - - - - - - - - - - - - - - -

 L0011574   0   0.11170E-06 458123.5 3769014.1   323.1   3.49   4.00
3.25   YES
 L0011575   0   0.11170E-06 458123.7 3769022.7   323.3   3.49   4.00
3.25   YES
 L0011576   0   0.11170E-06 458123.8 3769031.3   323.4   3.49   4.00
3.25   YES
 L0011577   0   0.11170E-06 458124.0 3769039.9   323.5   3.49   4.00
3.25   YES
 L0011578   0   0.11170E-06 458124.1 3769048.5   323.7   3.49   4.00
3.25   YES
 L0011579   0   0.11170E-06 458124.2 3769057.0   323.8   3.49   4.00
3.25   YES
 L0011580   0   0.11170E-06 458124.4 3769065.6   324.0   3.49   4.00
3.25   YES
 L0011581   0   0.11170E-06 458124.5 3769074.2   324.0   3.49   4.00
3.25   YES
 L0011582   0   0.11170E-06 458124.7 3769082.8   324.0   3.49   4.00
3.25   YES
 L0011583   0   0.11170E-06 458124.8 3769091.4   324.0   3.49   4.00
3.25   YES
 L0011584   0   0.11170E-06 458124.9 3769100.0   324.1   3.49   4.00
3.25   YES
 L0011585   0   0.11170E-06 458125.1 3769108.6   324.2   3.49   4.00
3.25   YES
 L0011586   0   0.11170E-06 458125.2 3769117.2   324.4   3.49   4.00
3.25   YES

L0011587	0	0.11170E-06	458125.3	3769125.8	324.5	3.49	4.00	3.25 YES
L0011588	0	0.11170E-06	458125.5	3769134.3	324.7	3.49	4.00	3.25 YES
L0011589	0	0.11170E-06	458125.6	3769142.9	324.8	3.49	4.00	3.25 YES
L0011590	0	0.11170E-06	458125.8	3769151.5	324.9	3.49	4.00	3.25 YES
L0011591	0	0.11170E-06	458125.9	3769160.1	325.0	3.49	4.00	3.25 YES
L0011592	0	0.11170E-06	458126.0	3769168.7	325.0	3.49	4.00	3.25 YES
L0011593	0	0.11170E-06	458126.5	3769177.3	325.0	3.49	4.00	3.25 YES
L0011594	0	0.11170E-06	458127.1	3769185.8	325.0	3.49	4.00	3.25 YES
L0011595	0	0.11170E-06	458127.6	3769194.4	325.2	3.49	4.00	3.25 YES
L0011596	0	0.11170E-06	458128.2	3769203.0	325.3	3.49	4.00	3.25 YES
L0011597	0	0.11170E-06	458128.9	3769211.5	325.5	3.49	4.00	3.25 YES
L0011598	0	0.11170E-06	458129.8	3769220.1	325.7	3.49	4.00	3.25 YES
L0011599	0	0.11170E-06	458130.8	3769228.6	325.8	3.49	4.00	3.25 YES
L0011600	0	0.11170E-06	458131.7	3769237.2	325.9	3.49	4.00	3.25 YES
L0011601	0	0.87890E-07	458131.8	3769249.9	326.1	3.49	4.00	3.25 YES
L0011602	0	0.87890E-07	458131.6	3769258.5	326.3	3.49	4.00	3.25 YES
L0011603	0	0.87890E-07	458131.3	3769267.1	326.5	3.49	4.00	3.25 YES
L0011604	0	0.87890E-07	458131.1	3769275.7	326.7	3.49	4.00	3.25 YES
L0011605	0	0.87890E-07	458130.9	3769284.3	326.7	3.49	4.00	3.25 YES
L0011606	0	0.87890E-07	458130.7	3769292.9	326.7	3.49	4.00	3.25 YES
L0011607	0	0.87890E-07	458130.5	3769301.5	326.7	3.49	4.00	3.25 YES
L0011608	0	0.87890E-07	458130.3	3769310.0	326.9	3.49	4.00	3.25 YES
L0011609	0	0.87890E-07	458130.1	3769318.6	327.2	3.49	4.00	3.25 YES
L0011610	0	0.87890E-07	458129.9	3769327.2	327.6	3.49	4.00	3.25 YES

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 L0011611         0   0.87890E-07  458129.6 3769335.8   328.0     3.49     4.00
3.25     YES
 L0011612         0   0.87890E-07  458129.4 3769344.4   328.3     3.49     4.00
3.25     YES
 L0011613         0   0.87890E-07  458129.2 3769353.0   328.6     3.49     4.00
3.25     YES
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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*


                                                        *** VOLUME SOURCE DATA ***

               NUMBER EMISSION RATE                    BASE    RELEASE    INIT.
INIT.   URBAN  EMISSION RATE
   SOURCE       PART.  (GRAMS/SEC)     X        Y      ELEV.   HEIGHT      SY
SZ     SOURCE  SCALAR VARY
     ID         CATS.               (METERS) (METERS) (METERS) (METERS) (METERS)
(METERS)             BY
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
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 L0011614         0   0.87890E-07  458129.1 3769361.6   328.8     3.49     4.00
3.25     YES
 L0011615         0   0.87890E-07  458130.5 3769370.0   329.0     3.49     4.00
3.25     YES
 L0011616         0   0.87890E-07  458131.8 3769378.5   329.0     3.49     4.00
3.25     YES
 L0011617         0   0.87890E-07  458133.1 3769387.0   329.0     3.49     4.00
3.25     YES
 L0011618         0   0.87890E-07  458134.5 3769395.5   329.0     3.49     4.00
3.25     YES
 L0011619         0   0.87890E-07  458135.8 3769404.0   329.0     3.49     4.00
3.25     YES
 L0011620         0   0.87890E-07  458137.2 3769412.5   329.0     3.49     4.00
3.25     YES
 L0011621         0   0.87890E-07  458138.5 3769420.9   329.0     3.49     4.00
3.25     YES
 L0011622         0   0.87890E-07  458139.0 3769429.5   329.1     3.49     4.00
3.25     YES
 L0011623         0   0.87890E-07  458139.0 3769438.1   329.4     3.49     4.00
3.25     YES
 L0011624         0   0.87890E-07  458139.0 3769446.7   329.7     3.49     4.00
3.25     YES
```

L0011625	0	0.87890E-07	458139.0	3769455.3	329.9	3.49	4.00	3.25 YES
L0011626	0	0.87890E-07	458139.0	3769463.9	331.0	3.49	4.00	3.25 YES
L0011627	0	0.87890E-07	458139.0	3769472.5	332.1	3.49	4.00	3.25 YES
L0011628	0	0.87890E-07	458139.0	3769481.0	333.2	3.49	4.00	3.25 YES
L0011629	0	0.87890E-07	458139.0	3769489.6	334.2	3.49	4.00	3.25 YES
L0011630	0	0.87890E-07	458139.0	3769498.2	335.1	3.49	4.00	3.25 YES
L0011631	0	0.87890E-07	458139.0	3769506.8	335.9	3.49	4.00	3.25 YES
L0011632	0	0.87890E-07	458139.0	3769515.4	336.8	3.49	4.00	3.25 YES
L0011633	0	0.87890E-07	458139.0	3769524.0	336.4	3.49	4.00	3.25 YES
L0011634	0	0.87890E-07	458139.0	3769532.6	335.8	3.49	4.00	3.25 YES
L0011635	0	0.87890E-07	458139.0	3769541.2	335.3	3.49	4.00	3.25 YES
L0011636	0	0.87890E-07	458139.0	3769549.8	334.9	3.49	4.00	3.25 YES
L0011637	0	0.87890E-07	458139.0	3769558.4	334.9	3.49	4.00	3.25 YES
L0011638	0	0.87890E-07	458139.0	3769566.9	335.0	3.49	4.00	3.25 YES
L0011639	0	0.87890E-07	458139.1	3769575.5	335.0	3.49	4.00	3.25 YES
L0011640	0	0.87890E-07	458139.2	3769584.1	335.0	3.49	4.00	3.25 YES
L0011641	0	0.87890E-07	458139.2	3769592.7	335.0	3.49	4.00	3.25 YES
L0011642	0	0.87890E-07	458139.3	3769601.3	335.0	3.49	4.00	3.25 YES
L0011643	0	0.87890E-07	458139.4	3769609.9	335.0	3.49	4.00	3.25 YES
L0011644	0	0.87890E-07	458139.5	3769618.5	335.0	3.49	4.00	3.25 YES
L0011645	0	0.87890E-07	458139.5	3769627.1	335.0	3.49	4.00	3.25 YES
L0011646	0	0.87890E-07	458139.6	3769635.7	335.0	3.49	4.00	3.25 YES
L0011647	0	0.87890E-07	458139.7	3769644.2	333.4	3.49	4.00	3.25 YES
L0011648	0	0.87890E-07	458139.7	3769652.8	331.7	3.49	4.00	3.25 YES

 L0011649   0   0.87890E-07 458139.8 3769661.4   330.0   3.49   4.00
3.25   YES
 L0011650   0   0.87890E-07 458139.9 3769670.0   329.7   3.49   4.00
3.25   YES
 L0011651   0   0.87890E-07 458140.0 3769678.6   331.4   3.49   4.00
3.25   YES
 L0011652   0   0.87890E-07 458140.0 3769687.2   333.2   3.49   4.00
3.25   YES
 L0011653   0   0.87890E-07 458140.1 3769695.8   334.9   3.49   4.00
3.25   YES

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                                                    *** VOLUME SOURCE DATA ***

              NUMBER EMISSION RATE   BASE   RELEASE   INIT.
INIT.   URBAN EMISSION RATE
   SOURCE   PART. (GRAMS/SEC)   X   Y   ELEV.   HEIGHT   SY
SZ   SOURCE SCALAR VARY
     ID   CATS.   (METERS) (METERS) (METERS) (METERS) (METERS)
(METERS)   BY
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- - - - - - - - - - - - - - - - - - - -

 L0011654   0   0.87890E-07 458140.2 3769704.4   335.0   3.49   4.00
3.25   YES
 L0011655   0   0.87890E-07 458140.2 3769713.0   335.0   3.49   4.00
3.25   YES
 L0011656   0   0.87890E-07 458140.3 3769721.6   335.0   3.49   4.00
3.25   YES
 L0011657   0   0.87890E-07 458140.4 3769730.1   335.0   3.49   4.00
3.25   YES
 L0011658   0   0.10820E-06 458094.3 3767593.7   308.0   3.49   4.00
3.25   YES
 L0011659   0   0.10820E-06 458085.7 3767593.5   308.0   3.49   4.00
3.25   YES
 L0011660   0   0.10820E-06 458077.1 3767593.4   308.0   3.49   4.00
3.25   YES
 L0011661   0   0.10820E-06 458068.6 3767593.2   308.0   3.49   4.00
3.25   YES
 L0011662   0   0.10820E-06 458060.0 3767593.0   308.0   3.49   4.00
3.25   YES

L0011663	0	0.10820E-06	458051.4	3767592.8	308.0	3.49	4.00	3.25 YES
L0011664	0	0.10820E-06	458042.8	3767592.7	308.0	3.49	4.00	3.25 YES
L0011665	0	0.10820E-06	458034.2	3767592.5	307.9	3.49	4.00	3.25 YES
L0011666	0	0.10820E-06	458025.6	3767592.3	307.9	3.49	4.00	3.25 YES
L0011667	0	0.10820E-06	458017.0	3767592.1	307.9	3.49	4.00	3.25 YES
L0011668	0	0.10820E-06	458008.4	3767592.0	307.9	3.49	4.00	3.25 YES
L0011669	0	0.10820E-06	457999.9	3767591.8	307.9	3.49	4.00	3.25 YES
L0011670	0	0.10820E-06	457991.3	3767591.6	307.8	3.49	4.00	3.25 YES
L0011671	0	0.10820E-06	457982.7	3767591.4	307.8	3.49	4.00	3.25 YES
L0011672	0	0.10820E-06	457974.1	3767591.3	307.8	3.49	4.00	3.25 YES
L0011673	0	0.10820E-06	457965.5	3767591.1	307.8	3.49	4.00	3.25 YES
L0011674	0	0.10820E-06	457956.9	3767590.9	307.8	3.49	4.00	3.25 YES
L0011675	0	0.10820E-06	457948.3	3767590.7	307.5	3.49	4.00	3.25 YES
L0011676	0	0.10820E-06	457939.7	3767590.6	307.3	3.49	4.00	3.25 YES
L0011677	0	0.10820E-06	457931.1	3767590.4	307.0	3.49	4.00	3.25 YES
L0011678	0	0.10820E-06	457922.6	3767590.2	307.0	3.49	4.00	3.25 YES
L0011679	0	0.10820E-06	457914.0	3767590.0	307.0	3.49	4.00	3.25 YES
L0011680	0	0.10820E-06	457905.4	3767589.9	307.0	3.49	4.00	3.25 YES
L0011681	0	0.10820E-06	457896.8	3767589.7	307.0	3.49	4.00	3.25 YES
L0011682	0	0.10820E-06	457888.2	3767589.5	307.0	3.49	4.00	3.25 YES
L0011683	0	0.10820E-06	457879.6	3767589.3	307.0	3.49	4.00	3.25 YES
L0011684	0	0.10820E-06	457871.0	3767589.2	307.0	3.49	4.00	3.25 YES
L0011685	0	0.10820E-06	457862.4	3767589.0	306.9	3.49	4.00	3.25 YES
L0011686	0	0.10820E-06	457853.9	3767588.8	306.9	3.49	4.00	3.25 YES

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 L0011687         0   0.10820E-06  457845.3 3767588.7   306.8     3.49     4.00
3.25     YES
 L0011688         0   0.10820E-06  457836.7 3767588.9   306.8     3.49     4.00
3.25     YES
 L0011689         0   0.10820E-06  457828.1 3767589.1   306.8     3.49     4.00
3.25     YES
 L0011690         0   0.10820E-06  457819.5 3767589.3   306.8     3.49     4.00
3.25     YES
 L0011691         0   0.10820E-06  457810.9 3767589.5   306.8     3.49     4.00
3.25     YES
 L0011692         0   0.10820E-06  457802.3 3767589.7   306.8     3.49     4.00
3.25     YES
 L0011693         0   0.10820E-06  457793.7 3767589.9   306.8     3.49     4.00
3.25     YES
```


*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE BY	EMISSION RATE SCALAR VARY
L0011694	0	0.10820E-06	457785.2	3767590.1	306.8	3.49	4.00	3.25	YES	
L0011695	0	0.10820E-06	457776.6	3767590.3	306.7	3.49	4.00	3.25	YES	
L0011696	0	0.10820E-06	457768.0	3767590.5	306.5	3.49	4.00	3.25	YES	
L0011697	0	0.10820E-06	457759.4	3767590.7	306.3	3.49	4.00	3.25	YES	
L0011698	0	0.10820E-06	457750.8	3767590.9	306.0	3.49	4.00	3.25	YES	
L0011699	0	0.10820E-06	457742.2	3767591.1	306.0	3.49	4.00	3.25	YES	
L0011700	0	0.10820E-06	457733.6	3767591.3	306.0	3.49	4.00	3.25	YES	

L0011701	0	0.10820E-06	457725.0	3767591.5	306.0	3.49	4.00	3.25 YES
L0011702	0	0.10820E-06	457716.5	3767591.7	306.0	3.49	4.00	3.25 YES
L0011703	0	0.10820E-06	457707.9	3767591.9	306.0	3.49	4.00	3.25 YES
L0011704	0	0.10820E-06	457699.3	3767592.0	306.0	3.49	4.00	3.25 YES
L0011705	0	0.10820E-06	457690.7	3767591.9	306.0	3.49	4.00	3.25 YES
L0011706	0	0.10820E-06	457682.1	3767591.8	306.0	3.49	4.00	3.25 YES
L0011707	0	0.10820E-06	457673.5	3767591.6	306.0	3.49	4.00	3.25 YES
L0011708	0	0.10820E-06	457664.9	3767591.5	306.0	3.49	4.00	3.25 YES
L0011709	0	0.10820E-06	457656.3	3767591.4	306.0	3.49	4.00	3.25 YES
L0011710	0	0.10820E-06	457647.7	3767591.3	306.0	3.49	4.00	3.25 YES
L0011711	0	0.10820E-06	457639.2	3767591.1	306.0	3.49	4.00	3.25 YES
L0011712	0	0.10820E-06	457630.6	3767591.0	306.0	3.49	4.00	3.25 YES
L0011713	0	0.10820E-06	457622.0	3767590.9	305.8	3.49	4.00	3.25 YES
L0011714	0	0.10820E-06	457613.4	3767590.7	305.5	3.49	4.00	3.25 YES
L0011715	0	0.10820E-06	457604.8	3767590.6	305.2	3.49	4.00	3.25 YES
L0011716	0	0.10820E-06	457596.2	3767590.5	305.0	3.49	4.00	3.25 YES
L0011717	0	0.10820E-06	457587.6	3767590.3	305.0	3.49	4.00	3.25 YES
L0011718	0	0.10820E-06	457579.0	3767590.2	305.0	3.49	4.00	3.25 YES
L0011719	0	0.10820E-06	457570.4	3767590.1	305.0	3.49	4.00	3.25 YES
L0011720	0	0.10820E-06	457561.9	3767590.0	305.0	3.49	4.00	3.25 YES
L0011721	0	0.10820E-06	457553.3	3767589.8	305.0	3.49	4.00	3.25 YES
L0011722	0	0.10820E-06	457544.7	3767589.7	305.0	3.49	4.00	3.25 YES
L0011723	0	0.10820E-06	457536.1	3767589.6	305.0	3.49	4.00	3.25 YES
L0011724	0	0.10820E-06	457527.5	3767589.4	305.0	3.49	4.00	3.25 YES

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 L0011725         0   0.10820E-06  457518.9 3767589.3   305.0     3.49     4.00
3.25     YES
 L0011726         0   0.10820E-06  457510.3 3767589.2   305.0     3.49     4.00
3.25     YES
 L0011727         0   0.10820E-06  457501.7 3767589.0   305.0     3.49     4.00
3.25     YES
 L0011728         0   0.10820E-06  457493.1 3767588.9   305.0     3.49     4.00
3.25     YES
 L0011729         0   0.10820E-06  457484.6 3767588.8   305.0     3.49     4.00
3.25     YES
 L0011730         0   0.10820E-06  457476.0 3767588.7   304.9     3.49     4.00
3.25     YES
 L0011731         0   0.10820E-06  457467.4 3767588.8   304.7     3.49     4.00
3.25     YES
 L0011732         0   0.10820E-06  457458.8 3767588.8   304.5     3.49     4.00
3.25     YES
 L0011733         0   0.10820E-06  457450.2 3767588.9   304.3     3.49     4.00
3.25     YES
```



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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*


                                                      *** VOLUME SOURCE DATA ***

               NUMBER EMISSION RATE                    BASE    RELEASE    INIT.
INIT.   URBAN  EMISSION RATE
   SOURCE       PART.  (GRAMS/SEC)     X        Y      ELEV.   HEIGHT      SY
SZ     SOURCE  SCALAR VARY
     ID         CATS.               (METERS) (METERS) (METERS) (METERS) (METERS)
(METERS)             BY
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- - - - - - - - - - - - - - - - - - - -

 L0011734         0   0.10820E-06  457441.6 3767589.0   304.2     3.49     4.00
3.25     YES
 L0011735         0   0.10820E-06  457433.0 3767589.1   304.2     3.49     4.00
3.25     YES
 L0011736         0   0.10820E-06  457424.4 3767589.2   304.2     3.49     4.00
3.25     YES
 L0011737         0   0.10820E-06  457415.8 3767589.3   304.2     3.49     4.00
3.25     YES
 L0011738         0   0.10820E-06  457407.2 3767589.4   304.2     3.49     4.00
3.25     YES
```

L0011739	0	0.10820E-06	457398.7	3767589.5	304.2	3.49	4.00	3.25 YES
L0011740	0	0.10820E-06	457390.1	3767589.5	304.2	3.49	4.00	3.25 YES
L0011741	0	0.10820E-06	457381.5	3767589.6	304.2	3.49	4.00	3.25 YES
L0011742	0	0.10820E-06	457372.9	3767589.7	304.1	3.49	4.00	3.25 YES
L0011743	0	0.10820E-06	457364.3	3767589.8	304.0	3.49	4.00	3.25 YES
L0011744	0	0.10820E-06	457355.7	3767589.9	304.0	3.49	4.00	3.25 YES
L0011745	0	0.10820E-06	457347.1	3767590.0	304.0	3.49	4.00	3.25 YES
L0011746	0	0.10820E-06	457338.5	3767590.1	304.0	3.49	4.00	3.25 YES
L0011747	0	0.10820E-06	457329.9	3767590.2	304.0	3.49	4.00	3.25 YES
L0011748	0	0.10820E-06	457321.3	3767590.2	303.7	3.49	4.00	3.25 YES
L0011749	0	0.10820E-06	457312.8	3767590.3	303.4	3.49	4.00	3.25 YES
L0011750	0	0.80170E-08	457305.1	3767602.5	303.2	3.49	4.00	3.25 YES
L0011751	0	0.80170E-08	457305.2	3767611.1	303.2	3.49	4.00	3.25 YES
L0011752	0	0.80170E-08	457305.2	3767619.7	303.2	3.49	4.00	3.25 YES
L0011753	0	0.80170E-08	457305.3	3767628.3	303.2	3.49	4.00	3.25 YES
L0011754	0	0.80170E-08	457305.3	3767636.8	303.1	3.49	4.00	3.25 YES
L0011755	0	0.80170E-08	457305.4	3767645.4	303.1	3.49	4.00	3.25 YES
L0011756	0	0.80170E-08	457305.4	3767654.0	303.0	3.49	4.00	3.25 YES
L0011757	0	0.80170E-08	457305.5	3767662.6	303.0	3.49	4.00	3.25 YES
L0011758	0	0.80170E-08	457305.5	3767671.2	303.0	3.49	4.00	3.25 YES
L0011759	0	0.80170E-08	457305.6	3767679.8	303.0	3.49	4.00	3.25 YES
L0011760	0	0.80170E-08	457305.6	3767688.4	303.0	3.49	4.00	3.25 YES
L0011761	0	0.80170E-08	457305.7	3767697.0	303.1	3.49	4.00	3.25 YES
L0011762	0	0.80170E-08	457305.7	3767705.6	303.1	3.49	4.00	3.25 YES

```
 L0011763         0   0.80170E-08  457305.8 3767714.2   303.2     3.49     4.00
3.25     YES
 L0011764         0   0.80170E-08  457305.8 3767722.7   303.2     3.49     4.00
3.25     YES
 L0011765         0   0.80170E-08  457305.9 3767731.3   303.2     3.49     4.00
3.25     YES
 L0011766         0   0.80170E-08  457306.0 3767739.9   303.2     3.49     4.00
3.25     YES
 L0011767         0   0.80170E-08  457306.0 3767748.5   303.3     3.49     4.00
3.25     YES
 L0011768         0   0.80170E-08  457306.1 3767757.1   303.5     3.49     4.00
3.25     YES
 L0011769         0   0.80170E-08  457306.1 3767765.7   303.7     3.49     4.00
3.25     YES
 L0011770         0   0.80170E-08  457306.2 3767774.3   303.9     3.49     4.00
3.25     YES
 L0011771         0   0.80170E-08  457306.2 3767782.9   304.0     3.49     4.00
3.25     YES
 L0011772         0   0.80170E-08  457306.3 3767791.5   304.0     3.49     4.00
3.25     YES
 L0011773         0   0.80170E-08  457306.3 3767800.1   304.0     3.49     4.00
3.25     YES
 *** AERMOD - VERSION  18081 ***   *** C:\LAKES\AERMOD VIEW\12979 HRA\12979
HRA.ISC                          ***        10/07/19
 *** AERMET - VERSION  16216 ***   ***
                          ***       12:30:42

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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*


                                                      *** VOLUME SOURCE DATA ***

               NUMBER EMISSION RATE                    BASE    RELEASE    INIT.
INIT.   URBAN  EMISSION RATE
   SOURCE       PART.  (GRAMS/SEC)     X        Y      ELEV.   HEIGHT      SY
SZ     SOURCE  SCALAR VARY
     ID         CATS.               (METERS) (METERS) (METERS) (METERS) (METERS)
(METERS)             BY
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - -

 L0011774         0   0.80170E-08  457306.4 3767808.6   304.0     3.49     4.00
3.25     YES
 L0011775         0   0.80170E-08  457306.4 3767817.2   304.0     3.49     4.00
3.25     YES
 L0011776         0   0.80170E-08  457306.5 3767825.8   304.0     3.49     4.00
3.25     YES
```

L0011777	0	0.80170E-08	457306.5	3767834.4	304.0	3.49	4.00	3.25 YES
L0011778	0	0.80170E-08	457306.6	3767843.0	304.0	3.49	4.00	3.25 YES
L0011779	0	0.80170E-08	457306.6	3767851.6	304.0	3.49	4.00	3.25 YES
L0011780	0	0.80170E-08	457306.7	3767860.2	304.0	3.49	4.00	3.25 YES
L0011781	0	0.80170E-08	457306.7	3767868.8	304.0	3.49	4.00	3.25 YES
L0011782	0	0.80170E-08	457306.8	3767877.4	304.0	3.49	4.00	3.25 YES
L0011783	0	0.80170E-08	457306.8	3767886.0	304.0	3.49	4.00	3.25 YES
L0011784	0	0.80170E-08	457306.9	3767894.5	304.0	3.49	4.00	3.25 YES
L0011785	0	0.80170E-08	457307.0	3767903.1	304.1	3.49	4.00	3.25 YES
L0011786	0	0.80170E-08	457307.0	3767911.7	304.1	3.49	4.00	3.25 YES
L0011787	0	0.80170E-08	457307.1	3767920.3	304.2	3.49	4.00	3.25 YES
L0011788	0	0.80170E-08	457307.1	3767928.9	304.3	3.49	4.00	3.25 YES
L0011789	0	0.80170E-08	457307.2	3767937.5	304.5	3.49	4.00	3.25 YES
L0011790	0	0.80170E-08	457307.2	3767946.1	304.8	3.49	4.00	3.25 YES
L0011791	0	0.80170E-08	457307.3	3767954.7	305.0	3.49	4.00	3.25 YES
L0011792	0	0.80170E-08	457307.3	3767963.3	305.0	3.49	4.00	3.25 YES
L0011793	0	0.80170E-08	457307.4	3767971.9	305.0	3.49	4.00	3.25 YES
L0011794	0	0.80170E-08	457307.4	3767980.4	305.0	3.49	4.00	3.25 YES
L0011795	0	0.80170E-08	457307.5	3767989.0	305.0	3.49	4.00	3.25 YES
L0011796	0	0.80170E-08	457307.5	3767997.6	305.1	3.49	4.00	3.25 YES
L0011797	0	0.80170E-08	457307.6	3768006.2	305.2	3.49	4.00	3.25 YES
L0011798	0	0.80170E-08	457307.6	3768014.8	305.2	3.49	4.00	3.25 YES
L0011799	0	0.80170E-08	457307.7	3768023.4	305.4	3.49	4.00	3.25 YES
L0011800	0	0.80170E-08	457307.7	3768032.0	305.7	3.49	4.00	3.25 YES

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 L0011801         0   0.80170E-08  457307.8 3768040.6   305.9     3.49     4.00
3.25     YES
 L0011802         0   0.80170E-08  457307.8 3768049.2   306.0     3.49     4.00
3.25     YES
 L0011803         0   0.80170E-08  457307.9 3768057.7   306.0     3.49     4.00
3.25     YES
 L0011804         0   0.80170E-08  457307.9 3768066.3   306.0     3.49     4.00
3.25     YES
 L0011805         0   0.80170E-08  457308.0 3768074.9   306.0     3.49     4.00
3.25     YES
 L0011806         0   0.80170E-08  457308.1 3768083.5   306.1     3.49     4.00
3.25     YES
 L0011807         0   0.80170E-08  457308.1 3768092.1   306.2     3.49     4.00
3.25     YES
 L0011808         0   0.80170E-08  457308.2 3768100.7   306.2     3.49     4.00
3.25     YES
 L0011809         0   0.80170E-08  457308.2 3768109.3   306.4     3.49     4.00
3.25     YES
 L0011810         0   0.80170E-08  457308.3 3768117.9   306.6     3.49     4.00
3.25     YES
 L0011811         0   0.80170E-08  457308.3 3768126.5   306.8     3.49     4.00
3.25     YES
 L0011812         0   0.80170E-08  457308.4 3768135.1   307.0     3.49     4.00
3.25     YES
 L0011813         0   0.80170E-08  457308.4 3768143.6   307.0     3.49     4.00
3.25     YES
 *** AERMOD - VERSION  18081 ***   *** C:\LAKES\AERMOD VIEW\12979 HRA\12979
HRA.ISC                          ***        10/07/19
 *** AERMET - VERSION  16216 ***   ***
                         ***       12:30:42

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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*


                                                    *** VOLUME SOURCE DATA ***

               NUMBER EMISSION RATE                    BASE    RELEASE    INIT.
INIT.   URBAN  EMISSION RATE
   SOURCE       PART.  (GRAMS/SEC)     X        Y      ELEV.   HEIGHT      SY
SZ     SOURCE  SCALAR VARY
     ID         CATS.               (METERS) (METERS) (METERS) (METERS) (METERS)
(METERS)             BY
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - -

 L0011814         0   0.80170E-08  457308.5 3768152.2   307.0     3.49     4.00
3.25     YES
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L0011815	0	0.80170E-08	457308.5	3768160.8	307.0	3.49	4.00	3.25 YES
L0011816	0	0.80170E-08	457308.6	3768169.4	307.1	3.49	4.00	3.25 YES
L0011817	0	0.80170E-08	457308.6	3768178.0	307.4	3.49	4.00	3.25 YES
L0011818	0	0.80170E-08	457308.7	3768186.6	307.7	3.49	4.00	3.25 YES
L0011819	0	0.80170E-08	457308.7	3768195.2	308.0	3.49	4.00	3.25 YES
L0011820	0	0.80170E-08	457308.8	3768203.8	308.0	3.49	4.00	3.25 YES
L0011821	0	0.80170E-08	457308.8	3768212.4	308.0	3.49	4.00	3.25 YES
L0011822	0	0.80170E-08	457308.9	3768221.0	308.0	3.49	4.00	3.25 YES
L0011823	0	0.80170E-08	457308.9	3768229.5	308.0	3.49	4.00	3.25 YES
L0011824	0	0.80170E-08	457309.0	3768238.1	308.0	3.49	4.00	3.25 YES
L0011825	0	0.80170E-08	457309.0	3768246.7	308.0	3.49	4.00	3.25 YES
L0011826	0	0.80170E-08	457309.1	3768255.3	308.0	3.49	4.00	3.25 YES
L0011827	0	0.80170E-08	457309.2	3768263.9	308.2	3.49	4.00	3.25 YES
L0011828	0	0.80170E-08	457309.2	3768272.5	308.5	3.49	4.00	3.25 YES
L0011829	0	0.80170E-08	457309.3	3768281.1	308.8	3.49	4.00	3.25 YES
L0011830	0	0.80170E-08	457309.3	3768289.7	309.0	3.49	4.00	3.25 YES
L0011831	0	0.80170E-08	457309.4	3768298.3	309.0	3.49	4.00	3.25 YES
L0011832	0	0.80170E-08	457309.4	3768306.9	309.0	3.49	4.00	3.25 YES
L0011833	0	0.80170E-08	457309.5	3768315.4	309.0	3.49	4.00	3.25 YES
L0011834	0	0.80170E-08	457309.5	3768324.0	309.0	3.49	4.00	3.25 YES
L0011835	0	0.80170E-08	457309.6	3768332.6	309.0	3.49	4.00	3.25 YES
L0011836	0	0.80170E-08	457309.6	3768341.2	309.0	3.49	4.00	3.25 YES
L0011837	0	0.80170E-08	457309.7	3768349.8	309.0	3.49	4.00	3.25 YES
L0011838	0	0.80170E-08	457309.7	3768358.4	309.1	3.49	4.00	3.25 YES

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 L0011839         0   0.80170E-08  457309.8 3768367.0   309.2     3.49     4.00
3.25     YES
 L0011840         0   0.80170E-08  457309.8 3768375.6   309.3     3.49     4.00
3.25     YES
 L0011841         0   0.80170E-08  457309.9 3768384.2   309.5     3.49     4.00
3.25     YES
 L0011842         0   0.80170E-08  457309.9 3768392.8   309.7     3.49     4.00
3.25     YES
 L0011843         0   0.80170E-08  457310.0 3768401.3   309.9     3.49     4.00
3.25     YES
 L0011844         0   0.80170E-08  457310.0 3768409.9   310.0     3.49     4.00
3.25     YES
 L0011845         0   0.80170E-08  457310.1 3768418.5   310.0     3.49     4.00
3.25     YES
 L0011846         0   0.99730E-07  456511.9 3767588.7   295.8     3.49     4.00
3.25     YES
 L0011847         0   0.99730E-07  456520.5 3767588.6   295.8     3.49     4.00
3.25     YES
 L0011848         0   0.99730E-07  456529.1 3767588.5   295.8     3.49     4.00
3.25     YES
 L0011849         0   0.99730E-07  456537.7 3767588.5   295.9     3.49     4.00
3.25     YES
 L0011850         0   0.99730E-07  456546.3 3767588.4   296.0     3.49     4.00
3.25     YES
 L0011851         0   0.99730E-07  456554.9 3767588.3   296.0     3.49     4.00
3.25     YES
 L0011852         0   0.99730E-07  456563.5 3767588.2   296.0     3.49     4.00
3.25     YES
 L0011853         0   0.99730E-07  456572.1 3767588.1   296.0     3.49     4.00
3.25     YES
 *** AERMOD - VERSION  18081 ***   *** C:\LAKES\AERMOD VIEW\12979 HRA\12979
HRA.ISC                          ***        10/07/19
 *** AERMET - VERSION  16216 ***   ***
                       ***        12:30:42

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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*


                                                      *** VOLUME SOURCE DATA ***

              NUMBER EMISSION RATE                    BASE    RELEASE    INIT.
INIT.   URBAN  EMISSION RATE
   SOURCE       PART.  (GRAMS/SEC)     X        Y      ELEV.   HEIGHT      SY
SZ     SOURCE  SCALAR VARY
     ID         CATS.               (METERS) (METERS) (METERS) (METERS) (METERS)
(METERS)             BY
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
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L0011854	0	0.99730E-07	456580.7	3767588.0	296.0	3.49	4.00	3.25 YES
L0011855	0	0.99730E-07	456589.2	3767587.9	296.2	3.49	4.00	3.25 YES
L0011856	0	0.99730E-07	456597.8	3767587.8	296.4	3.49	4.00	3.25 YES
L0011857	0	0.99730E-07	456606.4	3767587.7	296.6	3.49	4.00	3.25 YES
L0011858	0	0.99730E-07	456615.0	3767587.6	296.7	3.49	4.00	3.25 YES
L0011859	0	0.99730E-07	456623.6	3767587.5	296.7	3.49	4.00	3.25 YES
L0011860	0	0.99730E-07	456632.2	3767587.4	296.7	3.49	4.00	3.25 YES
L0011861	0	0.99730E-07	456640.8	3767587.3	296.7	3.49	4.00	3.25 YES
L0011862	0	0.99730E-07	456649.4	3767587.2	296.8	3.49	4.00	3.25 YES
L0011863	0	0.99730E-07	456658.0	3767587.1	296.9	3.49	4.00	3.25 YES
L0011864	0	0.99730E-07	456666.5	3767587.0	297.0	3.49	4.00	3.25 YES
L0011865	0	0.99730E-07	456675.1	3767586.9	297.0	3.49	4.00	3.25 YES
L0011866	0	0.99730E-07	456683.7	3767586.8	297.0	3.49	4.00	3.25 YES
L0011867	0	0.99730E-07	456692.3	3767586.8	297.0	3.49	4.00	3.25 YES
L0011868	0	0.99730E-07	456700.9	3767586.7	297.0	3.49	4.00	3.25 YES
L0011869	0	0.99730E-07	456709.5	3767586.6	297.0	3.49	4.00	3.25 YES
L0011870	0	0.99730E-07	456718.1	3767586.5	297.0	3.49	4.00	3.25 YES
L0011871	0	0.99730E-07	456726.7	3767586.4	297.0	3.49	4.00	3.25 YES
L0011872	0	0.99730E-07	456735.3	3767586.3	297.1	3.49	4.00	3.25 YES
L0011873	0	0.99730E-07	456743.9	3767586.2	297.3	3.49	4.00	3.25 YES
L0011874	0	0.99730E-07	456752.4	3767586.1	297.5	3.49	4.00	3.25 YES
L0011875	0	0.99730E-07	456761.0	3767586.0	297.7	3.49	4.00	3.25 YES
L0011876	0	0.99730E-07	456769.6	3767585.9	297.8	3.49	4.00	3.25 YES

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 L0011877         0   0.99730E-07  456778.2 3767585.8   297.9     3.49     4.00
3.25     YES
 L0011878         0   0.99730E-07  456786.8 3767585.7   298.0     3.49     4.00
3.25     YES
 L0011879         0   0.99730E-07  456795.4 3767585.6   298.0     3.49     4.00
3.25     YES
 L0011880         0   0.99730E-07  456804.0 3767585.5   298.0     3.49     4.00
3.25     YES
 L0011881         0   0.99730E-07  456812.6 3767585.4   298.0     3.49     4.00
3.25     YES
 L0011882         0   0.99730E-07  456821.2 3767585.4   298.0     3.49     4.00
3.25     YES
 L0011883         0   0.99730E-07  456829.7 3767585.3   298.0     3.49     4.00
3.25     YES
 L0011884         0   0.99730E-07  456838.3 3767585.2   298.0     3.49     4.00
3.25     YES
 L0011885         0   0.99730E-07  456846.9 3767585.1   298.0     3.49     4.00
3.25     YES
 L0011886         0   0.99730E-07  456855.5 3767585.0   298.0     3.49     4.00
3.25     YES
 L0011887         0   0.99730E-07  456864.1 3767584.9   298.0     3.49     4.00
3.25     YES
 L0011888         0   0.99730E-07  456872.7 3767584.8   298.0     3.49     4.00
3.25     YES
 L0011889         0   0.99730E-07  456881.3 3767584.7   298.0     3.49     4.00
3.25     YES
 L0011890         0   0.99730E-07  456889.9 3767584.6   298.2     3.49     4.00
3.25     YES
 L0011891         0   0.99730E-07  456898.5 3767584.5   298.4     3.49     4.00
3.25     YES
 L0011892         0   0.99730E-07  456907.1 3767584.7   298.6     3.49     4.00
3.25     YES
 L0011893         0   0.99730E-07  456915.6 3767585.0   298.6     3.49     4.00
3.25     YES
↑ *** AERMOD - VERSION  18081 ***   *** C:\LAKES\AERMOD VIEW\12979 HRA\12979
HRA.ISC                         ***        10/07/19
 *** AERMET - VERSION  16216 ***   ***
                          ***        12:30:42

                                   PAGE  48
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*


                                                    *** VOLUME SOURCE DATA ***

               NUMBER EMISSION RATE                      BASE    RELEASE    INIT.
INIT.   URBAN  EMISSION RATE
   SOURCE       PART.  (GRAMS/SEC)     X         Y      ELEV.   HEIGHT      SY
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SZ (METERS)	SOURCE ID	SCALAR CATS.	VARY BY	(METERS)	(METERS)	(METERS)	(METERS)	(METERS)	(METERS)
	L0011894	0	0.99730E-07	456924.2	3767585.2	298.6	3.49	4.00	3.25 YES
	L0011895	0	0.99730E-07	456932.8	3767585.4	298.6	3.49	4.00	3.25 YES
	L0011896	0	0.99730E-07	456941.4	3767585.6	298.7	3.49	4.00	3.25 YES
	L0011897	0	0.99730E-07	456950.0	3767585.8	298.8	3.49	4.00	3.25 YES
	L0011898	0	0.99730E-07	456958.6	3767586.0	298.9	3.49	4.00	3.25 YES
	L0011899	0	0.99730E-07	456967.2	3767586.2	299.0	3.49	4.00	3.25 YES
	L0011900	0	0.99730E-07	456975.8	3767586.4	299.0	3.49	4.00	3.25 YES
	L0011901	0	0.99730E-07	456984.3	3767586.6	299.0	3.49	4.00	3.25 YES
	L0011902	0	0.99730E-07	456992.9	3767586.8	299.0	3.49	4.00	3.25 YES
	L0011903	0	0.99730E-07	457001.5	3767587.1	299.0	3.49	4.00	3.25 YES
	L0011904	0	0.99730E-07	457010.1	3767587.3	299.0	3.49	4.00	3.25 YES
	L0011905	0	0.99730E-07	457018.7	3767587.5	299.0	3.49	4.00	3.25 YES
	L0011906	0	0.99730E-07	457027.3	3767587.7	299.0	3.49	4.00	3.25 YES
	L0011907	0	0.99730E-07	457035.9	3767587.9	299.2	3.49	4.00	3.25 YES
	L0011908	0	0.99730E-07	457044.5	3767588.1	299.5	3.49	4.00	3.25 YES
	L0011909	0	0.99730E-07	457053.0	3767588.3	299.8	3.49	4.00	3.25 YES
	L0011910	0	0.99730E-07	457061.6	3767588.5	300.1	3.49	4.00	3.25 YES
	L0011911	0	0.99730E-07	457070.2	3767588.7	300.4	3.49	4.00	3.25 YES
	L0011912	0	0.99730E-07	457078.8	3767588.8	300.6	3.49	4.00	3.25 YES
	L0011913	0	0.99730E-07	457087.4	3767588.9	300.9	3.49	4.00	3.25 YES
	L0011914	0	0.99730E-07	457096.0	3767589.0	301.1	3.49	4.00	3.25 YES

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 L0011915         0   0.99730E-07  457104.6 3767589.1   301.1     3.49     4.00
3.25     YES
 L0011916         0   0.99730E-07  457113.2 3767589.2   301.2     3.49     4.00
3.25     YES
 L0011917         0   0.99730E-07  457121.8 3767589.3   301.3     3.49     4.00
3.25     YES
 L0011918         0   0.99730E-07  457130.3 3767589.3   301.6     3.49     4.00
3.25     YES
 L0011919         0   0.99730E-07  457138.9 3767589.4   301.9     3.49     4.00
3.25     YES
 L0011920         0   0.99730E-07  457147.5 3767589.5   302.2     3.49     4.00
3.25     YES
 L0011921         0   0.99730E-07  457156.1 3767589.6   302.4     3.49     4.00
3.25     YES
 L0011922         0   0.99730E-07  457164.7 3767589.7   302.6     3.49     4.00
3.25     YES
 L0011923         0   0.99730E-07  457173.3 3767589.8   302.8     3.49     4.00
3.25     YES
 L0011924         0   0.99730E-07  457181.9 3767589.8   303.0     3.49     4.00
3.25     YES
 L0011925         0   0.99730E-07  457190.5 3767589.9   303.0     3.49     4.00
3.25     YES
 L0011926         0   0.99730E-07  457199.1 3767590.0   303.0     3.49     4.00
3.25     YES
 L0011927         0   0.99730E-07  457207.6 3767590.1   303.0     3.49     4.00
3.25     YES
 L0011928         0   0.99730E-07  457216.2 3767590.2   303.0     3.49     4.00
3.25     YES
 L0011929         0   0.99730E-07  457224.8 3767590.2   303.0     3.49     4.00
3.25     YES
 L0011930         0   0.99730E-07  457233.4 3767590.3   303.0     3.49     4.00
3.25     YES
 L0011931         0   0.99730E-07  457242.0 3767590.4   303.0     3.49     4.00
3.25     YES
 L0011932         0   0.99730E-07  457250.6 3767590.5   303.1     3.49     4.00
3.25     YES
 L0011933         0   0.99730E-07  457259.2 3767590.6   303.1     3.49     4.00
3.25     YES
 *** AERMOD - VERSION  18081 ***   *** C:\LAKES\AERMOD VIEW\12979 HRA\12979
HRA.ISC                         ***        10/07/19
 *** AERMET - VERSION  16216 ***   ***
                          ***        12:30:42

                                    PAGE  49
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*


                                                    *** VOLUME SOURCE DATA ***
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SOURCE ID	NUMBER PART. SCALAR CATS.	EMISSION RATE (GRAMS/SEC) VARY BY	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ	URBAN SOURCE
L0011934	0	0.99730E-07	457267.8	3767590.7	303.2	3.49	4.00	3.25	YES
L0011935	0	0.99730E-07	457276.4	3767590.7	303.1	3.49	4.00	3.25	YES
L0011936	0	0.99730E-07	457285.0	3767590.8	303.1	3.49	4.00	3.25	YES
L0011937	0	0.99730E-07	457293.5	3767590.9	303.0	3.49	4.00	3.25	YES
L0011938	0	0.40020E-08	456511.5	3767608.8	296.0	3.49	4.00	3.25	YES
L0011939	0	0.40020E-08	456510.7	3767617.4	296.0	3.49	4.00	3.25	YES
L0011940	0	0.40020E-08	456510.0	3767625.9	296.0	3.49	4.00	3.25	YES
L0011941	0	0.40020E-08	456509.2	3767634.5	296.3	3.49	4.00	3.25	YES
L0011942	0	0.40020E-08	456508.5	3767643.0	296.6	3.49	4.00	3.25	YES
L0011943	0	0.40020E-08	456507.7	3767651.6	296.8	3.49	4.00	3.25	YES
L0011944	0	0.40020E-08	456506.9	3767660.2	297.0	3.49	4.00	3.25	YES
L0011945	0	0.40020E-08	456506.2	3767668.7	297.0	3.49	4.00	3.25	YES
L0011946	0	0.40020E-08	456505.4	3767677.3	297.0	3.49	4.00	3.25	YES
L0011947	0	0.40020E-08	456504.7	3767685.8	297.0	3.49	4.00	3.25	YES
L0011948	0	0.40020E-08	456503.9	3767694.4	297.0	3.49	4.00	3.25	YES
L0011949	0	0.40020E-08	456503.2	3767702.9	297.0	3.49	4.00	3.25	YES
L0011950	0	0.40020E-08	456502.4	3767711.5	297.0	3.49	4.00	3.25	YES
L0011951	0	0.40020E-08	456501.7	3767720.1	297.1	3.49	4.00	3.25	YES
L0011952	0	0.40020E-08	456500.9	3767728.6	297.2	3.49	4.00	3.25	YES

L0011953	0	0.40020E-08	456500.2	3767737.2	297.4	3.49	4.00	3.25 YES
L0011954	0	0.40020E-08	456499.4	3767745.7	297.7	3.49	4.00	3.25 YES
L0011955	0	0.40020E-08	456498.9	3767754.3	297.8	3.49	4.00	3.25 YES
L0011956	0	0.40020E-08	456498.7	3767762.9	297.9	3.49	4.00	3.25 YES
L0011957	0	0.40020E-08	456498.5	3767771.5	297.9	3.49	4.00	3.25 YES
L0011958	0	0.40020E-08	456498.4	3767780.1	298.0	3.49	4.00	3.25 YES
L0011959	0	0.40020E-08	456498.2	3767788.6	298.0	3.49	4.00	3.25 YES
L0011960	0	0.40020E-08	456498.0	3767797.2	298.0	3.49	4.00	3.25 YES
L0011961	0	0.40020E-08	456497.8	3767805.8	298.0	3.49	4.00	3.25 YES
L0011962	0	0.40020E-08	456497.7	3767814.4	298.0	3.49	4.00	3.25 YES
L0011963	0	0.40020E-08	456497.5	3767823.0	298.0	3.49	4.00	3.25 YES
L0011964	0	0.40020E-08	456497.4	3767831.6	298.0	3.49	4.00	3.25 YES
L0011965	0	0.40020E-08	456497.8	3767840.2	298.1	3.49	4.00	3.25 YES
L0011966	0	0.40020E-08	456498.2	3767848.7	298.4	3.49	4.00	3.25 YES
L0011967	0	0.40020E-08	456498.6	3767857.3	298.7	3.49	4.00	3.25 YES
L0011968	0	0.40020E-08	456499.0	3767865.9	299.0	3.49	4.00	3.25 YES
L0011969	0	0.40020E-08	456499.4	3767874.5	299.0	3.49	4.00	3.25 YES
L0011970	0	0.40020E-08	456499.8	3767883.1	299.0	3.49	4.00	3.25 YES
L0011971	0	0.40020E-08	456500.2	3767891.6	299.0	3.49	4.00	3.25 YES
L0011972	0	0.40020E-08	456500.6	3767900.2	299.1	3.49	4.00	3.25 YES
L0011973	0	0.40020E-08	456501.0	3767908.8	299.4	3.49	4.00	3.25 YES

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE VARY BY
L0011974	0	0.40020E-08	456501.5	3767917.4	299.7	3.49	4.00	3.25	YES	
L0011975	0	0.40020E-08	456501.9	3767926.0	300.0	3.49	4.00	3.25	YES	
L0011976	0	0.40020E-08	456502.3	3767934.5	300.0	3.49	4.00	3.25	YES	
L0011977	0	0.40020E-08	456502.7	3767943.1	300.0	3.49	4.00	3.25	YES	
L0011978	0	0.40020E-08	456503.1	3767951.7	300.0	3.49	4.00	3.25	YES	
L0011979	0	0.40020E-08	456503.5	3767960.3	300.1	3.49	4.00	3.25	YES	
L0011980	0	0.40020E-08	456503.9	3767968.9	300.4	3.49	4.00	3.25	YES	
L0011981	0	0.40020E-08	456504.3	3767977.4	300.7	3.49	4.00	3.25	YES	
L0011982	0	0.40020E-08	456504.7	3767986.0	301.0	3.49	4.00	3.25	YES	
L0011983	0	0.40020E-08	456504.7	3767994.6	300.7	3.49	4.00	3.25	YES	
L0011984	0	0.40020E-08	456504.7	3768003.2	300.4	3.49	4.00	3.25	YES	
L0011985	0	0.40020E-08	456504.6	3768011.8	300.2	3.49	4.00	3.25	YES	
L0011986	0	0.40020E-08	456504.6	3768020.4	299.9	3.49	4.00	3.25	YES	
L0011987	0	0.40020E-08	456504.6	3768029.0	299.8	3.49	4.00	3.25	YES	
L0011988	0	0.40020E-08	456504.6	3768037.6	299.7	3.49	4.00	3.25	YES	
L0011989	0	0.40020E-08	456504.5	3768046.2	299.5	3.49	4.00	3.25	YES	
L0011990	0	0.40020E-08	456504.5	3768054.8	299.5	3.49	4.00	3.25	YES	

L0011991	0	0.40020E-08	456504.5	3768063.3	299.5	3.49	4.00	3.25 YES
L0011992	0	0.40020E-08	456504.4	3768071.9	299.5	3.49	4.00	3.25 YES
L0011993	0	0.40020E-08	456504.4	3768080.5	299.5	3.49	4.00	3.25 YES
L0011994	0	0.40020E-08	456504.4	3768089.1	299.5	3.49	4.00	3.25 YES
L0011995	0	0.40020E-08	456504.4	3768097.7	299.5	3.49	4.00	3.25 YES
L0011996	0	0.40020E-08	456504.3	3768106.3	299.5	3.49	4.00	3.25 YES
L0011997	0	0.40020E-08	456504.3	3768114.9	299.5	3.49	4.00	3.25 YES
L0011998	0	0.40020E-08	456504.3	3768123.5	299.5	3.49	4.00	3.25 YES
L0011999	0	0.40020E-08	456504.2	3768132.1	299.5	3.49	4.00	3.25 YES
L0012000	0	0.40020E-08	456504.2	3768140.6	299.6	3.49	4.00	3.25 YES
L0012001	0	0.40020E-08	456504.2	3768149.2	299.7	3.49	4.00	3.25 YES
L0012002	0	0.40020E-08	456504.2	3768157.8	299.8	3.49	4.00	3.25 YES
L0012003	0	0.40020E-08	456504.1	3768166.4	300.0	3.49	4.00	3.25 YES
L0012004	0	0.40020E-08	456504.1	3768175.0	300.3	3.49	4.00	3.25 YES
L0012005	0	0.40020E-08	456504.1	3768183.6	300.5	3.49	4.00	3.25 YES
L0012006	0	0.40020E-08	456504.0	3768192.2	300.8	3.49	4.00	3.25 YES
L0012007	0	0.40020E-08	456504.0	3768200.8	301.4	3.49	4.00	3.25 YES
L0012008	0	0.40020E-08	456504.1	3768209.4	302.3	3.49	4.00	3.25 YES
L0012009	0	0.40020E-08	456504.2	3768218.0	303.2	3.49	4.00	3.25 YES
L0012010	0	0.40020E-08	456504.3	3768226.5	304.0	3.49	4.00	3.25 YES
L0012011	0	0.40020E-08	456504.4	3768235.1	304.3	3.49	4.00	3.25 YES
L0012012	0	0.40020E-08	456504.5	3768243.7	304.6	3.49	4.00	3.25 YES
L0012013	0	0.40020E-08	456504.5	3768252.3	304.9	3.49	4.00	3.25 YES

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER EMISSION RATE PART. SCALAR VARY BY	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE
L0012014	0	0.40020E-08	456504.6	3768260.9	305.0	3.49	4.00	3.25	YES
L0012015	0	0.40020E-08	456504.7	3768269.5	305.0	3.49	4.00	3.25	YES
L0012016	0	0.40020E-08	456504.8	3768278.1	305.0	3.49	4.00	3.25	YES
L0012017	0	0.40020E-08	456504.9	3768286.7	305.0	3.49	4.00	3.25	YES
L0012018	0	0.40020E-08	456504.9	3768295.3	305.0	3.49	4.00	3.25	YES
L0012019	0	0.40020E-08	456505.0	3768303.9	305.0	3.49	4.00	3.25	YES
L0012020	0	0.40020E-08	456505.1	3768312.4	305.0	3.49	4.00	3.25	YES
L0012021	0	0.40020E-08	456505.2	3768321.0	305.2	3.49	4.00	3.25	YES
L0012022	0	0.40020E-08	456505.3	3768329.6	305.4	3.49	4.00	3.25	YES
L0012023	0	0.40020E-08	456505.4	3768338.2	305.7	3.49	4.00	3.25	YES
L0012024	0	0.40020E-08	456505.4	3768346.8	306.0	3.49	4.00	3.25	YES
L0012025	0	0.40020E-08	456505.5	3768355.4	306.0	3.49	4.00	3.25	YES
L0012026	0	0.40020E-08	456505.6	3768364.0	306.0	3.49	4.00	3.25	YES
L0012027	0	0.40020E-08	456505.7	3768372.6	306.0	3.49	4.00	3.25	YES
L0012028	0	0.40020E-08	456505.8	3768381.2	306.0	3.49	4.00	3.25	YES

L0012029	0	0.40020E-08	456505.9	3768389.8	306.0	3.49	4.00	3.25 YES
L0012030	0	0.40020E-08	456505.9	3768398.3	306.0	3.49	4.00	3.25 YES
L0012031	0	0.40020E-08	456506.0	3768406.9	306.0	3.49	4.00	3.25 YES
L0012032	0	0.96290E-07	454434.5	3767600.8	283.1	3.49	4.00	3.25 YES
L0012033	0	0.96290E-07	454443.1	3767600.7	283.0	3.49	4.00	3.25 YES
L0012034	0	0.96290E-07	454451.7	3767600.6	283.1	3.49	4.00	3.25 YES
L0012035	0	0.96290E-07	454460.2	3767600.6	283.4	3.49	4.00	3.25 YES
L0012036	0	0.96290E-07	454468.8	3767600.5	283.6	3.49	4.00	3.25 YES
L0012037	0	0.96290E-07	454477.4	3767600.4	283.9	3.49	4.00	3.25 YES
L0012038	0	0.96290E-07	454486.0	3767600.3	284.0	3.49	4.00	3.25 YES
L0012039	0	0.96290E-07	454494.6	3767600.3	284.0	3.49	4.00	3.25 YES
L0012040	0	0.96290E-07	454503.2	3767600.2	284.0	3.49	4.00	3.25 YES
L0012041	0	0.96290E-07	454511.8	3767600.1	284.0	3.49	4.00	3.25 YES
L0012042	0	0.96290E-07	454520.4	3767600.0	284.0	3.49	4.00	3.25 YES
L0012043	0	0.96290E-07	454529.0	3767600.0	284.0	3.49	4.00	3.25 YES
L0012044	0	0.96290E-07	454537.5	3767599.9	284.0	3.49	4.00	3.25 YES
L0012045	0	0.96290E-07	454546.1	3767599.8	284.0	3.49	4.00	3.25 YES
L0012046	0	0.96290E-07	454554.7	3767599.7	284.0	3.49	4.00	3.25 YES
L0012047	0	0.96290E-07	454563.3	3767599.7	284.0	3.49	4.00	3.25 YES
L0012048	0	0.96290E-07	454571.9	3767599.6	284.0	3.49	4.00	3.25 YES
L0012049	0	0.96290E-07	454580.5	3767599.5	284.0	3.49	4.00	3.25 YES
L0012050	0	0.96290E-07	454589.1	3767599.4	284.1	3.49	4.00	3.25 YES
L0012051	0	0.96290E-07	454597.7	3767599.4	284.1	3.49	4.00	3.25 YES
L0012052	0	0.96290E-07	454606.3	3767599.3	284.1	3.49	4.00	3.25 YES

 L0012053   0   0.96290E-07 454614.9 3767599.2   284.1   3.49   4.00
3.25   YES

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                                                  *** VOLUME SOURCE DATA ***

               NUMBER EMISSION RATE   BASE   RELEASE   INIT.
INIT.   URBAN EMISSION RATE
   SOURCE   PART. (GRAMS/SEC)   X   Y   ELEV.   HEIGHT   SY
SZ   SOURCE SCALAR VARY
     ID   CATS.   (METERS) (METERS) (METERS) (METERS) (METERS)
(METERS)   BY
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 L0012054   0   0.96290E-07 454623.4 3767599.1   284.1   3.49   4.00
3.25   YES
 L0012055   0   0.96290E-07 454632.0 3767599.1   284.1   3.49   4.00
3.25   YES
 L0012056   0   0.96290E-07 454640.6 3767599.0   284.1   3.49   4.00
3.25   YES
 L0012057   0   0.96290E-07 454649.2 3767598.9   284.1   3.49   4.00
3.25   YES
 L0012058   0   0.96290E-07 454657.8 3767598.8   284.1   3.49   4.00
3.25   YES
 L0012059   0   0.96290E-07 454666.4 3767598.8   284.3   3.49   4.00
3.25   YES
 L0012060   0   0.96290E-07 454675.0 3767598.7   284.6   3.49   4.00
3.25   YES
 L0012061   0   0.96290E-07 454683.6 3767598.6   284.8   3.49   4.00
3.25   YES
 L0012062   0   0.96290E-07 454692.2 3767598.5   285.0   3.49   4.00
3.25   YES
 L0012063   0   0.96290E-07 454700.8 3767598.5   285.0   3.49   4.00
3.25   YES
 L0012064   0   0.96290E-07 454709.3 3767598.4   285.0   3.49   4.00
3.25   YES
 L0012065   0   0.96290E-07 454717.9 3767598.3   285.0   3.49   4.00
3.25   YES
 L0012066   0   0.96290E-07 454726.5 3767598.2   285.0   3.49   4.00
3.25   YES

L0012067	0	0.96290E-07	454735.1	3767598.2	285.0	3.49	4.00	3.25 YES
L0012068	0	0.96290E-07	454743.7	3767598.1	285.0	3.49	4.00	3.25 YES
L0012069	0	0.96290E-07	454752.3	3767598.0	285.0	3.49	4.00	3.25 YES
L0012070	0	0.96290E-07	454760.9	3767597.9	285.0	3.49	4.00	3.25 YES
L0012071	0	0.96290E-07	454769.5	3767597.9	285.0	3.49	4.00	3.25 YES
L0012072	0	0.96290E-07	454778.1	3767597.8	285.1	3.49	4.00	3.25 YES
L0012073	0	0.96290E-07	454786.6	3767597.5	285.0	3.49	4.00	3.25 YES
L0012074	0	0.96290E-07	454795.2	3767597.2	285.0	3.49	4.00	3.25 YES
L0012075	0	0.96290E-07	454803.8	3767596.8	285.0	3.49	4.00	3.25 YES
L0012076	0	0.96290E-07	454812.4	3767596.4	285.1	3.49	4.00	3.25 YES
L0012077	0	0.96290E-07	454821.0	3767596.1	285.4	3.49	4.00	3.25 YES
L0012078	0	0.96290E-07	454829.6	3767595.7	285.7	3.49	4.00	3.25 YES
L0012079	0	0.96290E-07	454838.1	3767595.3	285.9	3.49	4.00	3.25 YES
L0012080	0	0.96290E-07	454846.7	3767594.9	285.9	3.49	4.00	3.25 YES
L0012081	0	0.96290E-07	454855.3	3767594.6	285.9	3.49	4.00	3.25 YES
L0012082	0	0.96290E-07	454863.9	3767594.2	285.9	3.49	4.00	3.25 YES
L0012083	0	0.96290E-07	454872.5	3767593.8	285.9	3.49	4.00	3.25 YES
L0012084	0	0.96290E-07	454881.0	3767593.4	285.9	3.49	4.00	3.25 YES
L0012085	0	0.96290E-07	454889.6	3767593.1	286.0	3.49	4.00	3.25 YES
L0012086	0	0.96290E-07	454898.2	3767592.7	286.0	3.49	4.00	3.25 YES
L0012087	0	0.96290E-07	454906.8	3767592.3	286.0	3.49	4.00	3.25 YES
L0012088	0	0.96290E-07	454915.4	3767592.0	286.0	3.49	4.00	3.25 YES
L0012089	0	0.96290E-07	454924.0	3767591.6	286.0	3.49	4.00	3.25 YES
L0012090	0	0.96290E-07	454932.5	3767591.2	286.1	3.49	4.00	3.25 YES

 L0012091   0   0.96290E-07 454941.1 3767590.8   286.3   3.49   4.00
3.25   YES
 L0012092   0   0.96290E-07 454949.7 3767590.5   286.5   3.49   4.00
3.25   YES
 L0012093   0   0.96290E-07 454958.3 3767590.1   286.8   3.49   4.00
3.25   YES

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                                                    *** VOLUME SOURCE DATA ***

               NUMBER EMISSION RATE   BASE   RELEASE   INIT.
INIT.   URBAN EMISSION RATE
   SOURCE   PART. (GRAMS/SEC)   X   Y   ELEV.   HEIGHT   SY
SZ   SOURCE SCALAR VARY
     ID   CATS.   (METERS) (METERS) (METERS) (METERS) (METERS)
(METERS)   BY
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- -

 L0012094   0   0.96290E-07 454966.9 3767589.7   286.8   3.49   4.00
3.25   YES
 L0012095   0   0.96290E-07 454975.4 3767589.3   286.8   3.49   4.00
3.25   YES
 L0012096   0   0.96290E-07 454984.0 3767589.0   286.8   3.49   4.00
3.25   YES
 L0012097   0   0.96290E-07 454992.6 3767588.6   286.8   3.49   4.00
3.25   YES
 L0012098   0   0.96290E-07 455001.2 3767588.2   286.8   3.49   4.00
3.25   YES
 L0012099   0   0.96290E-07 455009.8 3767587.8   286.9   3.49   4.00
3.25   YES
 L0012100   0   0.96290E-07 455018.4 3767587.5   287.0   3.49   4.00
3.25   YES
 L0012101   0   0.96290E-07 455026.9 3767587.1   287.0   3.49   4.00
3.25   YES
 L0012102   0   0.96290E-07 455035.5 3767586.7   287.0   3.49   4.00
3.25   YES
 L0012103   0   0.96290E-07 455044.1 3767586.4   287.0   3.49   4.00
3.25   YES
 L0012104   0   0.96290E-07 455052.7 3767586.0   287.0   3.49   4.00
3.25   YES

L0012105	0	0.96290E-07	455061.3	3767585.6	287.0	3.49	4.00	3.25 YES
L0012106	0	0.96290E-07	455069.9	3767585.4	287.0	3.49	4.00	3.25 YES
L0012107	0	0.96290E-07	455078.4	3767585.6	287.0	3.49	4.00	3.25 YES
L0012108	0	0.96290E-07	455087.0	3767585.7	287.0	3.49	4.00	3.25 YES
L0012109	0	0.96290E-07	455095.6	3767585.8	287.0	3.49	4.00	3.25 YES
L0012110	0	0.96290E-07	455104.2	3767585.9	287.0	3.49	4.00	3.25 YES
L0012111	0	0.96290E-07	455112.8	3767586.1	287.0	3.49	4.00	3.25 YES
L0012112	0	0.96290E-07	455121.4	3767586.2	287.0	3.49	4.00	3.25 YES
L0012113	0	0.96290E-07	455130.0	3767586.3	287.0	3.49	4.00	3.25 YES
L0012114	0	0.96290E-07	455138.6	3767586.4	287.0	3.49	4.00	3.25 YES
L0012115	0	0.96290E-07	455147.2	3767586.6	287.0	3.49	4.00	3.25 YES
L0012116	0	0.96290E-07	455155.7	3767586.7	287.0	3.49	4.00	3.25 YES
L0012117	0	0.96290E-07	455164.3	3767586.8	287.0	3.49	4.00	3.25 YES
L0012118	0	0.96290E-07	455172.9	3767586.9	287.0	3.49	4.00	3.25 YES
L0012119	0	0.96290E-07	455181.5	3767587.1	287.0	3.49	4.00	3.25 YES
L0012120	0	0.96290E-07	455190.1	3767587.2	287.0	3.49	4.00	3.25 YES
L0012121	0	0.96290E-07	455198.7	3767587.3	287.0	3.49	4.00	3.25 YES
L0012122	0	0.96290E-07	455207.3	3767587.4	287.0	3.49	4.00	3.25 YES
L0012123	0	0.96290E-07	455215.9	3767587.6	287.0	3.49	4.00	3.25 YES
L0012124	0	0.96290E-07	455224.5	3767587.7	287.0	3.49	4.00	3.25 YES
L0012125	0	0.96290E-07	455233.0	3767587.8	287.0	3.49	4.00	3.25 YES
L0012126	0	0.96290E-07	455241.6	3767587.9	287.0	3.49	4.00	3.25 YES
L0012127	0	0.96290E-07	455250.2	3767588.1	287.0	3.49	4.00	3.25 YES
L0012128	0	0.96290E-07	455258.8	3767588.2	287.0	3.49	4.00	3.25 YES

```
 L0012129         0   0.96290E-07  455267.4 3767588.3   287.2     3.49     4.00
3.25     YES
 L0012130         0   0.96290E-07  455276.0 3767588.4   287.4     3.49     4.00
3.25     YES
 L0012131         0   0.96290E-07  455284.6 3767588.4   287.6     3.49     4.00
3.25     YES
 L0012132         0   0.96290E-07  455293.2 3767588.3   287.8     3.49     4.00
3.25     YES
 L0012133         0   0.96290E-07  455301.8 3767588.2   287.8     3.49     4.00
3.25     YES
```



```
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*


                                                      *** VOLUME SOURCE DATA ***

               NUMBER EMISSION RATE                    BASE    RELEASE    INIT.
INIT.   URBAN  EMISSION RATE
   SOURCE       PART.  (GRAMS/SEC)     X        Y      ELEV.   HEIGHT      SY
SZ     SOURCE  SCALAR VARY
     ID         CATS.               (METERS) (METERS) (METERS) (METERS) (METERS)
(METERS)             BY
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - -

 L0012134         0   0.96290E-07  455310.3 3767588.1   287.9     3.49     4.00
3.25     YES
 L0012135         0   0.96290E-07  455318.9 3767588.0   288.0     3.49     4.00
3.25     YES
 L0012136         0   0.96290E-07  455327.5 3767587.9   288.0     3.49     4.00
3.25     YES
 L0012137         0   0.96290E-07  455336.1 3767587.8   288.0     3.49     4.00
3.25     YES
 L0012138         0   0.96290E-07  455344.7 3767587.7   288.0     3.49     4.00
3.25     YES
 L0012139         0   0.96290E-07  455353.3 3767587.6   288.0     3.49     4.00
3.25     YES
 L0012140         0   0.96290E-07  455361.9 3767587.4   288.0     3.49     4.00
3.25     YES
 L0012141         0   0.96290E-07  455370.5 3767587.3   288.0     3.49     4.00
3.25     YES
 L0012142         0   0.96290E-07  455379.1 3767587.2   288.0     3.49     4.00
3.25     YES
```

L0012143	0	0.96290E-07	455387.6	3767587.1	288.0	3.49	4.00	3.25 YES
L0012144	0	0.96290E-07	455396.2	3767587.0	288.0	3.49	4.00	3.25 YES
L0012145	0	0.96290E-07	455404.8	3767586.9	288.0	3.49	4.00	3.25 YES
L0012146	0	0.96290E-07	455413.4	3767586.8	288.1	3.49	4.00	3.25 YES
L0012147	0	0.96290E-07	455422.0	3767586.7	288.3	3.49	4.00	3.25 YES
L0012148	0	0.96290E-07	455430.6	3767586.6	288.5	3.49	4.00	3.25 YES
L0012149	0	0.96290E-07	455439.2	3767586.5	288.7	3.49	4.00	3.25 YES
L0012150	0	0.96290E-07	455447.8	3767586.4	288.7	3.49	4.00	3.25 YES
L0012151	0	0.96290E-07	455456.4	3767586.3	288.7	3.49	4.00	3.25 YES
L0012152	0	0.96290E-07	455465.0	3767586.2	288.7	3.49	4.00	3.25 YES
L0012153	0	0.96290E-07	455473.5	3767586.0	288.7	3.49	4.00	3.25 YES
L0012154	0	0.96290E-07	455482.1	3767585.9	288.7	3.49	4.00	3.25 YES
L0012155	0	0.96290E-07	455490.7	3767585.8	288.7	3.49	4.00	3.25 YES
L0012156	0	0.96290E-07	455499.3	3767585.7	288.7	3.49	4.00	3.25 YES
L0012157	0	0.96290E-07	455507.9	3767585.6	288.6	3.49	4.00	3.25 YES
L0012158	0	0.96290E-07	455516.5	3767585.5	288.6	3.49	4.00	3.25 YES
L0012159	0	0.96290E-07	455525.1	3767585.4	288.6	3.49	4.00	3.25 YES
L0012160	0	0.96290E-07	455533.7	3767585.3	288.6	3.49	4.00	3.25 YES
L0012161	0	0.96290E-07	455542.3	3767585.2	288.6	3.49	4.00	3.25 YES
L0012162	0	0.96290E-07	455550.8	3767585.2	288.6	3.49	4.00	3.25 YES
L0012163	0	0.96290E-07	455559.4	3767585.1	288.6	3.49	4.00	3.25 YES
L0012164	0	0.96290E-07	455568.0	3767585.0	288.7	3.49	4.00	3.25 YES
L0012165	0	0.96290E-07	455576.6	3767584.9	288.8	3.49	4.00	3.25 YES
L0012166	0	0.96290E-07	455585.2	3767584.9	288.9	3.49	4.00	3.25 YES

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 L0012167         0   0.96290E-07  455593.8 3767584.8   289.0     3.49     4.00
3.25     YES
 L0012168         0   0.96290E-07  455602.4 3767584.7   289.0     3.49     4.00
3.25     YES
 L0012169         0   0.96290E-07  455611.0 3767584.6   289.0     3.49     4.00
3.25     YES
 L0012170         0   0.96290E-07  455619.6 3767584.5   289.0     3.49     4.00
3.25     YES
 L0012171         0   0.96290E-07  455628.2 3767584.5   289.0     3.49     4.00
3.25     YES
 L0012172         0   0.96290E-07  455636.7 3767584.4   289.0     3.49     4.00
3.25     YES
 L0012173         0   0.96290E-07  455645.3 3767584.3   289.0     3.49     4.00
3.25     YES
 *** AERMOD - VERSION  18081 ***   *** C:\LAKES\AERMOD VIEW\12979 HRA\12979
HRA.ISC                          ***        10/07/19
 *** AERMET - VERSION  16216 ***   ***
                          ***        12:30:42

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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*


                                                      *** VOLUME SOURCE DATA ***

               NUMBER EMISSION RATE                     BASE    RELEASE    INIT.
INIT.   URBAN  EMISSION RATE
   SOURCE       PART.  (GRAMS/SEC)     X        Y      ELEV.   HEIGHT      SY
SZ     SOURCE  SCALAR VARY
     ID         CATS.               (METERS) (METERS) (METERS) (METERS) (METERS)
(METERS)             BY
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 L0012174         0   0.96290E-07  455653.9 3767584.2   289.0     3.49     4.00
3.25     YES
 L0012175         0   0.96290E-07  455662.5 3767584.2   289.0     3.49     4.00
3.25     YES
 L0012176         0   0.96290E-07  455671.1 3767584.1   289.0     3.49     4.00
3.25     YES
 L0012177         0   0.96290E-07  455679.7 3767584.0   289.0     3.49     4.00
3.25     YES
 L0012178         0   0.96290E-07  455688.3 3767583.9   289.2     3.49     4.00
3.25     YES
 L0012179         0   0.96290E-07  455696.9 3767583.9   289.3     3.49     4.00
3.25     YES
 L0012180         0   0.96290E-07  455705.5 3767583.8   289.5     3.49     4.00
3.25     YES
```

L0012181	0	0.96290E-07	455714.1	3767583.7	289.6	3.49	4.00	3.25 YES
L0012182	0	0.96290E-07	455722.6	3767583.6	289.6	3.49	4.00	3.25 YES
L0012183	0	0.96290E-07	455731.2	3767583.5	289.6	3.49	4.00	3.25 YES
L0012184	0	0.96290E-07	455739.8	3767583.5	289.6	3.49	4.00	3.25 YES
L0012185	0	0.96290E-07	455748.4	3767583.4	289.6	3.49	4.00	3.25 YES
L0012186	0	0.96290E-07	455757.0	3767583.3	289.6	3.49	4.00	3.25 YES
L0012187	0	0.96290E-07	455765.6	3767583.2	289.6	3.49	4.00	3.25 YES
L0012188	0	0.96290E-07	455774.2	3767583.2	289.7	3.49	4.00	3.25 YES
L0012189	0	0.96290E-07	455782.8	3767583.1	290.0	3.49	4.00	3.25 YES
L0012190	0	0.96290E-07	455791.4	3767583.0	290.3	3.49	4.00	3.25 YES
L0012191	0	0.96290E-07	455799.9	3767582.9	290.6	3.49	4.00	3.25 YES
L0012192	0	0.96290E-07	455808.5	3767582.8	290.7	3.49	4.00	3.25 YES
L0012193	0	0.96290E-07	455817.1	3767582.8	290.8	3.49	4.00	3.25 YES
L0012194	0	0.96290E-07	455825.7	3767582.7	290.9	3.49	4.00	3.25 YES
L0012195	0	0.96290E-07	455834.3	3767582.6	290.8	3.49	4.00	3.25 YES
L0012196	0	0.96290E-07	455842.9	3767582.5	290.6	3.49	4.00	3.25 YES
L0012197	0	0.96290E-07	455851.5	3767582.5	290.3	3.49	4.00	3.25 YES
L0012198	0	0.96290E-07	455860.1	3767582.4	290.0	3.49	4.00	3.25 YES
L0012199	0	0.96290E-07	455868.7	3767582.3	290.2	3.49	4.00	3.25 YES
L0012200	0	0.96290E-07	455877.3	3767582.4	290.3	3.49	4.00	3.25 YES
L0012201	0	0.96290E-07	455885.8	3767582.5	290.5	3.49	4.00	3.25 YES
L0012202	0	0.96290E-07	455894.4	3767582.6	290.6	3.49	4.00	3.25 YES
L0012203	0	0.96290E-07	455903.0	3767582.7	290.8	3.49	4.00	3.25 YES
L0012204	0	0.96290E-07	455911.6	3767582.8	290.9	3.49	4.00	3.25 YES

```
 L0012205         0   0.96290E-07  455920.2 3767583.0   291.0     3.49     4.00
3.25     YES
 L0012206         0   0.96290E-07  455928.8 3767583.1   291.0     3.49     4.00
3.25     YES
 L0012207         0   0.96290E-07  455937.4 3767583.2   291.0     3.49     4.00
3.25     YES
 L0012208         0   0.96290E-07  455946.0 3767583.3   291.0     3.49     4.00
3.25     YES
 L0012209         0   0.96290E-07  455954.6 3767583.4   291.1     3.49     4.00
3.25     YES
 L0012210         0   0.96290E-07  455963.1 3767583.5   291.3     3.49     4.00
3.25     YES
 L0012211         0   0.96290E-07  455971.7 3767583.6   291.4     3.49     4.00
3.25     YES
 L0012212         0   0.96290E-07  455980.3 3767583.7   291.6     3.49     4.00
3.25     YES
 L0012213         0   0.96290E-07  455988.9 3767583.9   291.7     3.49     4.00
3.25     YES
```



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                                                      *** VOLUME SOURCE DATA ***

               NUMBER EMISSION RATE                    BASE    RELEASE    INIT.
INIT.   URBAN  EMISSION RATE
   SOURCE       PART.  (GRAMS/SEC)     X        Y      ELEV.   HEIGHT      SY
SZ     SOURCE  SCALAR VARY
     ID         CATS.               (METERS) (METERS) (METERS) (METERS) (METERS)
(METERS)             BY
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - -

 L0012214         0   0.96290E-07  455997.5 3767584.0   291.8     3.49     4.00
3.25     YES
 L0012215         0   0.96290E-07  456006.1 3767584.1   291.9     3.49     4.00
3.25     YES
 L0012216         0   0.96290E-07  456014.7 3767584.2   292.0     3.49     4.00
3.25     YES
 L0012217         0   0.96290E-07  456023.3 3767584.3   292.0     3.49     4.00
3.25     YES
 L0012218         0   0.96290E-07  456031.9 3767584.4   292.0     3.49     4.00
3.25     YES
```

L0012219	0	0.96290E-07	456040.5	3767584.5	292.0	3.49	4.00	3.25 YES
L0012220	0	0.96290E-07	456049.0	3767584.6	292.3	3.49	4.00	3.25 YES
L0012221	0	0.96290E-07	456057.6	3767584.7	292.6	3.49	4.00	3.25 YES
L0012222	0	0.96290E-07	456066.2	3767584.9	292.9	3.49	4.00	3.25 YES
L0012223	0	0.96290E-07	456074.8	3767585.0	293.0	3.49	4.00	3.25 YES
L0012224	0	0.96290E-07	456083.4	3767585.1	293.0	3.49	4.00	3.25 YES
L0012225	0	0.96290E-07	456092.0	3767585.2	293.0	3.49	4.00	3.25 YES
L0012226	0	0.96290E-07	456100.6	3767585.3	293.0	3.49	4.00	3.25 YES
L0012227	0	0.96290E-07	456109.2	3767585.4	293.2	3.49	4.00	3.25 YES
L0012228	0	0.96290E-07	456117.8	3767585.5	293.4	3.49	4.00	3.25 YES
L0012229	0	0.96290E-07	456126.3	3767585.5	293.6	3.49	4.00	3.25 YES
L0012230	0	0.96290E-07	456134.9	3767585.6	293.7	3.49	4.00	3.25 YES
L0012231	0	0.96290E-07	456143.5	3767585.6	293.8	3.49	4.00	3.25 YES
L0012232	0	0.96290E-07	456152.1	3767585.7	293.9	3.49	4.00	3.25 YES
L0012233	0	0.96290E-07	456160.7	3767585.7	294.0	3.49	4.00	3.25 YES
L0012234	0	0.96290E-07	456169.3	3767585.8	293.9	3.49	4.00	3.25 YES
L0012235	0	0.96290E-07	456177.9	3767585.8	293.8	3.49	4.00	3.25 YES
L0012236	0	0.96290E-07	456186.5	3767585.9	293.7	3.49	4.00	3.25 YES
L0012237	0	0.96290E-07	456195.1	3767585.9	293.7	3.49	4.00	3.25 YES
L0012238	0	0.96290E-07	456203.7	3767586.0	293.7	3.49	4.00	3.25 YES
L0012239	0	0.96290E-07	456212.2	3767586.0	293.7	3.49	4.00	3.25 YES
L0012240	0	0.96290E-07	456220.8	3767586.1	293.7	3.49	4.00	3.25 YES
L0012241	0	0.96290E-07	456229.4	3767586.1	293.7	3.49	4.00	3.25 YES
L0012242	0	0.96290E-07	456238.0	3767586.2	293.7	3.49	4.00	3.25 YES

```
 L0012243         0   0.96290E-07  456246.6 3767586.2   293.7     3.49     4.00
3.25     YES
 L0012244         0   0.96290E-07  456255.2 3767586.3   293.7     3.49     4.00
3.25     YES
 L0012245         0   0.96290E-07  456263.8 3767586.3   293.7     3.49     4.00
3.25     YES
 L0012246         0   0.96290E-07  456272.4 3767586.4   293.7     3.49     4.00
3.25     YES
 L0012247         0   0.96290E-07  456281.0 3767586.4   293.7     3.49     4.00
3.25     YES
 L0012248         0   0.96290E-07  456289.6 3767586.5   293.8     3.49     4.00
3.25     YES
 L0012249         0   0.96290E-07  456298.1 3767586.5   293.9     3.49     4.00
3.25     YES
 L0012250         0   0.96290E-07  456306.7 3767586.6   294.0     3.49     4.00
3.25     YES
 L0012251         0   0.96290E-07  456315.3 3767586.6   294.0     3.49     4.00
3.25     YES
 L0012252         0   0.96290E-07  456323.9 3767586.7   294.0     3.49     4.00
3.25     YES
 L0012253         0   0.96290E-07  456332.5 3767586.8   294.0     3.49     4.00
3.25     YES
 *** AERMOD - VERSION  18081 ***   *** C:\LAKES\AERMOD VIEW\12979 HRA\12979
HRA.ISC                          ***        10/07/19
 *** AERMET - VERSION  16216 ***   ***
                         ***       12:30:42

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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*


                                                    *** VOLUME SOURCE DATA ***

               NUMBER EMISSION RATE                    BASE    RELEASE    INIT.
INIT.   URBAN  EMISSION RATE
   SOURCE       PART.  (GRAMS/SEC)     X        Y      ELEV.   HEIGHT      SY
SZ     SOURCE  SCALAR VARY
     ID         CATS.               (METERS) (METERS) (METERS) (METERS) (METERS)
(METERS)             BY
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - -

 L0012254         0   0.96290E-07  456341.1 3767586.8   294.0     3.49     4.00
3.25     YES
 L0012255         0   0.96290E-07  456349.7 3767586.9   294.2     3.49     4.00
3.25     YES
 L0012256         0   0.96290E-07  456358.3 3767586.9   294.4     3.49     4.00
3.25     YES
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 L0012257         0   0.96290E-07  456366.9 3767587.0   294.6     3.49     4.00
3.25     YES
 L0012258         0   0.96290E-07  456375.5 3767587.0   294.8     3.49     4.00
3.25     YES
 L0012259         0   0.96290E-07  456384.0 3767587.1   294.8     3.49     4.00
3.25     YES
 L0012260         0   0.96290E-07  456392.6 3767587.1   294.9     3.49     4.00
3.25     YES
 L0012261         0   0.96290E-07  456401.2 3767587.2   295.0     3.49     4.00
3.25     YES
 L0012262         0   0.96290E-07  456409.8 3767587.2   295.0     3.49     4.00
3.25     YES
 L0012263         0   0.96290E-07  456418.4 3767587.3   295.0     3.49     4.00
3.25     YES
 L0012264         0   0.96290E-07  456427.0 3767587.4   295.0     3.49     4.00
3.25     YES
 L0012265         0   0.96290E-07  456435.6 3767587.9   295.1     3.49     4.00
3.25     YES
 L0012266         0   0.96290E-07  456444.1 3767588.4   295.4     3.49     4.00
3.25     YES
 L0012267         0   0.96290E-07  456452.7 3767589.0   295.6     3.49     4.00
3.25     YES
 L0012268         0   0.96290E-07  456461.3 3767589.5   295.8     3.49     4.00
3.25     YES
 L0012269         0   0.96290E-07  456469.9 3767590.1   295.8     3.49     4.00
3.25     YES
 L0012270         0   0.96290E-07  456478.4 3767590.6   295.8     3.49     4.00
3.25     YES
 L0012271         0   0.96290E-07  456487.0 3767591.2   295.8     3.49     4.00
3.25     YES
 *** AERMOD - VERSION  18081 ***   *** C:\LAKES\AERMOD VIEW\12979 HRA\12979
HRA.ISC                          ***        10/07/19
 *** AERMET - VERSION  16216 ***   ***
                         ***        12:30:42

                                   PAGE  58
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*


                                                *** SOURCE IDs DEFINING SOURCE GROUPS
***

 SRCGROUP ID                                                SOURCE IDs
 -----------                                                ----------


  ALL        L0010054    , L0010055    , L0010056    , L0010057    , L0010058    ,
L0010059    , L0010060    , L0010061    ,
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L0010062 , L0010063 , L0010064 , L0010065 , L0010066 ,
L0010067 , L0010068 , L0010069 ,

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L0010099 , L0010100 , L0010101 ,

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L0010211    , L0010212    , L0010213    ,
 *** AERMOD - VERSION  18081 ***   *** C:\LAKES\AERMOD VIEW\12979 HRA\12979
HRA.ISC                          ***        10/07/19
 *** AERMET - VERSION  16216 ***   ***
                         ***        12:30:42

                                    PAGE  59
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*


                                                *** SOURCE IDs DEFINING SOURCE GROUPS
***

 SRCGROUP ID                                              SOURCE IDs
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L0010227    , L0010228    , L0010229    ,

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             L0010238    , L0010239    , L0010240    , L0010241    , L0010242    ,
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 *** AERMOD - VERSION  18081 ***   *** C:\LAKES\AERMOD VIEW\12979 HRA\12979
HRA.ISC                          ***        10/07/19
 *** AERMET - VERSION  16216 ***   ***
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                                   PAGE  60
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*


                                                *** SOURCE IDs DEFINING SOURCE GROUPS
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SRCGROUP ID	SOURCE IDs
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** SOURCE IDs DEFINING SOURCE GROUPS ***

SRCGROUP ID	SOURCE IDs
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** SOURCE IDs DEFINING SOURCE GROUPS ***

SRCGROUP ID	SOURCE IDs
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** SOURCE IDs DEFINING SOURCE GROUPS ***

SRCGROUP ID	SOURCE IDs

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 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                                                *** SOURCE IDs DEFINING SOURCE GROUPS ***

 SRCGROUP ID   SOURCE IDs
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** SOURCE IDs DEFINING SOURCE GROUPS ***

SRCGROUP ID	SOURCE IDs

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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** SOURCE IDs DEFINING SOURCE GROUPS ***

SRCGROUP ID	SOURCE IDs

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 *** AERMOD - VERSION  18081 ***   *** C:\LAKES\AERMOD VIEW\12979 HRA\12979
HRA.ISC                         ***        10/07/19
 *** AERMET - VERSION  16216 ***   ***
                          ***        12:30:42

                                    PAGE  67
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*


                                              *** SOURCE IDs DEFINING SOURCE GROUPS
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 SRCGROUP ID                                              SOURCE IDs
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L0011643    , L0011644    , L0011645    ,

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↑ *** AERMOD - VERSION  18081 ***   *** C:\LAKES\AERMOD VIEW\12979 HRA\12979
HRA.ISC                          ***        10/07/19
 *** AERMET - VERSION  16216 ***   ***
                        ***        12:30:42

                                   PAGE  68
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*


                                          *** SOURCE IDs DEFINING SOURCE GROUPS
***

 SRCGROUP ID                                                SOURCE IDs
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↑ *** AERMOD - VERSION  18081 ***   *** C:\LAKES\AERMOD VIEW\12979 HRA\12979
HRA.ISC                          ***        10/07/19
 *** AERMET - VERSION  16216 ***   ***
                       ***        12:30:42

                                  PAGE  69
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*
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*** SOURCE IDs DEFINING SOURCE GROUPS ***

SRCGROUP ID	SOURCE IDs
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	L0011886 , L0011887 , L0011888 , L0011889 , L0011890 , L0011891 , L0011892 , L0011893 ,
	L0011894 , L0011895 , L0011896 , L0011897 , L0011898 , L0011899 , L0011900 , L0011901 ,
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** SOURCE IDs DEFINING SOURCE GROUPS ***

SRCGROUP ID	SOURCE IDs

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L0011987 , L0011988 , L0011989 ,

L0011990 , L0011991 , L0011992 , L0011993 , L0011994 ,
L0011995 , L0011996 , L0011997 ,

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 *** AERMOD - VERSION  18081 ***   *** C:\LAKES\AERMOD VIEW\12979 HRA\12979
HRA.ISC                        ***        10/07/19
 *** AERMET - VERSION  16216 ***   ***
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** SOURCE IDs DEFINING SOURCE GROUPS ***

SRCGROUP ID	SOURCE IDs
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	L0012158 , L0012159 , L0012160 , L0012161 , L0012162 , L0012163 , L0012164 , L0012165 ,
	L0012166 , L0012167 , L0012168 , L0012169 , L0012170 , L0012171 , L0012172 , L0012173 ,
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** SOURCE IDs DEFINED AS URBAN SOURCES ***

URBAN ID	URBAN POP	SOURCE IDs

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 *** AERMOD - VERSION  18081 ***   *** C:\LAKES\AERMOD VIEW\12979 HRA\12979
HRA.ISC                        ***        10/07/19
 *** AERMET - VERSION  16216 ***   ***
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** SOURCE IDs DEFINED AS URBAN SOURCES ***

URBAN ID	URBAN POP	SOURCE IDs
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		L0010230 , L0010231 , L0010232 , L0010233 , L0010234 , L0010235 , L0010236 , L0010237 ,
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** SOURCE IDs DEFINED AS URBAN SOURCES ***

URBAN ID	URBAN POP	SOURCE IDs

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↟ *** AERMOD - VERSION 18081 *** *** C:\LAKES\AERMOD VIEW\12979 HRA\12979
HRA.ISC *** 10/07/19
*** AERMET - VERSION 16216 *** ***
*** 12:30:42

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** SOURCE IDs DEFINED AS URBAN SOURCES
***

URBAN ID	URBAN POP	SOURCE IDs

L0010534 , L0010535 , L0010536 , L0010537 , L0010538 ,
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** SOURCE IDs DEFINED AS URBAN SOURCES ***

URBAN ID	URBAN POP	SOURCE IDs

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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** SOURCE IDs DEFINED AS URBAN SOURCES ***

URBAN ID	URBAN POP	SOURCE IDs

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L0011011    , L0011012    , L0011013    ,
 *** AERMOD - VERSION  18081 ***   *** C:\LAKES\AERMOD VIEW\12979 HRA\12979
HRA.ISC                          ***        10/07/19
 *** AERMET - VERSION  16216 ***   ***
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                                   PAGE  78
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*


                                              *** SOURCE IDs DEFINED AS URBAN SOURCES
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URBAN ID	URBAN POP	SOURCE IDs
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L0011163 , L0011164 , L0011165 ,

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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** SOURCE IDs DEFINED AS URBAN SOURCES ***

URBAN ID	URBAN POP	SOURCE IDs

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 *** AERMOD - VERSION  18081 ***   *** C:\LAKES\AERMOD VIEW\12979 HRA\12979
HRA.ISC                        ***        10/07/19
 *** AERMET - VERSION  16216 ***   ***
                       ***        12:30:42
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** SOURCE IDs DEFINED AS URBAN SOURCES ***

URBAN ID	URBAN POP	SOURCE IDs
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** SOURCE IDs DEFINED AS URBAN SOURCES ***

URBAN ID	URBAN POP	SOURCE IDs

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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** SOURCE IDs DEFINED AS URBAN SOURCES ***

URBAN ID	URBAN POP	SOURCE IDs

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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** SOURCE IDs DEFINED AS URBAN SOURCES ***

URBAN ID	URBAN POP	SOURCE IDs

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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** SOURCE IDs DEFINED AS URBAN SOURCES ***

URBAN ID	URBAN POP	SOURCE IDs

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             L0012094    , L0012095    , L0012096    , L0012097    , L0012098    ,
L0012099    , L0012100    , L0012101    ,

             L0012102    , L0012103    , L0012104    , L0012105    , L0012106    ,
L0012107    , L0012108    , L0012109    ,

             L0012110    , L0012111    , L0012112    , L0012113    , L0012114    ,
L0012115    , L0012116    , L0012117    ,

             L0012118    , L0012119    , L0012120    , L0012121    , L0012122    ,
L0012123    , L0012124    , L0012125    ,

             L0012126    , L0012127    , L0012128    , L0012129    , L0012130    ,
L0012131    , L0012132    , L0012133    ,
 *** AERMOD - VERSION  18081 ***   *** C:\LAKES\AERMOD VIEW\12979 HRA\12979
HRA.ISC                         ***        10/07/19
 *** AERMET - VERSION  16216 ***   ***
                          ***        12:30:42

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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*


                                          *** SOURCE IDs DEFINED AS URBAN SOURCES
***

  URBAN ID   URBAN POP                                    SOURCE IDs
  --------   ---------                                    ----------
```

L0012134 , L0012135 , L0012136 , L0012137 , L0012138 ,
L0012139 , L0012140 , L0012141 ,

L0012142 , L0012143 , L0012144 , L0012145 , L0012146 ,
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L0012158 , L0012159 , L0012160 , L0012161 , L0012162 ,
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L0012211 , L0012212 , L0012213 ,

L0012214 , L0012215 , L0012216 , L0012217 , L0012218 ,
L0012219 , L0012220 , L0012221 ,

L0012222 , L0012223 , L0012224 , L0012225 , L0012226 ,
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L0012259 , L0012260 , L0012261 ,

L0012262 , L0012263 , L0012264 , L0012265 , L0012266 , L0012267 , L0012268 , L0012269 ,

L0012270 , L0012271 ,

*** AERMOD - VERSION 18081 *** *** C:\LAKES\AERMOD VIEW\12979 HRA\12979 HRA.ISC *** 10/07/19

*** AERMET - VERSION 16216 *** *** *** 12:30:42

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

(458920.7, 3769259.2, 330.0, 675.0, 0.0); (459018.4, 3769263.0, 330.0, 675.0, 0.0);
(458733.4, 3769269.2, 328.9, 675.0, 0.0); (458720.7, 3769197.2, 328.0, 675.0, 0.0);
(459019.6, 3769123.8, 328.0, 675.0, 0.0); (458973.2, 3769029.7, 326.9, 675.0, 0.0);
(459013.2, 3769028.0, 327.0, 675.0, 0.0); (458855.4, 3769009.8, 326.1, 675.0, 0.0);
(458852.1, 3769268.0, 329.5, 675.0, 0.0); (458788.3, 3769192.4, 328.0, 675.0, 0.0);
(458788.8, 3769124.9, 327.0, 675.0, 0.0); (458790.8, 3769058.9, 326.8, 675.0, 0.0);
(459010.4, 3769168.9, 329.0, 675.0, 0.0); (458566.1, 3769009.3, 325.0, 675.0, 0.0);
(458466.9, 3768943.9, 324.0, 675.0, 0.0); (458341.7, 3768940.4, 323.8, 675.0, 0.0);
(458227.8, 3768902.4, 323.0, 675.0, 0.0); (458465.5, 3768749.8, 321.9, 675.0, 0.0);
(458458.5, 3768844.7, 323.0, 675.0, 0.0); (458634.3, 3768806.0, 323.0, 675.0, 0.0);
(458727.1, 3768796.2, 323.0, 675.0, 0.0); (458949.4, 3768810.2, 324.0, 675.0, 0.0);
(458904.4, 3768801.1, 324.0, 675.0, 0.0); (458903.0, 3768763.1, 323.5, 675.0, 0.0);
(458824.9, 3768810.2, 324.0, 675.0, 0.0); (458925.5, 3768668.9, 322.0, 675.0, 0.0);
(459859.8, 3769493.1, 335.0, 341.0, 0.0); (459075.3, 3767903.8, 316.0, 675.0, 0.0);
(459027.0, 3767887.4, 315.9, 675.0, 0.0); (459024.5, 3767912.3, 316.0, 675.0, 0.0);
(459020.4, 3767820.0, 315.0, 675.0, 0.0); (459059.9,

3767820.0,   315.0,   675.0,   0.0);
     (459011.8, 3767785.7,   315.0,   675.0,   0.0);   (458882.5,
3768032.8,   316.0,   675.0,   0.0);
     (458879.1, 3767925.2,   315.0,   675.0,   0.0);   (458878.5,
3767752.3,   314.0,   675.0,   0.0);
     (459163.6, 3767664.7,   316.0,   675.0,   0.0);   (459314.9,
3768240.4,   320.0,   675.0,   0.0);
     (459366.3, 3768244.2,   320.0,   675.0,   0.0);   (459251.7,
3768457.3,   321.7,   675.0,   0.0);
     (458960.6, 3768474.0,   320.3,   675.0,   0.0);   (458145.2,
3768929.4,   322.1,   675.0,   0.0);
     (459288.7, 3767572.2,   319.8,   675.0,   0.0);   (459048.6,
3767565.5,   316.0,   675.0,   0.0);
     (459845.1, 3768156.0,   321.0,   675.0,   0.0);   (459773.5,
3768189.5,   321.0,   675.0,   0.0);
     (459706.0, 3767631.6,   320.2,   675.0,   0.0);   (459777.6,
3767572.5,   322.0,   675.0,   0.0);
     (459827.2, 3767577.4,   322.0,   675.0,   0.0);   (460487.8,
3765187.5,   304.7,   675.0,   0.0);
     (460662.8, 3764922.2,   294.8,   675.0,   0.0);   (460775.7,
3764395.5,   284.0,   675.0,   0.0);
     (460660.3, 3764313.9,   284.0,   675.0,   0.0);   (460503.1,
3763956.2,   278.1,   675.0,   0.0);
     (460386.0, 3763930.0,   279.1,   675.0,   0.0);   (461436.0,
3768466.4,   321.0,   675.0,   0.0);
     (461455.3, 3768667.3,   322.8,   579.0,   0.0);   (461627.2,
3768632.5,   321.5,   579.0,   0.0);
     (460439.4, 3768481.4,   325.0,   675.0,   0.0);   (460925.9,
3768484.1,   324.0,   675.0,   0.0);
     (459760.9, 3768457.9,   324.0,   675.0,   0.0);   (459775.1,
3768792.4,   327.0,   675.0,   0.0);
     (459764.0, 3768252.9,   322.0,   675.0,   0.0);   (459754.9,
3768366.5,   323.0,   675.0,   0.0);
     (459028.0, 3768255.0,   319.0,   675.0,   0.0);   (459022.7,
3768335.8,   319.3,   675.0,   0.0);
     (459018.0, 3768398.0,   320.0,   675.0,   0.0);   (459289.1,
3768382.7,   321.1,   675.0,   0.0);
     (455260.0, 3767561.9,   287.0,   538.0,   0.0);   (454577.1,
3767572.2,   284.0,   284.0,   0.0);
     (460420.9, 3765277.2,   308.7,   675.0,   0.0);   (459830.2,
3767366.9,   327.7,   675.0,   0.0);
     (459834.3, 3767222.8,   332.4,   675.0,   0.0);   (459834.3,
3767102.7,   336.7,   675.0,   0.0);
     (459777.8, 3767490.3,   323.5,   675.0,   0.0);   (459832.7,
3767491.7,   323.5,   675.0,   0.0);
     (459778.5, 3767475.0,   324.1,   675.0,   0.0);   (459694.7,
3767772.2,   318.0,   675.0,   0.0);
     (459759.1, 3767778.0,   318.0,   675.0,   0.0);   (459764.6,

3767808.2,   318.0,   675.0,   0.0);
     (459756.2, 3767744.9,   319.0,   675.0,   0.0);   (459700.0,
3767666.4,   319.7,   675.0,   0.0);
     (459748.2, 3767728.3,   319.0,   675.0,   0.0);   (459766.8,
3767724.1,   319.2,   675.0,   0.0);
     (459769.9, 3767690.1,   319.9,   675.0,   0.0);   (459728.3,
3767743.3,   319.0,   675.0,   0.0);
     (459756.3, 3767653.5,   320.1,   675.0,   0.0);   (459692.6,
3767912.5,   319.0,   675.0,   0.0);
     (459692.6, 3767834.8,   318.0,   675.0,   0.0);   (459692.3,
3767847.8,   318.1,   675.0,   0.0);

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                                        *** DISCRETE CARTESIAN RECEPTORS ***
                                      (X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
                                                (METERS)

     (459692.0, 3767881.6,   318.6,   675.0,   0.0);   (459692.0,
3767898.8,   319.0,   675.0,   0.0);
     (459759.5, 3767913.9,   319.0,   675.0,   0.0);   (459761.9,
3767838.9,   318.0,   675.0,   0.0);
     (459723.6, 3767837.3,   318.0,   675.0,   0.0);   (459725.8,
3767914.2,   319.0,   675.0,   0.0);
     (459724.0, 3767897.0,   319.0,   675.0,   0.0);   (459759.5,
3767899.4,   319.0,   675.0,   0.0);
     (459722.2, 3767880.4,   318.5,   675.0,   0.0);   (459761.3,
3767881.0,   318.5,   675.0,   0.0);
     (459692.4, 3767867.5,   318.3,   675.0,   0.0);   (459721.0,
3767868.0,   318.1,   675.0,   0.0);
     (459761.9, 3767865.6,   318.1,   675.0,   0.0);   (459722.8,
3767855.5,   318.0,   675.0,   0.0);
     (459761.9, 3767856.1,   318.1,   675.0,   0.0);   (459850.9,
3768287.6,   322.0,   675.0,   0.0);
     (459846.6, 3768070.0,   320.8,   675.0,   0.0);   (459568.8,
3768253.7,   321.0,   675.0,   0.0);
     (459435.2, 3768342.2,   321.9,   675.0,   0.0);   (459348.4,
3768200.4,   320.0,   675.0,   0.0);
     (459347.4, 3768100.6,   319.0,   675.0,   0.0);   (459348.4,
3767957.0,   318.3,   675.0,   0.0);
     (459348.4, 3767914.4,   318.0,   675.0,   0.0);   (459346.3,
3767865.5,   318.0,   675.0,   0.0);
     (459345.3, 3767792.7,   317.0,   675.0,   0.0);   (459345.3,

3767730.3,   317.0,   675.0,   0.0);
     (459343.2, 3767656.5,   318.0,   675.0,   0.0);   (459042.6,
3768195.2,   318.0,   675.0,   0.0);
     (459036.4, 3768104.7,   317.0,   675.0,   0.0);   (459098.8,
3767966.4,   317.0,   675.0,   0.0);
     (459096.7, 3767862.4,   316.0,   675.0,   0.0);   (459252.7,
3767805.2,   317.0,   675.0,   0.0);
     (459234.0, 3767643.0,   316.7,   675.0,   0.0);   (459197.6,
3768155.7,   319.0,   675.0,   0.0);
     (459220.5, 3767912.3,   317.0,   675.0,   0.0);   (459301.6,
3767726.2,   317.0,   675.0,   0.0);
     (459874.1, 3768498.7,   324.1,   675.0,   0.0);   (459863.5,
3768679.1,   326.0,   675.0,   0.0);
     (459860.5, 3767884.6,   319.0,   675.0,   0.0);   (459866.9,
3767960.6,   320.0,   675.0,   0.0);
     (459846.3, 3767816.4,   319.2,   675.0,   0.0);   (459853.4,
3767721.2,   320.0,   675.0,   0.0);
     (459854.1, 3767641.0,   321.5,   675.0,   0.0);   (459957.8,
3767756.8,   320.4,   675.0,   0.0);
     (458958.2, 3768317.8,   319.0,   675.0,   0.0);   (458628.4,
3768319.4,   317.4,   675.0,   0.0);
     (458751.7, 3768039.2,   315.3,   675.0,   0.0);   (458754.9,
3767908.0,   314.4,   675.0,   0.0);
     (458750.1, 3767784.7,   313.3,   675.0,   0.0);   (458535.5,
3768143.3,   315.2,   675.0,   0.0);
     (458556.4, 3767949.6,   313.8,   675.0,   0.0);   (458558.0,
3767719.1,   311.1,   675.0,   0.0);

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                                                *** METEOROLOGICAL DAYS SELECTED FOR
PROCESSING ***
                                                                  (1=YES; 0=NO)

           1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1
1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
           1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1
1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
           1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1
1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
           1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1
1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
           1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1

1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

NOTE: METEOROLOGICAL DATA ACTUALLY PROCESSED WILL ALSO DEPEND ON WHAT IS INCLUDED IN THE DATA FILE.

*** UPPER BOUND OF FIRST THROUGH FIFTH WIND SPEED CATEGORIES ***

(METERS/SEC)

1.54, 3.09, 5.14, 8.23, 10.80,

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** UP TO THE FIRST 24 HOURS OF METEOROLOGICAL DATA ***

Surface file: FONTANAADJU\FONT_V9_ADJU\FONT_V9.SFC
Met Version: 16216
Profile file: FONTANAADJU\FONT_V9_ADJU\FONT_V9.PFL

Surface format: FREE

Profile format: FREE

Surface station no.: 3102 Upper air station no.: 3190
Name: UNKNOWN Name: UNKNOWN

Year: 2011 Year: 2011

First 24 hours of scalar data

YR	MO	DY	JDY	HR	H0	U*	W*	DT/DZ	ZICNV	ZIMCH	M-O LEN	Z0	BOWEN	ALBEDO	REF WS	WD	HT	REF TA	HT
11	01	01	1	01	-18.5	0.194	-9.000	-9.000	-999.	204.	41.2	0.25	2.82						

```
1.00    1.80   69.    9.1  276.4    5.5
 11 01 01   1 02  -23.8  0.239 -9.000 -9.000 -999.  281.     63.0  0.25   2.82
1.00    2.20   52.    9.1  275.4    5.5
 11 01 01   1 03  -18.5  0.194 -9.000 -9.000 -999.  205.     41.2  0.25   2.82
1.00    1.80   32.    9.1  275.4    5.5
 11 01 01   1 04   -1.4  0.067 -9.000 -9.000 -999.   57.     18.3  0.25   2.82
1.00    0.40   27.    9.1  274.2    5.5
 11 01 01   1 05  -18.6  0.194 -9.000 -9.000 -999.  204.     41.2  0.25   2.82
1.00    1.80   51.    9.1  274.2    5.5
 11 01 01   1 06  -29.7  0.296 -9.000 -9.000 -999.  387.     96.6  0.25   2.82
1.00    2.70   53.    9.1  274.2    5.5
 11 01 01   1 07  -24.0  0.239 -9.000 -9.000 -999.  282.     63.0  0.25   2.82
1.00    2.20   70.    9.1  274.2    5.5
 11 01 01   1 08   -8.4  0.138 -9.000 -9.000 -999.  127.     27.3  0.25   2.82
0.54    1.30   72.    9.1  275.4    5.5
 11 01 01   1 09   44.3  0.280  0.571  0.005  147.  356.    -43.5  0.25   2.82
0.32    2.20   67.    9.1  277.5    5.5
 11 01 01   1 10  122.7  0.264  0.952  0.005  247.  326.    -13.2  0.25   2.82
0.25    1.80   83.    9.1  279.9    5.5
 11 01 01   1 11  179.8  0.316  1.733  0.005 1017.  426.    -15.4  0.25   2.82
0.22    2.20   58.    9.1  282.0    5.5
 11 01 01   1 12  206.0  0.320  1.940  0.008 1244.  435.    -14.0  0.25   2.82
0.21    2.20  115.    9.1  283.1    5.5
 11 01 01   1 13  132.6  0.214  1.733  0.009 1377.  243.     -6.5  0.25   2.82
0.21    1.30  147.    9.1  284.2    5.5
 11 01 01   1 14  147.0  0.216  1.818  0.009 1431.  242.     -6.0  0.25   2.82
0.23    1.30  219.    9.1  284.9    5.5
 11 01 01   1 15  104.0  0.208  1.633  0.009 1468.  228.     -7.6  0.25   2.82
0.26    1.30  126.    9.1  285.4    5.5
 11 01 01   1 16   26.4  0.140  1.037  0.009 1477.  127.     -9.1  0.25   2.82
0.35    0.90  151.    9.1  284.9    5.5
 11 01 01   1 17   -9.0  0.137 -9.000 -9.000 -999.  121.     24.9  0.25   2.82
0.63    1.30   69.    9.1  283.1    5.5
 11 01 01   1 18  -33.4  0.342 -9.000 -9.000 -999.  481.    129.0  0.25   2.82
1.00    3.10   81.    9.1  281.4    5.5
 11 01 01   1 19  -33.6  0.342 -9.000 -9.000 -999.  481.    128.9  0.25   2.82
1.00    3.10   51.    9.1  279.9    5.5
 11 01 01   1 20  -23.6  0.239 -9.000 -9.000 -999.  287.     63.1  0.25   2.82
1.00    2.20   77.    9.1  278.8    5.5
 11 01 01   1 21  -18.5  0.194 -9.000 -9.000 -999.  205.     41.2  0.25   2.82
1.00    1.80   53.    9.1  277.5    5.5
 11 01 01   1 22  -23.7  0.239 -9.000 -9.000 -999.  281.     63.0  0.25   2.82
1.00    2.20   58.    9.1  277.5    5.5
 11 01 01   1 23  -18.5  0.194 -9.000 -9.000 -999.  205.     41.2  0.25   2.82
1.00    1.80   64.    9.1  277.5    5.5
 11 01 01   1 24   -4.5  0.094 -9.000 -9.000 -999.   74.     16.3  0.25   2.82
1.00    0.90   52.    9.1  277.0    5.5
```

```
 First hour of profile data
 YR MO DY HR HEIGHT F  WDIR    WSPD AMB_TMP sigmaA  sigmaW  sigmaV
 11 01 01 01    5.5 0 -999.  -99.00   276.5   99.0  -99.00  -99.00
 11 01 01 01    9.1 1   69.    1.80  -999.0   99.0  -99.00  -99.00

 F indicates top of profile (=1) or below (=0)
 *** AERMOD - VERSION  18081 ***   *** C:\LAKES\AERMOD VIEW\12979 HRA\12979
HRA.ISC                          ***        10/07/19
 *** AERMET - VERSION  16216 ***   ***
                         ***        12:30:42

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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                   *** THE ANNUAL AVERAGE CONCENTRATION    VALUES AVERAGED OVER   5
YEARS FOR SOURCE GROUP: ALL      ***
                                    INCLUDING SOURCE(S):     L0010054    , L0010055
 , L0010056    , L0010057    , L0010058    ,
                   L0010059    , L0010060    , L0010061    , L0010062    , L0010063
 , L0010064    , L0010065    , L0010066    ,
                   L0010067    , L0010068    , L0010069    , L0010070    , L0010071
 , L0010072    , L0010073    , L0010074    ,
                   L0010075    , L0010076    , L0010077    , L0010078    , L0010079
 , L0010080    , L0010081    ,  . . .      ,

                                              *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                         ** CONC OF DPM      IN MICROGRAMS/M**3
                    **

       X-COORD (M)   Y-COORD (M)        CONC                       X-COORD (M)
Y-COORD (M)        CONC
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
         458920.74    3769259.25        0.00017                      459018.38
3769263.05        0.00017
         458733.44    3769269.20        0.00017                      458720.71
3769197.21        0.00018
         459019.61    3769123.79        0.00019                      458973.19
3769029.73        0.00021
         459013.24    3769028.03        0.00021                      458855.41
3769009.75        0.00021
         458852.06    3769268.05        0.00017                      458788.31
3769192.45        0.00018
         458788.81    3769124.93        0.00019                      458790.81
3769058.92        0.00020
```

459010.37 3769168.95 0.00018 458566.06
3769009.29 0.00023
458466.89 3768943.88 0.00026 458341.69
3768940.37 0.00031
458227.75 3768902.39 0.00046 458465.48
3768749.76 0.00029
458458.45 3768844.71 0.00028 458634.28
3768806.03 0.00027
458727.12 3768796.18 0.00027 458949.37
3768810.25 0.00027
458904.36 3768801.11 0.00027 458902.95
3768763.13 0.00028
458824.88 3768810.25 0.00026 458925.46
3768668.88 0.00032
459859.75 3769493.13 0.00041 459075.33
3767903.79 0.00096
459026.95 3767887.43 0.00087 459024.46
3767912.30 0.00085
459020.38 3767820.00 0.00091 459059.88
3767820.00 0.00099
459011.80 3767785.70 0.00095 458882.45
3768032.81 0.00060
458879.15 3767925.23 0.00065 458878.49
3767752.30 0.00087
459163.63 3767664.71 0.00175 459314.93
3768240.37 0.00153
459366.28 3768244.16 0.00216 459251.66
3768457.31 0.00058
458960.62 3768474.04 0.00041 458145.25
3768929.43 0.00113
459288.67 3767572.17 0.00280 459048.59
3767565.49 0.00217
459845.09 3768155.99 0.00160 459773.52
3768189.50 0.00152
459706.00 3767631.63 0.00414 459777.58
3767572.47 0.00214
459827.23 3767577.43 0.00166 460487.85
3765187.49 0.00046
460662.82 3764922.19 0.00051 460775.69
3764395.46 0.00055
460660.31 3764313.87 0.00043 460503.14
3763956.20 0.00056
460385.95 3763929.98 0.00031 461435.96
3768466.45 0.00013
461455.27 3768667.31 0.00013 461627.17
3768632.55 0.00011
460439.37 3768481.44 0.00048 460925.90
3768484.11 0.00032

459760.90 3768457.89 0.00089 459775.14 3768792.40 0.00071
459764.00 3768252.90 0.00133 459754.91 3768366.53 0.00105
459028.04 3768255.00 0.00060 459022.73 3768335.85 0.00053
459017.99 3768397.97 0.00048 459289.10 3768382.70 0.00076
455259.97 3767561.88 0.00080 454577.08 3767572.16 0.00071
460420.87 3765277.24 0.00058 459830.21 3767366.89 0.00089
459834.30 3767222.84 0.00076 459834.30 3767102.69 0.00072
459777.75 3767490.27 0.00129 459832.74 3767491.66 0.00113
459778.50 3767474.98 0.00123 459694.73 3767772.23 0.01038
459759.08 3767778.01 0.00305 459764.60 3767808.21 0.00290

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE ANNUAL AVERAGE CONCENTRATION VALUES AVERAGED OVER 5 YEARS FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): L0010054 , L0010055 , L0010056 , L0010057 , L0010058 ,
L0010059 , L0010060 , L0010061 , L0010062 , L0010063 , L0010064 , L0010065 , L0010066 ,
L0010067 , L0010068 , L0010069 , L0010070 , L0010071 , L0010072 , L0010073 , L0010074 ,
L0010075 , L0010076 , L0010077 , L0010078 , L0010079 , L0010080 , L0010081 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF DPM IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC

- -

459756.19 3767744.86 0.00300 459699.98
3767666.43 0.00576
459748.24 3767728.33 0.00310 459766.78
3767724.08 0.00273
459769.91 3767690.12 0.00255 459728.35
3767743.30 0.00399
459756.28 3767653.47 0.00256 459692.61
3767912.54 0.00247
459692.59 3767834.80 0.00442 459692.34
3767847.84 0.00380
459691.99 3767881.61 0.00290 459691.99
3767898.80 0.00263
459759.55 3767913.95 0.00216 459761.92
3767838.95 0.00273
459723.65 3767837.29 0.00340 459725.77
3767914.20 0.00225
459723.99 3767897.02 0.00242 459759.55
3767899.39 0.00226
459722.21 3767880.43 0.00262 459761.32
3767881.02 0.00238
459692.44 3767867.51 0.00319 459721.03
3767867.98 0.00282
459761.92 3767865.61 0.00250 459722.81
3767855.54 0.00301
459761.92 3767856.13 0.00258 459850.86
3768287.57 0.00136
459846.64 3768070.05 0.00167 459568.75
3768253.74 0.00162
459435.21 3768342.22 0.00111 459348.41
3768200.40 0.00263
459347.37 3768100.56 0.00362 459348.41
3767957.04 0.00405
459348.41 3767914.41 0.00404 459346.33
3767865.53 0.00399
459345.29 3767792.73 0.00402 459345.29
3767730.33 0.00366
459343.21 3767656.49 0.00337 459042.65
3768195.20 0.00067
459036.41 3768104.72 0.00073 459098.81
3767966.40 0.00098
459096.73 3767862.41 0.00104 459252.73
3767805.21 0.00188
459234.01 3767642.97 0.00231 459197.61
3768155.68 0.00111
459220.49 3767912.33 0.00159 459301.61
3767726.17 0.00244
459874.06 3768498.69 0.00083 459863.45

3768679.15 0.00067
459860.48 3767884.60 0.00174 459866.87
3767960.60 0.00155
459846.27 3767816.42 0.00205 459853.38
3767721.24 0.00179
459854.09 3767640.98 0.00159 459957.78
3767756.76 0.00099
458958.16 3768317.77 0.00049 458628.40
3768319.37 0.00038
458751.66 3768039.23 0.00051 458754.86
3767907.97 0.00059
458750.06 3767784.71 0.00072 458535.55
3768143.29 0.00042
458556.36 3767949.59 0.00050 458557.96
3767719.08 0.00083

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE SUMMARY OF MAXIMUM ANNUAL RESULTS AVERAGED OVER 5 YEARS ***

** CONC OF DPM IN MICROGRAMS/M**3 **

GROUP ID	NETWORK AVERAGE CONC	RECEPTOR (XR, YR, ZELEV, ZHILL, ZFLAG)	OF TYPE	GRID-ID
ALL	1ST HIGHEST VALUE IS	0.01038 AT (459694.73, 3767772.23, 318.00, 675.00, 0.00)	DC	
	2ND HIGHEST VALUE IS	0.00576 AT (459699.98, 3767666.43, 319.67, 675.00, 0.00)	DC	
	3RD HIGHEST VALUE IS	0.00442 AT (459692.59, 3767834.80, 318.00, 675.00, 0.00)	DC	
	4TH HIGHEST VALUE IS	0.00414 AT (459706.00, 3767631.63, 320.18, 675.00, 0.00)	DC	
	5TH HIGHEST VALUE IS	0.00405 AT (459348.41, 3767957.04, 318.29, 675.00, 0.00)	DC	
	6TH HIGHEST VALUE IS	0.00404 AT (459348.41, 3767914.41,		

318.00,   675.00,   0.00) DC
          7TH HIGHEST VALUE IS   0.00402 AT (459345.29, 3767792.73,
317.00,   675.00,   0.00) DC
          8TH HIGHEST VALUE IS   0.00399 AT (459728.35, 3767743.30,
318.96,   675.00,   0.00) DC
          9TH HIGHEST VALUE IS   0.00399 AT (459346.33, 3767865.53,
317.98,   675.00,   0.00) DC
         10TH HIGHEST VALUE IS   0.00380 AT (459692.34, 3767847.84,
318.09,   675.00,   0.00) DC

 *** RECEPTOR TYPES: GC = GRIDCART
                      GP = GRIDPOLR
                      DC = DISCCART
                      DP = DISCPOLR

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

 *** Message Summary : AERMOD Model Execution ***

  --------- Summary of Total Messages --------

 A Total of   0 Fatal Error Message(s)
 A Total of   7 Warning Message(s)
 A Total of   838 Informational Message(s)

 A Total of   43848 Hours Were Processed

 A Total of   40 Calm Hours Identified

 A Total of   798 Missing Hours Identified (1.82 Percent)

    ******** FATAL ERROR MESSAGES ********
               *** NONE ***

    ********   WARNING MESSAGES   ********
 ME W186   5004   MEOPEN: THRESH_1MIN 1-min ASOS wind speed threshold used
      0.50
 ME W187   5004   MEOPEN: ADJ_U* Option for Stable Low Winds used in AERMET

 MX W438   8800   METQA: Convective Velocity Data Out-of-Range. KURDAT =

```
  12010216
 MX W438   11536        METQA: Convective Velocity Data Out-of-Range.  KURDAT =
  12042516
 MX W420   16779        METQA: Wind Speed Out-of-Range.   KURDAT =
  12113003
 MX W450   26305       CHKDAT: Record Out of Sequence in Meteorological File at:
  15010101
 MX W450   26305       CHKDAT: Record Out of Sequence in Meteorological File at:
1 year gap

    ***********************************
    *** AERMOD Finishes Successfully ***
    ***********************************
```

AVERAGE EMISSION FACTOR
SCAQMD 2022

Speed	LHD1	MHD	HHD
0	0.376835	0.110591	0.01646
5	0.033704	0.05133	0.04334
25	0.012224	0.025987	0.01821

Speed	**Weighted Average Emissions**
0	**0.09904**
5	**0.04353**
25	**0.01897**

Emission Rates - 2022 Emission Factors

Truck Emission Rates						
Source	Trucks Per Day	VMT [a] (miles/day)	Truck Emission Rate [b] (grams/mile)	Truck Emission Rate [b] (grams/idle-hour)	Daily Truck Emissions [c] (grams/day)	Modeled Emission Rates (g/second)
On-Site Idling Building 1	98			0.0990	2.43	2.809E-05
On-Site Idling Building 2	73			0.0990	1.81	2.092E-05
On-Site Travel Building 1	196	53.94	0.0435		2.35	2.717E-05
On-Site Travel Building 2	146	41.79	0.0435		1.82	2.105E-05
Off-Site Travel 20% Outbound to Dwy 4	34	6.16	0.0190		0.12	1.352E-06
Off-Site Travel 20% Inbound to Juniper Ave.	34	6.16	0.0190		0.12	1.353E-06
Off-Site Travel 30% Inbound/Outbound Dwy 1	103	37.81	0.0190		0.72	8.302E-06
Off-Site Travel 50% Inbound/Outbund to Dwy 2	171	21.41	0.0190		0.41	4.701E-06
Off-Site Travel 20% Inbound Dwy 4	34	2.57	0.0190		0.05	5.637E-07
Off-Site Travel 40% Outbound from Juniper Ave.	68	16.69	0.0190		0.32	3.666E-06
Off-Site Travel 14% on Sierra Av. To Armstrong/Valley Wy	48	141.88	0.0190		2.69	3.115E-05
Off-Site Travel 26% Sierra Av. To Santa Ana Av.	89	45.78	0.0190		0.87	1.005E-05
Off-Site Travel 8% on Santa Ana Av.	27	20.27	0.0190		0.38	4.451E-06
Off-Site Travel 5% Santa Ana Av.	17	12.67	0.0190		0.24	2.782E-06
Off-Site Travel 6% Slover Av.	21	15.21	0.0190		0.29	3.339E-06
Off-Site Travel 18% to I-10/Sierra Av.	62	49.84	0.0190		0.95	1.094E-05
Off-Site Travel 60% Sierra Av. To Citrus	205	164.27	0.0190		3.12	3.607E-05
Off-Site Travel 33% Citrus Av. to Santa Ana	113	58.91	0.0190		1.12	1.294E-05
Off-Site Travel 28% Citrus Av. to Slover	96	47.32	0.0190		0.90	1.039E-05
Off-Site Travel 22% I-10/Slover	75	22.82	0.0190		0.43	5.010E-06
Off-Site Travel 27% Jurupa Av. to Poplar Av.	92	45.32	0.0190		0.86	9.950E-06
Off-Site Travel 2% on Poplar	7	3.51	0.0190		0.07	7.696E-07
Off-Site Travel 25% Jurupa Av. to Beech Av.	86	41.78	0.0190		0.79	9.175E-06
Off-Site Travel 1% on Beech Av.	3	1.71	0.0190		0.03	3.762E-07
Off-Site Travel 24% on Jurupa Av.	82	105.24	0.0190		2.00	2.311E-05

[a] Vehicle miles traveled are for modeled truck route only.

[b] Emission rates determined using EMFAC 2017. Idle emission rates are expressed in grams per idle hour rather than grams per mile.

[c] This column includes the total truck travel and truck idle emissions. For idle emissions this column includes emissions based on the assumption that each truck idles for 15 minutes.

calendar_y	season_mo	sub_area	vehicle_class	fuel	temperatu	relative_hu	process	speed_tim	pollutant	emission_rate
2022	Annual	San Bernar	HHDT	Dsl	60	70	RUNEX	5	PM10	0.045082
2022	Annual	San Bernar	HHDT	Dsl	60	70	RUNEX	25	PM10	0.018946
2022	Annual	San Bernar	LHDT1	Dsl	60	70	RUNEX	5	PM10	0.070615
2022	Annual	San Bernar	LHDT1	Dsl	60	70	RUNEX	25	PM10	0.02561
2022	Annual	San Bernar	MHDT	Dsl	60	70	RUNEX	5	PM10	0.05814
2022	Annual	San Bernar	MHDT	Dsl	60	70	RUNEX	25	PM10	0.029434
2022	Annual	San Bernar	HHDT	Dsl			IDLEX		PM10	0.017119
2022	Annual	San Bernar	LHDT1	Dsl			IDLEX		PM10	0.789532
2022	Annual	San Bernar	MHDT	Dsl			IDLEX		PM10	0.125262

EMFAC2017 (v1.0.2) Emissions Inventory
Region Type: County
Region: SAN BERNARDINO
Calendar Year: 2022
Season: Annual
Vehicle Classification: EMFAC2007 Categories
Units: miles/day for VMT, trips/day for Trips, tons/day for Emissions, 1000 gallons/day for Fuel Consumption

Region	Calendar Y	Vehicle Ca	Model Yea	Speed	Fuel	Population
SAN BERN	2022	HHDT	Aggregate	Aggregate	GAS	8.109229
SAN BERN	2022	HHDT	Aggregate	Aggregate	DSL	29107.97
SAN BERN	2022	HHDT	Aggregate	Aggregate	NG	1162.564
SAN BERN	2022	LHDT1	Aggregate	Aggregate	GAS	25305.85
SAN BERN	2022	LHDT1	Aggregate	Aggregate	DSL	23106.86
SAN BERN	2022	MHDT	Aggregate	Aggregate	GAS	2378.587
SAN BERN	2022	MHDT	Aggregate	Aggregate	DSL	17930.27

HHDT% GAS/NG	0.038663
HHDT% DSL	0.961337
LHDT1% GAS	0.522711
LHDT1% DSL	0.477289
MHDT% GAS	0.117121
MHDT% DSL	0.882879

APPENDIX 2.2:

RISK CALCULATIONS

Table 1
Quantification of Carcinogenic Risks and Noncarcinogenic Hazards
-0.25 to 0 Age Bin Exposure Scenario

Source	Mass GLC		Weight Fraction	Contaminant	Carcinogenic Risk				Noncarcinogenic Hazards/ Toxicological Endpoints**								
					URF	CPF	DOSE	RISK	REL	RfD	RESP	CNS/PNS	CV/BL	IMMUN	KIDN	GI/LV	REPRO	EYES
	(ug/m^3)	(mg/m^3)			(ug/m^3)$^{-1}$	(mg/kg/day)$^{-1}$	(mg/kg-day)		(ug/m^3)	(mg/kg/day)								
(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(k)	(l)	(m)	(n)	(o)	(p)	(q)	(r)	(s)
	0.01038	1.04E-05	1.00E+00	Diesel Particulate	3.0E-04	1.1E+00	3.6E-06	1.1E-07	5.0E+00	1.4E-03	2.1E-03							
TOTAL								1.1E-07			2.1E-03	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00

** Key to Toxicological Endpoints

RESP	Respiratory System
CNS/PNS	Central/Peripheral Nervous System
CV/BL	Cardiovascular/Blood System
IMMUN	Immune System
KIDN	Kidney
GI/LV	Gastrointestinal System/Liver
REPRO	Reproductive System (e.g. teratogenic and developmental effects)
EYES	Eye irritation and/or other effects

Note: Exposure factors used to calculate contaminant intake

exposure frequency (days/year)	350
exposure duration (years)	0.25
inhalation rate (L/kg-day))	361
inhalation absorption factor	1
averaging time (years)	70
fraction of time at home	0.85
age sensitivity factor (age third trimester	10

Table 2
Quantification of Carcinogenic Risks and Noncarcinogenic Hazards
0-2 Age Bin Exposure Scenario

Source	Mass GLC		Weight Fraction	Contaminant	Carcinogenic Risk				Noncarcinogenic Hazards/ Toxicological Endpoints**								
					URF	CPF	DOSE	RISK	REL	RfD	RESP	CNS/PNS	CV/BL	IMMUN	KIDN	GI/LV	REPRO	EYES
	(ug/m^3)	(mg/m^3)			(ug/m^3)$^{-1}$	(mg/kg/day)$^{-1}$	(mg/kg-day)		(ug/m^3)	(mg/kg/day)								
(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(k)	(l)	(m)	(n)	(o)	(p)	(q)	(r)	(s)
	0.01038	1.04E-05	1.00E+00	Diesel Particulate	3.0E-04	1.1E+00	1.1E-05	2.8E-06	5.0E+00	1.4E-03	2.1E-03							
TOTAL								2.8E-06			2.1E-03	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00

** Key to Toxicological Endpoints

RESP	Respiratory System
CNS/PNS	Central/Peripheral Nervous System
CV/BL	Cardiovascular/Blood System
IMMUN	Immune System
KIDN	Kidney
GI/LV	Gastrointestinal System/Liver
REPRO	Reproductive System (e.g. teratogenic and developmental effects)
EYES	Eye irritation and/or other effects

Note: Exposure factors used to calculate contaminant intake

exposure frequency (days/year)	350
exposure duration (years)	2
inhalation rate (L/kg-day))	1090
inhalation absorption factor	1
averaging time (years)	70
fraction of time at home	0.85
age sensitivity factor (0 to 2 years old)	10

Table 3
Quantification of Carcinogenic Risks and Noncarcinogenic Hazards
2-16 Age Bin Exposure Scenario

Source	Mass GLC		Weight Fraction	Contaminant	Carcinogenic Risk				Noncarcinogenic Hazards/ Toxicological Endpoints**								
					URF	CPF	DOSE	RISK	REL	RfD	RESP	CNS/PNS	CV/BL	IMMUN	KIDN	GI/LV	REPRO	EYES
	(ug/m^3)	(mg/m^3)			(ug/m^3)$^{-1}$	(mg/kg/day)$^{-1}$	(mg/kg-day)		(ug/m^3)	(mg/kg/day)								
(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(k)	(l)	(m)	(n)	(o)	(p)	(q)	(r)	(s)
	0.01038	1.04E-05	1.00E+00	Diesel Particulate	3.0E-04	1.1E+00	5.7E-06	2.6E-06	5.0E+00	1.4E-03	2.1E-03							
TOTAL								2.6E-06			2.1E-03	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00

** Key to Toxicological Endpoints

RESP	Respiratory System
CNS/PNS	Central/Peripheral Nervous System
CV/BL	Cardiovascular/Blood System
IMMUN	Immune System
KIDN	Kidney
GI/LV	Gastrointestinal System/Liver
REPRO	Reproductive System (e.g. teratogenic and developmental effects)
EYES	Eye irritation and/or other effects

Note: Exposure factors used to calculate contaminant intake

exposure frequency (days/year)	350
exposure duration (years)	14
inhalation rate (L/kg-day))	572
inhalation absorption factor	1
averaging time (years)	70
fraction of time at home	0.72
age sensitivity factor (ages 2 to 16 years	3

Table 4
Quantification of Carcinogenic Risks and Noncarcinogenic Hazards
16-30 Age Bin Exposure Scenario

Source	Mass GLC		Weight Fraction	Contaminant	Carcinogenic Risk				Noncarcinogenic Hazards/ Toxicological Endpoints**								
					URF	CPF	DOSE	RISK	REL	RfD	RESP	CNS/PNS	CV/BL	IMMUN	KIDN	GI/LV	REPRO	EYES
	(ug/m^3)	(mg/m^3)			(ug/m^3)$^{-1}$	(mg/kg/day)$^{-1}$	(mg/kg-day)		(ug/m^3)	(mg/kg/day)								
(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(k)	(l)	(m)	(n)	(o)	(p)	(q)	(r)	(s)
	0.01038	1.04E-05	1.00E+00	Diesel Particulate	3.0E-04	1.1E+00	2.6E-06	4.0E-07	5.0E+00	1.4E-03	2.1E-03							
TOTAL								4.0E-07			2.1E-03	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
								0.40										

** Key to Toxicological Endpoints

RESP	Respiratory System
CNS/PNS	Central/Peripheral Nervous System
CV/BL	Cardiovascular/Blood System
IMMUN	Immune System
KIDN	Kidney
GI/LV	Gastrointestinal System/Liver
REPRO	Reproductive System (e.g. teratogenic and developmental effects)
EYES	Eye irritation and/or other effects

Note: Exposure factors used to calculate contaminant intake

exposure frequency (days/year)	350
exposure duration (years)	14
inhalation rate (L/kg-day))	261
inhalation absorption factor	1
averaging time (years)	70
fraction of time at home	0.73
age sensitivity factor (ages 16 to 30 years old)	1

Total Risk for All Age Bins (per million) 5.86

Table 5
Quantification of Carcinogenic Risks and Noncarcinogenic Risks
25-Year Worker Exposure Scenario

	Source	Mass GLC		Weight Fraction	Contaminant	Carcinogenic Risk				Noncarcinogenic Hazards/ Toxicological Endpoints**									
						URF	CPF	DOSE	RISK	REL	RfD	RESP	CNS/PNS	CV/BL	IMMUN	KIDN	GI/LV	REPRO	EYES
		(ug/m^3)	(mg/m^3)			($ug/m^3)^{-1}$	$(mg/kg/day)^{-1}$	(mg/kg-day)		(ug/m^3)	(mg/kg/day)								
	(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(k)	(l)	(m)	(n)	(o)	(p)	(q)	(r)	(s)
1	Diesel Particulates	4.00E-03	4.00E-06	1.00E+00	Diesel Particulate	3.0E-04	1.1E+00	6.3E-07	2.4E-07	5.0E+00	1.4E-03	8.0E-04							
	TOTAL								2.5E-07			8.4E-04	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
									0.25										

** Key to Toxicological Endpoints

RESP	Respiratory System
CNS/PNS	Central/Peripheral Nervous System
CV/BL	Cardiovascular/Blood System
IMMUN	Immune System
KIDN	Kidney
GI/LV	Gastrointestinal System/Liver
REPRO	Reproductive System (e.g. teratogenic and developmental effects)
EYES	Eye irritation and/or other effects

Note: Exposure factors used to calculate contaminant intake

exposure frequency (days/year)	250
exposure duration (years)	25
inhalation rate (L/kg-day))	230
inhalation absorption factor	1
averaging time (years)	70

Table 6
Quantification of Carcinogenic Risks and Noncarcinogenic Risks
9-Year School Child Exposure Scenario

	Source	Mass GLC		Weight Fraction	Contaminant	Carcinogenic Risk				Noncarcinogenic Hazards/ Toxicological Endpoints**									
						URF	CPF	DOSE	RISK	REL	RfD	RESP	CNS/PNS	CV/BL	IMMUN	KIDN	GI/LV	REPRO	EYES
		(ug/m^3)	(mg/m^3)			($ug/m^3)^{-1}$	$(mg/kg/day)^{-1}$	(mg/kg-day)		(ug/m^3)	(mg/kg/day)								
	(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(k)	(l)	(m)	(n)	(o)	(p)	(q)	(r)	(s)
1	Diesel Particulates	4.00E-04	4.00E-07	1.00E+00	Diesel Particulate	3.0E-04	1.1E+00	1.1E-07	4.6E-08	5.0E+00	1.4E-03	8.0E-05							
	TOTAL								6.6E-08			1.2E-04	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
									0.07										

** Key to Toxicological Endpoints

RESP	Respiratory System
CNS/PNS	Central/Peripheral Nervous System
CV/BL	Cardiovascular/Blood System
IMMUN	Immune System
KIDN	Kidney
GI/LV	Gastrointestinal System/Liver
REPRO	Reproductive System (e.g. teratogenic and developmental effects)
EYES	Eye irritation and/or other effects

Note: Exposure factors used to calculate contaminant intake

exposure frequency (days/year)	180
exposure duration (years)	9
inhalation rate (L/kg-day))	572
inhalation absorption factor	1
averaging time (years)	70
age sensitivity factor (ages 4-13)	3

URBAN CROSSROADS

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May 4, 2020

SUBJECT: FONTANA FOOTHILLS COMMERCE CENTER AIR QUALITY, GREENHOUSE GAS AND HEALTH RISK ASSESSMENT RESPONSE TO COMMENTS LETTER

Urban Crossroads, Inc. is pleased to submit this Response to Comments for the Fontana Foothills Commerce Center ("Project"), which is in the City of Fontana. This letter has been prepared in response to the April 7th, 2020 comments prepared by Michael Baker on the Air Quality, Greenhouse Gas, and Health Risk Assessment reports prepared by Urban Crossroads, Inc.

AIR QUALITY (AQ)

RESPONSE 1: P NA

It is our understanding that future tenants for the Project are unknown at this time and that the Project design does not anticipate cold storage uses. The AQ report, consistent with the traffic study evaluates the project as a high-cube transload and short -term warehouse (without cold storage).

RESPONSE 2: PNA

The commenter is recommending that additional mitigation measures should be considered and included. None of the recommended mitigation measures would have a measurable reduction in emissions from operational activity (the potential reductions associated with the measures are not quantifiable). Specific responses to the three recommended measures are as follows:

- The commenter suggests that check-in gates be placed well inside the Project site to prevent truck queuing and idling on public streets. The Project has already been designed to ensure that trucks will not queue on public streets.
- Trucks accessing the Project site are required to use designated truck routes. Truck traffic, including trucks traveling to and from the Project site, are required to use legal truck routes and are restricted from using other routes, subject to enforcement penalties (fines). For these reasons, the commenter's suggestion is accommodated and no revisions to the DEIR are warranted.
- The commenter requests that the DEIR be revised to include a mitigation measure that prohibits trucks from parking in residential areas overnight. The Project's design provides off-street parking on the Project site. It is not reasonably foreseeable that vehicles accessing the Project site would park in residential areas overnight.

RESPONSE 3: P2

Comment noted, MM AQ-1 has been revised as follows:

MM AQ-1

During the site preparation phase of construction activity, all off-road construction equipment equal to or greater than 150 horsepower shall be California Air Resources Board (CARB) Tier 3 Compliant or better. Additionally, all construction equipment shall be tuned and maintained in accordance with the manufacturer's specifications.

RESPONSE 4: P3

Comment noted, MM AQ-4 and MM AQ-5 have been revised as follows, consistent with other recent projects approved by the City of Fontana:

MM AQ-4

Prior to the issuance of occupancy permits the Project, the Project Applicant or their successor in interest shall provide the City of Fontana with an information packet that will be provided to future building occupants regarding the grants available from the Carl Moyer Memorial Air Quality Standards Attainment Program for energy efficiency improvement features – including truck modernization, retrofits, and/or aerodynamic kits and low rolling resistance tires – and the resulting benefits to air quality.

MM AQ-5

Prior to the issuance of building permits for the Project, the City of Fontana shall ensure that 1) the parking lot striping and security gating plan allows for adequate truck stacking at gates to prevent queuing of trucks outside the property; 2) preferential parking locations are identified on the respective site for carpool, vanpool, and clean air vehicles as required by the California Green Building Standards Code (CalGreen); and 3) secure, weather protected bicycle parking is provided for building employees as required by CalGreen. The City of Fontana shall ensure these design measures are in place prior to issuance of an occupancy permit.

RESPONSE 5: P44

Comment noted. The TIA only publishes/provides weekday daily trip rates, the weekend trip rates utilized in the analysis are based on data published by the Institute of Transportation Engineers. The discussion in this section has been revised to clarify this.

RESPONSE 6: P47

Comment noted, a new section 3.11 *Health Impacts Pursuant to Friant Ranch* has been added to the report and addresses the potential impacts as they relate to Friant Ranch.

RESPONSE 7: P51

Comment noted, the receptor distance for location R3 has been revised consistent with the noise impact analysis report, which now identifies the nearest impacted location, located approximately 15 feet east of the Project site.

RESPONSE 8: P60

Comment noted, this sentence has been revised accordingly.

GREENHOUSE GASES (GHG)

RESPONSE 1: P NA

Table ES-1 and Impact GHG-1 in the GHG report already identifies a significant and unavoidable impact with both impact statements. The discussion on Page 60 of the GHG report has been revised to identify a significant and unavoidable impact.

RESPONSE 2: P1

Comment noted, the revision to reference the 2018 LCFS Amendments has been made.

RESPONSE 3: P2

Comment noted, the revision to the updated RPS has been made.

RESPONSE 6: P56

Comment noted, this text has been revised and these statements have been removed.

HEALTH RISK ASSESSMENT (HRA)

RESPONSE 1: P 2

The daily breathing rates for age bins 2 to 16 and 16 to 30 for the 30 year exposure duration are based on published data from the SCAQMD in their Permit Application Package "N", Table 9.1 *Residential Combined Exposure Factor (CEF)*. This is based on SCAQMD's use of CARB's Risk Management Policy (RMP). As noted in SCAQMD's Risk Assessment Guidance for Rule 1401[1] (see Page 6), for residential exposures, CARB's RMP recommends using the high end DBR (e.g., 95th percentile) for children from the third trimester through age 2, and 80th percentile DBR for all other ages. As such, no changes are required.

[1] http://www.aqmd.gov/docs/default-source/permitting/rule-1401-risk-assessment/attachmentn-v8-1.pdf?sfvrsn=4

RESPONSE 2: P 4

At the time the HRA was prepared (October 2019), the Urban Crossroads, Inc. TIA was not prepared and the HRA was based on data provided by EPD Solutions. Notwithstanding, the number of truck trips 342 (two-way) is consistent between both the Urban Crossroads TIA and the data provided by EPD Solutions. As such, the references in the HRA have been updated to reference the Urban Crossroads TIA.

RESPONSE 3: P10

See Response 2: P4, above.

RESPONSE 4: P17

See Response 1: P2, above.

RESPONSE 5: P17

The worker age group of 16-41 is also based on published data from SCAQMD in their Permit Application Package "M", Table 4.2 D *Worker Combined Exposure Factor (CEF)*.

RESPONSE 6: P17

Comment noted, the age range for Table 2-6 has been revised, however no changes to the breathing rates have been made, see Response 1: P2 and Response 5:P17 above.

RESPONSE 7: P18

The source for this information has been added to the report (see Reference 9 in Section 3). The information is from the National Safety Council *Injury Fact Sheet:* *https://www.nsc.org/work-safety/tools-resources/injury-facts/chart*

RESPONSE 8: APPENDIX 2.1, PDF PAGE 315

Comment noted, the EMFAC2017 output sheets have been reprinted to fit on one page, as requested.

RESPONSE 9: APPENDIX 2.1, PDF PAGE 319

See response to comments above, no changes to the breathing rates are necessary, and as such, no changes to the risk calculation values occur.