

Appendix B: Air Quality and Greenhouse Gas Emissions Report

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Air Quality and Greenhouse Gas Emissions Analysis Report Barton Road Logistics Center Project City of Colton, San Bernardino County, California

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ACRONYMS AND ABBREVIATIONS

°F	degrees Fahrenheit
µg/m ³	micrograms per cubic meter
AB	Assembly Bill
AERMOD	American Meteorological Society Regulatory Model
AQMP	Air Quality Management Plan
ARB	California Air Resources Board
BAU	Business as Usual
BMP	Best Management Practice
CAAQS	California Ambient Air Quality Standards
CalEEMod	California Emissions Estimator Model
CEC	California Energy Commission
CEQA	California Environmental Quality Act
CO	carbon monoxide
CO ₂	carbon dioxide
CO ₂ e	carbon dioxide equivalent
CPUC	California Public Utility Commission
DPM	diesel particulate matter
EMFAC	Emission Factor
EPA	United States Environmental Protection Agency
GHG	greenhouse gas
HAP	Hazardous Air Pollutant
HFC	hydrofluorocarbon
HI	hazard index
HRA	Health Risk Assessment
IPCC	United Nations Intergovernmental Panel on Climate Change
ITE	Institute of Transportation Engineers
LCFS	Low Carbon Fuel Standard
LEV	Low Emission Vehicle
LST	localized significance threshold
MIR	Maximum Impacted Sensitive Receptor
MMT	million metric tons
mph	miles per hour
MWh	megawatt-hour
NAAQS	National Ambient Air Quality Standards
NO _x	oxides of nitrogen

NO ₂	nitrogen dioxide
OAL	Office of Administrative Law
OEHHA	California Office of Environmental Health Hazards Assessment
PFC	perfluorocarbons
PM	particulate matter
PM ₁₀	particulate matter less than 10 microns in diameter
PM _{2.5}	particulate matter less than 2.5 microns in diameter
ppb	parts per billion
ppm	parts per million
REL	Reference Exposure Level
RPS	Renewables Portfolio Standard
SB	Senate Bill
SCAG	Southern California Association of Governments
SCAQMD	South Coast Air Quality Management District
SF ₆	sulfur hexafluoride
SIP	State Implementation Plan
SoCAB	South Coast Air Basin
SO _x	sulfur oxides
SO ₂	sulfur dioxide
SRA	Source Receptor Area
TAC	toxic air contaminant
TIA	Traffic Impact Analysis
TRU	Transportation Refrigeration Units
VMT	Vehicle Miles Traveled
VOC	volatile organic compound
ZEV	Zero Emission Vehicle

SECTION 1: EXECUTIVE SUMMARY

1.1 - Purpose and Methods of Analysis

This Air Quality and Greenhouse Gas (GHG) Emissions Analysis Report was prepared to evaluate whether the estimated criteria air pollutant, ozone precursor, toxic air contaminant (TAC), and/or GHG emissions generated from construction and/or operation of the Barton Road Logistics Center Project (proposed project) would cause significant impacts to air resources in the project area. The respective analyses were conducted within the context of the California Environmental Quality Act (CEQA) (California Public Resources Code [PRC] § 21000, *et seq.*). The analysis methodology follows South Coast Air Quality Management District (SCAQMD) recommendations and City of Colton recommendations for the quantification of emissions and evaluation of potential impacts on air resources.

1.2 - Project Summary

1.2.1 - Site Location

The City of Colton is in southwestern San Bernardino County, California, approximately 57 miles east of Los Angeles, in the Inland Empire region of Southern California. The City is bordered to the east by the City of San Bernardino and the City of Loma Linda; to the south by the City of Grand Terrace, the City of Riverside, and unincorporated Riverside County; to the west by the City of Rialto; and to the north by the City of San Bernardino (Exhibit 1). Regional access to the site is provided via Interstate 215 (I-215) at the Barton Road and De Berry Street exits. Local access to the site is provided via Barton Road and De Berry Street.

The 45.52-acre project site is part of a larger 54.82-acre site, and includes the following addresses: 21700 Barton Road (three buildings), 275 De Berry Street, 280 De Berry Street, and 375 De Berry Street (Exhibit 2). The Assessor's Parcel Numbers (APNs) associated with the site include the following:

- APNs 0275-223-23, -44, -45, and -46,
- APNs 1167-051-15, -16, -18, -19, and -20,
- APN 1167-061-06
- APNs 1167-131-03 and -04
- APN 1167-151-03

1.2.2 - Project Description

The proposed project includes demolition of four existing industrial buildings totaling 612,515 square feet and the demolition of the existing 46,920-square-foot office building. The total building square footage that would be demolished is 659,435 square feet. The total amount of hardscape that would be demolished or removed, including asphalt concrete, concrete pavement, and concrete building slab, is 1,603,931 square feet.

The proposed project would involve the construction of two state-of-the-art speculative concrete tilt-up industrial warehouse logistics facilities with a total square footage of 960,040 square feet (Exhibit 3). Building 1 would be 540,920 square feet with 336,662 square feet of non-asphalt paving¹ and would occupy an approximately 26.23-acre site north of Barton Road. Building 2 would be 419,920 square feet with 491,211 square feet of non-asphalt paving and would occupy an approximately 17.62-acre site. The project thus results in a net increase of 300,605 square feet of building space when compared to existing conditions. The buildings are proposed as speculative ambient temperature dry warehouse facilities. The total import volume would be 1,238 cubic yards, which would apply to Building 1. There would be no export volume for Building 1 or Building 2.

One existing building at 280 De Berry Street would remain. Proposed improvements to this site would be limited to improvements to the entrance and drive aisle and relocation of the guard shack to allow for increased vehicle queueing on that site. No building improvements are proposed.

1.3 - Summary of Analysis Results

The following is a summary of the analysis results. As shown below, the proposed project would result in less than significant impacts with mitigation for all air quality and GHG impact criteria analyzed.

- Impact AIR-1:** The project would not conflict with or obstruct implementation of the applicable air quality plan.
Less than significant impact with mitigation.
- Impact AIR-2:** The project would not result in a cumulatively considerable net increase of any criteria pollutant for which the project region is non-attainment under an applicable federal or state ambient air quality.
Less than significant impact with mitigation.
- Impact AIR-3:** The project would not expose sensitive receptors to substantial pollutant concentrations.
Less than significant impact.
- Impact AIR-4:** The project would not result in other emissions (such as those leading to odors) adversely affecting a substantial number of people.
Less than significant impact.
- Impact GHG-1:** The project would generate direct and indirect greenhouse gas emissions; however, these emissions would not result in a significant impact on the environment.
Less than significant impact.
- Impact GHG-2:** The project would not conflict with any applicable plan, policy or regulation of an agency adopted to reduce the emissions of GHG.
Less than significant impact with mitigation.

¹ Includes sidewalks, pedestrian paths, and cement areas.

1.4 - Mitigation Measures Applied to the Proposed Project

Air Quality

- MM AIR-1** The following measures shall be applied during construction of the proposed project:
- Use super-compliant architectural coatings for all on-site architectural coating activities. These coatings are defined as those with volatile organic compound Volatile Organic Compound (VOC) less than 10 grams per liter. South Coast Air Quality Management District (SCAQMD) provides a list of manufacturers that provide this type of coating.
 - Keep lids closed on all paint containers contained on-site when not in use to prevent VOC emissions and excessive odors.
 - Use compliant low VOC cleaning solvents to clean paint application equipment.
 - Keep all paint and solvent laden rags in sealed containers to prevent VOC emissions.

Greenhouse Gas Emissions

- MM GHG-1a** Prior to issuance of building permits, the applicant shall provide documentation to the City of Colton Planning Department demonstrating that the proposed project will implement project features that will achieve at least 75 points from the City of Colton's Greenhouse Gas Emissions Screening Tables or achieve equivalent emission reductions from other measures approved by the City of Colton.
- MM GHG-1b** Prior to issuance of building permits, the applicant shall provide documentation to the City of Colton Planning Department demonstrating that the project design provides electrical vehicle charging infrastructure. The project shall be designed to incorporate a minimum of six percent of all vehicle parking spaces (including for trucks) with electric vehicle charging spaces and minimum eight percent of all spaces designated for clean air vehicles, consistent with the applicable California Green Building Standards Code Nonresidential Mandatory Measures (Section 5.106). Electric vehicle charging spaces must provide electrical vehicle charging infrastructure to support future installation of electric vehicle supply equipment and shall meet the design space requirements of California Green Building Standards Code Section 5.106.5.3.2.
- MM GHG-1c** Prior to issuance of building permits, the applicant shall provide documentation to the City of Colton Planning Department demonstrating that the project design provide infrastructure to support use of electric-powered forklifts and/or other interior vehicles. All buildings shall be designed to provide infrastructure to support use of electric-powered forklifts and/or other interior vehicles.
- MM GHG-1d** Prior to issuance of building permits, the applicant shall provide documentation to the City of Colton Planning Department demonstrating that the project design provides infrastructure to support use of exterior electric yard trucks and electric on-site vehicles. All buildings shall be designed to provide infrastructure to support use of electric exterior yard trucks and on-site vehicles. The operation of yard trucks that are used to move trailers and on-site vehicles within the project site shall be powered by electricity unless the project applicant can reasonably demonstrate that specific equipment is not available for a particular task.

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Source: Census 2000 Data, The CaSIL

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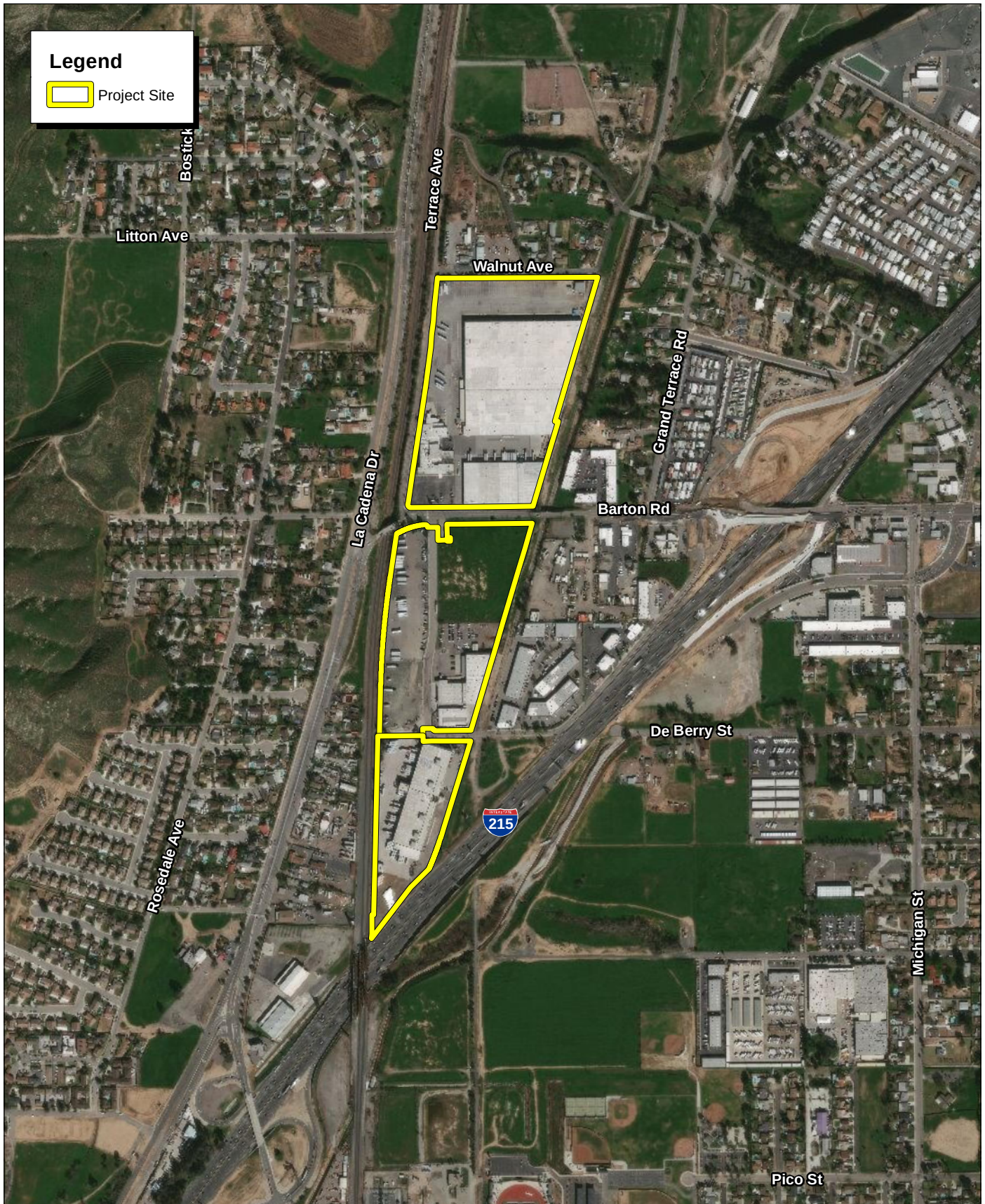
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Exhibit 1 Regional Location Map

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CITY OF COLTON
BARTON ROAD LOGISTICS CENTER
AIR QUALITY AND GREENHOUSE GAS EMISSIONS ANALYSIS REPORT

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Source: ESRI Aerial Imagery.

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Exhibit 2 Local Vicinity Map Aerial Base

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Source: HPA, Inc. Architecture, 7/3/2019.

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Exhibit 3 Overall Site Plan

CITY OF COLTON
BARTON ROAD LOGISTICS CENTER
AIR QUALITY AND GREENHOUSE GAS EMISSIONS ANALYSIS REPORT

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SECTION 2: AIR QUALITY SETTING

2.1 - Environmental Setting

The proposed project is within the South Coast Air Basin (SoCAB or air basin). Regional and local air quality are impacted by topography, dominant airflows, atmospheric inversions, location, season, and time of day. The following section describes these conditions as they pertain to the SoCAB.

2.1.1 - South Coast Air Basin

The proposed project is within the City of Colton, which is located in the southwestern portion of San Bernardino County. This portion San Bernardino County is within the SoCAB. To the west of the air basin is the Pacific Ocean. To the north and east of the air basin are the San Gabriel, San Bernardino, and San Jacinto Mountains, while the southern limit of the air basin is the San Diego County line. The air basin consists of Orange County, all of Los Angeles County except for the Antelope Valley, the non-desert portion of western San Bernardino County, and the western and Coachella Valley portions of Riverside County. The air quality in the air basin is impacted by dominant airflows, topography, atmospheric inversions, location, season, and time of day.

Dominant airflows provide the driving mechanism for transport and dispersion of air pollution. The mountains surrounding the region form natural horizontal barriers to the dispersion of air contaminants. Typically, air flows from the ocean eastward to the inland areas of the air basin during the afternoon (a sea breeze) and westward from the inland areas to the coastal regional at night (a land breeze). Air pollution created in coastal areas and around San Bernardino County is transported inland until it reaches the mountains where the combination of mountains and temperature inversion layers² generally prevent further dispersion. This poor ventilation results in a gradual degradation of air quality from the coastal areas to inland areas. Air stagnation may occur during the early evening and early morning periods during the transition between day and nighttime flows. The region also periodically experiences periods of hot, dry winds from the desert, known as Santa Ana winds. If the Santa Ana winds are strong, they can surpass the sea breeze, which blows from the ocean to the land, and carry the suspended dust and pollutants out to the ocean. If the winds are weak, they are opposed by the sea breeze and cause stagnation, resulting in high pollution events.

The annual average temperature varies little throughout much of the SoCAB, ranging from the low to middle 60s, measured in degrees Fahrenheit (°F). The average temperatures in the project area typically range from 30°F to 90°F.³ The majority of the annual rainfall in the area occurs between November and April. The average annual precipitation recorded at the Cooperative Observer Program Station in nearby Fontana, California was 15.3 inches.⁴

² In meteorology, an inversion, also known as a temperature inversion, is a deviation from the normal change of an atmospheric property with altitude. It almost always refers to an inversion of the thermal lapse rate. Normally, air temperature decreases with an increase in altitude. During an inversion, warmer air is held above cooler air; the normal temperature profile with altitude is inverted. Inversion layers form a vertical cap limiting the vertical dispersion of air pollutants.

³ Western Regional Climate Center (WRCC). 2016. Website: <http://www.wrcc.dri.edu/>. Accessed December 7, 2018.

⁴ Ibid.

2.2 - Regulatory Setting

Air pollutants are regulated to protect human health and for secondary effects such as visibility and building soiling. The Clean Air Act of 1970 tasks the United States Environmental Protection Agency (EPA) with setting air quality standards. The State of California also sets air quality standards that are, in some cases, more stringent than federal standards and address additional pollutants. The following section describes these federal and State standards and the health effects of the regulated pollutants.

2.2.1 - Clean Air Act

Congress established much of the basic structure of the Clean Air Act in 1970 and made major revisions in 1977 and 1990. Six common air pollutants (also known as criteria pollutants and listed below) are addressed in the Clean Air Act. The EPA calls these pollutants criteria air pollutants because it regulates them by developing human health-based and environmentally based criteria (science-based guidelines) for setting permissible levels. The set of limits based on human health are called primary standards. Primary federal standards are the levels of air quality necessary, with an adequate margin of safety, to protect the public health. Another set of limits intended to prevent environmental and property damage are called secondary standards.⁵ The federal standards are called National Ambient Air Quality Standards (NAAQS). The air quality standards provide benchmarks for determining whether air quality is healthy at specific locations and whether development activities will cause or contribute to a violation of the standards. The criteria pollutants are:

- Ozone
- Nitrogen dioxide (NO₂)
- Lead
- Particulate matter (PM₁₀ and PM_{2.5})
- Carbon monoxide (CO)
- Sulfur dioxide (SO₂)

The federal standards were set to protect public health, including that of sensitive individuals; thus, the EPA is tasked with updating the standards as more medical research is available regarding the health effects of the criteria pollutants.

2.2.2 - California Clean Air Act

The California Legislature enacted the California Clean Air Act (CCAA) in 1988 to address air quality issues of concern not adequately addressed by the federal Clean Air Act at the time. California's air quality problems were and continue to be some of the most severe in the nation and required additional actions beyond the federal mandates. The California Air Resources Board (ARB) administers California Ambient Air Quality Standards (CAAQS) for the 10 air pollutants designated in the CCAA. The 10 State air pollutants are the six federal standards listed above as well visibility-reducing particulates, hydrogen sulfide, sulfates, and vinyl chloride. It should be noted that the EPA recently rescinded California's waiver for its GHG and Zero Emission Vehicle (ZEV) mandates that were more stringent than other federal regulations implementing the Clean Air Act;⁶ however, all ARB standards are still in effect at the time of this writing.

⁵ United States Environmental Protection Agency (EPA). 2016. NAAQS Table. December 20. Website: <https://www.epa.gov/criteria-air-pollutants/naaqs-table>. Accessed August 27, 2019.

⁶ Beveridge & Diamond Professional Corporation. 2019. EPA Rescinds California's Authority to Regulate Vehicle Tailpipe Greenhouse Gas Emissions and to Implement a Zero-Emission Vehicle Program. September 23. Website: <https://www.bdlaw.com/publications/epa-rescinds-californias-authority-to-regulate-vehicle-tailpipe-greenhouse-gas-emissions-and-to-implement-a-zero-emission-vehicle-program/>. Accessed June 22, 2020.

2.2.3 - Toxic Air Contaminants

A TAC is defined as an air pollutant that may cause or contribute to an increase in mortality or serious illness, or that may pose a hazard to human health. TACs are usually present in minute quantities in the ambient air; however, their high toxicity or health risk may pose a threat to public health even at low concentrations. There are no ambient air quality standards for TAC emissions. TACs are regulated in terms of health risks to individuals and populations exposed to the pollutants. The 1990 Clean Air Act Amendments significantly expanded the EPA's authority to regulate Hazardous Air Pollutants (HAPs). Section 112 of the Clean Air Act lists 187 HAPs to be regulated by source category. Authority to regulate these pollutants was delegated to individual states. The ARB and local air districts regulate TACs and HAPs in California.

The California Almanac of Emissions and Air Quality—2009 Edition presents the relevant concentration and cancer risk data for the 10 TACs that pose the most substantial health risk in California based on available data.⁷ The 10 TACs are acetaldehyde, benzene, 1,3-butadiene, carbon tetrachloride, hexavalent chromium, para-dichlorobenzene, formaldehyde, methylene chloride, perchloroethylene, and diesel particulate matter (DPM).

Some studies indicate that DPM poses the greatest health risk among the TACs listed above. A 10-year research program⁸ demonstrated that DPM from diesel-fueled engines is a human carcinogen and that chronic (long-term) inhalation exposure to DPM poses a chronic health risk. In addition to increasing the risk of lung cancer, exposure to diesel exhaust can have other health effects. Diesel exhaust can irritate the eyes, nose, throat, and lungs, and it can cause coughs, headaches, lightheadedness, and nausea. Diesel exhaust is a major source of fine particulate pollution as well, and studies have linked elevated particle levels in the air to increased hospital admissions, emergency room visits, asthma attacks, and premature deaths among those suffering from respiratory problems.

DPM differs from other TACs in that it is not a single substance, but a complex mixture of hundreds of substances. Although DPM is emitted by diesel-fueled, internal combustion engines, the composition of the emissions varies depending on engine type, operating conditions, fuel composition, lubricating oil, and whether an emission control system is present. Unlike the other TACs, however, no ambient monitoring data are available for DPM because no routine measurement method currently exists. The ARB has made preliminary concentration estimates based on a DPM exposure method. This method uses the ARB emissions inventory's PM₁₀ database, ambient PM₁₀ monitoring data, and the results from several studies to estimate concentrations of DPM.

2.2.4 - Air Pollutant Description and Health Effects

The federal and State ambient air quality standards, relevant effects, properties, and sources of the air pollutants are summarized in Table 1.

⁷ California Air Resources Board (ARB). 2009. The California Almanac of Emissions and Air Quality—2009 Edition. Website: <https://www.arb.ca.gov/aqd/almanac/almanac09/almanac2009.all.pdf>.

⁸ California Air Resources Board (ARB). 1998. The Toxic Air Contaminant Identification Process: Toxic Air Contaminant Emissions from Diesel-fueled Engines. Website: www.arb.ca.gov/toxics/dieseltac/factsht1.pdf.

Table 1: Description of Air Pollutants

Air Pollutant	Averaging Time	California Standard	Federal Standard	Most Relevant Effects from Pollutant Exposure	Properties	Sources
Ozone	1 Hour	0.09 ppm	—	Irritate respiratory system; reduce lung function; breathing pattern changes; reduction of breathing capacity; inflame and damage cells that line the lungs; make lungs more susceptible to infection; aggravate asthma; aggravate other chronic lung diseases; cause permanent lung damage; some immunological changes; increased mortality risk; vegetation and property damage.	Ozone is a photochemical pollutant as it is not emitted directly into the atmosphere but is formed by a complex series of chemical reactions between volatile VOC, nitrogen oxides (NO _x), and sunlight. Ozone is a regional pollutant that is generated over a large area and is transported and spread by the wind. Hot, sunny, and calm weather conditions are favorable to ozone formation.	Ozone is a secondary pollutant; thus, it is not emitted directly into the lower level of the atmosphere. The primary sources of ozone precursors (VOC and NO _x) are mobile sources (on-road and off-road vehicle exhaust).
	8 Hour	0.070 ppm	0.070 ppm ^f			
CO	1 Hour	20 ppm	35 ppm	Ranges depend on exposure: slight headaches; nausea; aggravation of angina pectoris (chest pain) and other aspects of coronary heart disease; decreased exercise tolerance in persons with peripheral vascular disease and lung disease; impairment of central nervous system functions; possible increased risk to fetuses; death.	CO is a colorless, odorless, toxic gas. CO is somewhat soluble in water; therefore, rainfall and fog can suppress CO conditions. CO enters the body through the lungs, dissolves in the blood, replaces oxygen as an attachment to hemoglobin, and reduces available oxygen in the blood.	CO is produced by incomplete combustion of carbon-containing fuels (e.g., gasoline, diesel fuel, and biomass). Sources include motor vehicle exhaust, industrial processes (metals processing and chemical manufacturing), residential wood burning, and natural sources.
	8 Hour	9.0 ppm	9 ppm			
NO ₂ ^b	1 Hour	0.18 ppm	0.100 ppm	Potential to aggravate chronic respiratory disease and respiratory symptoms in sensitive groups; risk to public health implied by pulmonary and extra-pulmonary biochemical and cellular changes and pulmonary structural changes; contribution to atmospheric discoloration; increased visits to hospital for respiratory illnesses.	During combustion of fossil fuels, oxygen reacts with nitrogen to produce nitrogen oxides—NO _x (NO, NO ₂ , NO ₃ , N ₂ O, N ₂ O ₃ , N ₂ O ₄ , and N ₂ O ₅). NO _x is a precursor to ozone, PM ₁₀ , and PM _{2.5} formation. NO _x can react with compounds to form nitric acid and related small particles and result in PM-related health effects.	NO _x is produced in motor vehicle internal combustion engines and fossil fuel-fired electric utility and industrial boilers. NO ₂ forms quickly from NO _x emissions. NO ₂ concentrations near major roads can be 30 to 100 percent higher than those at monitoring stations.
	Annual	0.030 ppm	0.053 ppm			

Air Pollutant	Averaging Time	California Standard	Federal Standard	Most Relevant Effects from Pollutant Exposure	Properties	Sources
SO ₂ ^c	1 Hour	0.25 ppm	0.075 ppm	Bronchoconstriction accompanied by symptoms which may include wheezing, shortness of breath and chest tightness, during exercise or physical activity in persons with asthma. Some population-based studies indicate that the mortality and morbidity effects associated with fine particles show a similar association with ambient SO ₂ levels. It is not clear whether the two pollutants act synergistically, or one pollutant alone is the predominant factor.	SO ₂ is a colorless, pungent gas. At levels greater than 0.5 ppm, the gas has a strong odor like rotten eggs. Sulfur oxides (SO _x) include SO ₂ and sulfur trioxide. Sulfuric acid is formed from SO ₂ , which can lead to acid deposition and can harm natural resources and materials. Although SO ₂ concentrations have been reduced to levels well below state and federal standards, further reductions are desirable because SO ₂ is a precursor to sulfate and PM ₁₀ .	Human caused sources include fossil-fuel combustion, mineral ore processing, and chemical manufacturing. Volcanic emissions are a natural source of SO ₂ . The gas can also be produced in the air by dimethyl sulfide and hydrogen sulfide. SO ₂ is removed from the air by dissolution in water, chemical reactions, and transfer to soils and ice caps. The SO ₂ levels in the State are well below the maximum standards.
	3 Hour	—	0.5 ppm			
	24 Hour	0.04 ppm	0.14 (for certain areas)			
	Annual	—	0.030 ppm (for certain areas)			
Particulate matter (PM ₁₀)	24 hours	50 µg/m ³	150 µg/m ³	- Short-term exposure (hours/days): irritation of the eyes, nose, throat; coughing; phlegm; chest tightness; shortness of breath; aggravate existing lung disease, causing asthma attacks and acute bronchitis; those with heart disease can suffer heart attacks and arrhythmias. - Long-term exposure: reduced lung function; chronic bronchitis; changes in lung morphology; death.	Suspended particulate matter is a mixture of small particles that consist of dry solid fragments, droplets of water, or solid cores with liquid coatings. The particles vary in shape, size, and composition. PM ₁₀ refers to particulate matter that is between 2.5 and 10 microns in diameter, (1 micron is one-millionth of a meter). PM _{2.5} refers to particulate matter that is 2.5 microns or less in diameter, about one-thirtieth the size of the average human hair.	Stationary sources include fuel or wood combustion for electrical utilities, residential space heating, and industrial processes; construction and demolition; metals, minerals, and petrochemicals; wood products processing; mills and elevators used in agriculture; erosion from tilled lands; waste disposal, and recycling. Mobile or transportation-related sources are from vehicle exhaust and road dust. Secondary particles form from reactions in the atmosphere.
	Mean	20 µg/m ³	—			
Particulate matter (PM _{2.5})	24 Hour	—	35 µg/m ³			
	Annual	12 µg/m ³	12 µg/m ³			
Visibility-reducing particles	8 Hour	See note below ^d				

Air Pollutant	Averaging Time	California Standard	Federal Standard	Most Relevant Effects from Pollutant Exposure	Properties	Sources
Sulfates	24 Hour	25 µg/m ³	—	Decrease in ventilatory function; aggravation of asthmatic symptoms; aggravation of cardio-pulmonary disease; vegetation damage; degradation of visibility; and property damage.	The sulfate ion is a polyatomic anion with the empirical formula SO ₄ ²⁻ . Sulfates occur in combination with metal and/or hydrogen ions. Many sulfates are soluble in water.	Sulfates are particulates formed through the photochemical oxidation of SO ₂ . In California, the main source of sulfur compounds is combustion of gasoline and diesel fuel.
Lead ^e	30-day	1.5 µg/m ³	—	Lead accumulates in bones, soft tissue, and blood and can affect the kidneys, liver, and nervous system. It can cause impairment of blood formation and nerve conduction, behavior disorders, mental retardation, neurological impairment, learning deficiencies, and low IQs.	Lead is a solid heavy metal that can exist in air pollution as an aerosol particle component. Leaded gasoline was used in motor vehicles until around 1970. Lead concentrations have not exceeded state or federal standards at any monitoring station since 1982.	Lead ore crushing, lead-ore smelting, and battery manufacturing are currently the largest sources of lead in the atmosphere in the United States. Other sources include dust from soils contaminated with lead-based paint, solid waste disposal, and crustal physical weathering.
	Quarter	—	1.5 µg/m ³			
	Rolling 3-month average	—	0.15 µg/m ³			
Vinyl chloride ^e	24 Hour	0.01 ppm	—	Short-term exposure to high levels of vinyl chloride in the air causes central nervous system effects, such as dizziness, drowsiness, and headaches. Epidemiological studies of occupationally exposed workers have linked vinyl chloride exposure to development of a rare cancer, liver angiosarcoma, and have suggested a relationship between exposure and lung and brain cancers.	Vinyl chloride, or chloroethene, is a chlorinated hydrocarbon and a colorless gas with a mild, sweet odor. In 1990, the ARB identified vinyl chloride as a TAC and estimated a cancer unit risk factor.	Most vinyl chloride is used to make polyvinyl chloride plastic and vinyl products, including pipes, wire and cable coatings, and packaging materials. It can be formed when plastics containing these substances are left to decompose in solid waste landfills. Vinyl chloride has been detected near landfills, sewage plants, and hazardous waste sites.
Hydrogen sulfide	1 Hour	0.03 ppm	—	High levels of hydrogen sulfide can cause immediate respiratory arrest. It can irritate the eyes and respiratory tract and cause headache, nausea, vomiting, and cough. Long exposure can cause pulmonary edema.	Hydrogen sulfide (H ₂ S) is a flammable, colorless, poisonous gas that smells like rotten eggs.	Manure, storage tanks, ponds, anaerobic lagoons, and land application-sites are the primary sources of hydrogen sulfide. Anthropogenic sources include the combustion of sulfur containing fuels (oil and coal).

Air Pollutant	Averaging Time	California Standard	Federal Standard	Most Relevant Effects from Pollutant Exposure	Properties	Sources
VOC		There are no state or federal standards for VOCs because they are not classified as criteria pollutants.		Although health-based standards have not been established for VOCs, health effects can occur from exposures to high concentrations because of interference with oxygen uptake. In general, concentrations of VOCs are suspected to cause eye, nose, and throat irritation; headaches; loss of coordination; nausea and damage to the liver, the kidneys, and the central nervous system. Many VOCs have been classified TACs.	Reactive organic gases (ROGs), or VOCs, are defined as any compound of carbon—excluding CO, carbon dioxide, carbonic acid, metallic carbides or carbonates, and ammonium carbonate—that participates in atmospheric photochemical reactions. Although there are slight differences in the definition of ROG and VOCs, the two terms are often used interchangeably.	Indoor sources of VOCs include paints, solvents, aerosol sprays, cleansers, tobacco smoke, etc. Outdoor sources of VOCs are from combustion and fuel evaporation. A reduction in VOC emissions reduces certain chemical reactions that contribute to the formulation of ozone. VOCs are transformed into organic aerosols in the atmosphere, which contribute to higher PM ₁₀ and lower visibility.
Diesel particulate matter (DPM)		There are no ambient air quality standards for DPM.		Some short-term (acute) effects of DPM exposure include eye, nose, throat, and lung irritation, coughs, headaches, light-headedness, and nausea. Studies have linked elevated particle levels in the air to increased hospital admissions, emergency room visits, asthma attacks, and premature deaths among those suffering from respiratory problems. Human studies on the carcinogenicity of DPM demonstrate an increased risk of lung cancer, although the increased risk cannot be clearly attributed to diesel exhaust exposure.	DPM is a source of PM _{2.5} —diesel particles are typically 2.5 microns and smaller. Diesel exhaust is a complex mixture of thousands of particles and gases that is produced when an engine burns diesel fuel. Organic compounds account for 80 percent of the total particulate matter mass, which consists of compounds such as hydrocarbons and their derivatives, and polycyclic aromatic hydrocarbons and their derivatives. Fifteen polycyclic aromatic hydrocarbons are confirmed carcinogens, several which are found in diesel exhaust.	Diesel exhaust is a major source of ambient particulate matter pollution in urban environments. Typically, the main source of DPM is from combustion of diesel fuel in diesel-powered engines. Such engines are in on-road vehicles such as diesel trucks, off-road construction vehicles, diesel electrical generators, and various pieces of stationary construction equipment.

Air Pollutant	Averaging Time	California Standard	Federal Standard	Most Relevant Effects from Pollutant Exposure	Properties	Sources
Notes: ppm=parts per million (concentration) $\mu\text{g}/\text{m}^3$=micrograms per cubic meter Annual=Annual Arithmetic Mean 30-day=30-day average Quarter=Calendar quarter ^a Federal standard refers to the primary NAAQS, or the levels of air quality necessary, with an adequate margin of safety to protect the public health. All standards listed are primary standards except for 3 Hour SO_2, which is a secondary standard. A secondary standard is the level of air quality necessary to protect the public welfare from any known or anticipated adverse effects of a pollutant. ^b To attain the 1-hour NO_2 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 parts per billion (ppb) (0.100 ppm). ^c 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 1 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. ^d Visibility-reducing particles: 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. ^e The ARB has identified lead and vinyl chloride as TACs 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. ^f The EPA Administrator approved a revised 8-hour ozone standard of 0.07 ppb on October 1, 2015. The new standard went into effect 60 days after publication of the Final Rule in the Federal Register. The Final Rule was published in the Federal Register on October 26, 2015 and became effective on December 28, 2015. ^g The official level of the 1-hour NO_2 standard is 100 ppb, equal to 0.100 ppm, which is shown here for the purpose of clearer comparison to the other standards. Source of effects, properties, and sources: United States Environmental Protection Agency (EPA). 2003. Particle Pollution and your Health. EPA-452/F-03-001. September. Website: https://www3.epa.gov/airnow/particles-bw.pdf. Accessed December 30, 2019. United States Environmental Protection Agency (EPA). 2009. Ozone and your Health EPA-456/F-09-001. Website: https://www3.epa.gov/airnow/ozone-c.pdf. Accessed December 30, 2019. United States Environmental Protection Agency (EPA). 2009. Fact Sheet, Proposed Revisions to the National Ambient Air Quality Standards for Nitrogen Dioxide. July. Website: https://www.gpo.gov/fdsys/pkg/FR-2009-07-15/pdf/E9-15944.pdf. Accessed December 31, 2019. United States Environmental Protection Agency (EPA). 2010. Technology Transfer Network, Air Toxics Website. Page updated December 21, 2018. Health Effects Notebook for Hazardous Air Pollutants. December. Website: https://www.epa.gov/haps/health-effects-notebook-hazardous-air-pollutants. Accessed December 31, 2019. National Toxicology Program. 2011. Report on Carcinogens, Twelfth Edition; U.S. Department of Health and Human Services, Public Health Service. June 10. Benzene. Website: http://ntp.niehs.nih.gov/ntp/roc/twelfth/profiles/Benzene.pdf. Accessed December 31, 2019. National Toxicology Program. 2016. Report on Carcinogens, Fourteenth Edition; U.S. Department of Health and Human Services, Public Health Service. Diesel Exhaust Particles. Website: https://ntp.niehs.nih.gov/ntp/roc/content/profiles/dieselexhaustparticulates.pdf. Accessed July 30, 2018. California Environmental Protection Agency (Cal/EPA). 2002. Office of Environmental Health Hazard Assessment. Health Effects of Diesel Exhaust. Website: https://oehha.ca.gov/media/downloads/calenviroscreen/indicators/diesel4-02.pdf. Accessed December 30, 2019. California Air Resources Board (ARB). 2009. Vinyl Chloride. Website: https://ww2.arb.ca.gov/resources/vinyl-chloride-and-health. Accessed December 30, 2019. United States Environmental Protection Agency (EPA). 2017. Indoor Air Quality. Sources of Indoor Air Pollution—Organic Gases (Volatile Organic Compounds—VOCs). November. Website: www.epa.gov/iaq/voc.html. Accessed December 31, 2019. National Toxicology Program. 2011. Report on Carcinogens, Twelfth Edition; U.S. Department of Health and Human Services, Public Health Service. Diesel Exhaust Particles. Website: https://oehha.ca.gov/media/downloads/proposition-65/crnrr/comments/12throc-complete.pdf. Accessed July 18, 2013. Source of standards: South Coast Air Quality Management District (SCAQMD). 2018. National Ambient Air Quality Standards (NAAQS) and California Ambient Air Quality Standards (CAAQS) Attainment Status for South Coast Air Basin. February. Website http://www.aqmd.gov/docs/default-source/clean-air-plans/air-quality-management-plans/naaqs-caaqs-feb2016.pdf?sfvrsn=2. Accessed January 9, 2020.						

Several pollutants listed in Table 1 are not addressed in this analysis. Analysis of lead is not included in this report because no new sources of lead emissions are anticipated with the proposed project. Visibility-reducing particles are not explicitly addressed in this analysis because particulate matter is addressed as PM₁₀ and PM_{2.5}. No components of the proposed project would result in vinyl chloride or hydrogen sulfide emissions in any substantial quantity.

Asbestos

Asbestos is the name given to several naturally occurring fibrous silicate minerals that have been mined for their useful properties such as thermal insulation, chemical and thermal stability, and high tensile strength. The three most common types of asbestos are chrysotile, amosite, and crocidolite. Chrysotile, also known as white asbestos, is the most common type of asbestos found in buildings. Chrysotile makes up approximately 90 to 95 percent of all asbestos contained in buildings in the United States. Exposure to asbestos is a health threat; exposure to asbestos fibers may result in health issues such as lung cancer, mesothelioma (a rare cancer of the thin membranes lining the lungs, chest, and abdominal cavity), and asbestosis (a non-cancerous lung disease that causes scarring of the lungs). Exposure to asbestos can occur during demolition or remodeling of buildings that were constructed prior to the 1977 ban on asbestos for use in buildings. Exposure to naturally occurring asbestos can occur during soil-disturbing activities in areas with deposits present. No naturally occurring asbestos is located near the project site.⁹

Valley Fever

Valley Fever, or coccidioidomycosis, is an infection caused by inhalation of spores of the fungus, *Coccidioides immitis* (*C. immitis*). Spores live in soil and can live for an extended time in harsh environmental conditions. Activities or conditions that increase the amount of fugitive dust, including dust storms, grading, and recreational off-road activities, contribute to greater exposure.

Much of California is considered an endemic area for Valley Fever. In 2015, there were 36 cases of Valley Fever in San Bernardino County, or 1.7 cases per 100,000 people. Nearly 75 percent of people who get Valley Fever miss work or school for an average of two weeks. More than 40 percent of people who get Valley Fever need to be hospitalized. The number of Valley Fever cases reported nationally has more than quadrupled in the past decade. There were over 11,000 reported cases in 2015, and the CDC estimates that an additional 150,000 cases go undiagnosed each year. About 28 percent of all cases occur in California. There have been several outbreaks of Valley Fever in California in recent years. Between 1990 and 2008, there were 3,089 Valley Fever fatalities nationwide, and 47 percent of those deaths occurred in California.¹⁰

The distribution of *C. immitis* is not uniform, and growth sites are commonly small (a few tens of meters) and widely scattered. Known sites appear to have some ecological factors in common suggesting that certain physical, chemical, and biological conditions are more favorable for *C. immitis* growth. Avoidance, when possible, of sites favorable for the occurrence of *C. immitis* is a prudent risk management strategy. Listed below are ecologic factors and sites favorable for the occurrence of *C. immitis*:

⁹ California Department of Conservation, Division of Mine Reclamation. 2000. A General Location Guide for Ultramafic Rocks in California—Areas More likely to Contain Naturally Occurring Asbestos. August. Website: https://ww2.arb.ca.gov/sites/default/files/classic/toxics/asbestos/ofr_2000-019.pdf. Accessed May 2020.

¹⁰ San Bernardino County Division of Environmental Health Services. 2017. Coccidioidomycosis. February.

1. Rodent burrows (often a favorable site for *C. immitis*, perhaps because temperatures are more moderate and humidity higher than on the ground surface).
2. Old (prehistoric) Native American campsites near fire pits.
3. Areas with sparse vegetation and alkaline soils.
4. Areas with high salinity soils.
5. Areas adjacent to arroyos (where residual moisture may be available).
6. Packrat middens.
7. Upper 30 centimeters of the soil horizon, especially in virgin undisturbed soils.
8. Sandy well aerated soil with relatively high water holding capacities.

Sites within endemic areas less favorable for the occurrence of *C. immitis* include:

1. Cultivated fields.
2. Heavily vegetated areas (e.g. grassy lawns).
3. Higher elevations (above 7,000 feet.)
4. Areas where commercial fertilizers (e.g. ammonium sulfate) have been applied.
5. Areas that are continually wet.
6. Paved (asphalt or concrete) or oiled areas.
7. Soils containing abundant microorganisms.
8. Heavily urbanized areas where there is little undisturbed virgin soil.¹¹

The project area is mostly developed. The project site is adjacent to existing industrial and residential development. Exposure to *C. immitis* could occur during soil-disturbing activities in areas with deposits present, however because most of the project area and immediately surrounding vicinity consists of urbanized development, the project site would have low probability of *C. immitis* growth sites or exposure from disturbed soil. No further analysis is necessary.

2.3 - Existing Air Quality Conditions

2.3.1 - Attainment Status

The EPA and the ARB designate air basins where ambient air quality standards are exceeded as “nonattainment” areas. If standards are met, the area is designated as an “attainment” area. If there is inadequate or inconclusive data to make a definitive attainment designation, they are considered “unclassified.” National nonattainment areas are further designated as marginal, moderate, serious, severe, or extreme as a function of deviation from standards.

Each standard has a different definition, or “form” of what constitutes attainment, based on specific air quality statistics. For example, the federal 8-hour CO standard is not to be exceeded more than

¹¹ United States Geological Survey (USGS). 2000. Operational Guidelines (Version 1.0) for Geological Fieldwork in Areas Endemic for Coccidioidomycosis (Valley Fever), 2000, Open-File Report 2000-348. Website: <https://pubs.usgs.gov/of/2000/0348/pdf/of00-348.pdf>. Accessed July 8, 2020.

once per year; therefore, an area is in attainment of the CO standard if no more than one 8-hour ambient air monitoring values exceeds the threshold per year. In contrast, the federal annual PM_{2.5} standard is met if the three-year average of the annual average PM_{2.5} concentration is less than or equal to the standard.

The SoCAB is currently nonattainment for State ozone, particulate matter with aerodynamic diameter less than 10 microns (PM₁₀), and particulate matter with aerodynamic diameter less than 2.5 microns (PM_{2.5}), and federal ozone and PM_{2.5}.¹²

2.4 - Air Quality Plans and Regulations

Air pollutants are regulated at the national, State, and air basin or county level; each agency has a different level of regulatory responsibility. The EPA regulates at the national level. The ARB regulates at the State level. The SCAQMD regulates at the air basin level.

The EPA is responsible for national and interstate air pollution issues and policies. The EPA sets national vehicle and stationary source emission standards, oversees approval of all State Implementation Plans (SIP), provides research and guidance for air pollution programs, and sets the NAAQS.

A SIP is a document prepared by each state describing existing air quality conditions and measures that will be followed to attain and maintain federal air standards. The SIP for the State of California is administered by the ARB, which has overall responsibility for Statewide air quality maintenance and air pollution prevention. California's SIP incorporates individual federal attainment plans for regional air districts—an air district prepares their federal attainment plan, which is sent to ARB to be approved and incorporated into the California SIP. Federal attainment plans include the technical foundation for understanding air quality (e.g., emission inventories and air quality monitoring), control measures and strategies, and enforcement mechanisms.

Areas designated non-attainment must develop air quality plans and regulations to achieve standards by specified dates, depending on the severity of the exceedances. For much of the country, implementation of federal motor vehicle standards and compliance with federal permitting requirements for industrial sources are adequate to attain air quality standards on schedule. For many areas of California, however, additional State and local regulation is required to achieve the standards. Regulations adopted by California are described below.

2.4.1 - California Regulations

Low-Emission Vehicle Program

The ARB first adopted Low Emission Vehicle (LEV) program standards in 1990. These first LEV standards ran from 1994 through 2003. LEV II regulations, running from 2004 through 2010, represented continuing progress in emission reductions. As the State's passenger vehicle fleet continues to grow and more sport utility vehicles and pickup trucks are used as passenger cars rather

¹² South Coast Air Quality Management District (SCAQMD). 2018. NAAQS and CAAQS Attainment Status for South Coast Air Basin. September.

than work vehicles, the more stringent LEV II standards were adopted to provide reductions necessary for California to meet federally mandated clean air goals outlined in the 1994 SIP. In 2012, ARB adopted the LEV III amendments to California's LEV regulations. These amendments, also known as the Advanced Clean Cars Program, include more stringent emission standards for model years 2017 through 2025 for both criteria pollutants and GHGs for new passenger vehicles.¹³

California Air Resources Board Airborne Toxic Control Measure for Asbestos

In July 2001, the ARB approved an Airborne Toxic Control Measure (ATCM) for construction, grading, quarrying, and surface mining operations to minimize emissions of naturally occurring asbestos. The regulation requires application of Best Management Practices (BMPs) to control fugitive dust in areas known to have naturally occurring asbestos and requires notification to the local air district prior to commencement of ground-disturbing activities. The measure establishes specific testing, notification and engineering controls prior to grading, quarrying, or surface mining in construction zones where naturally occurring asbestos is located on projects of any size. There are additional notification and engineering controls at work sites larger than 1 acre in size. These projects require the submittal of a "Dust Mitigation Plan" and approval by the air district prior to the start of a project.

Construction sometimes requires the demolition of existing buildings where construction occurs; however, no demolition of buildings is proposed as part of the proposed project. In addition, asbestos is also found in a natural state, known as naturally occurring asbestos. Exposure and disturbance of rock and soil that naturally contain asbestos can result in the release of fibers into the air and consequent exposure to the public. Asbestos most commonly occurs in ultramafic rock that has undergone partial or complete alteration to serpentine rock (serpentine) and often contains chrysotile asbestos. In addition, another form of asbestos, tremolite, can be found associated with ultramafic rock, particularly near faults. Sources of asbestos emissions include unpaved roads or driveways surfaced with ultramafic rock, construction activities in ultramafic rock deposits, or rock quarrying activities where ultramafic rock is present.

Areas are subject to the regulation if they are identified on maps published by the Department of Conservation as ultramafic rock units or if the Air Pollution Control Officer or owner/operator has knowledge of the presence of ultramafic rock, serpentine, or naturally occurring asbestos on the site. The measure also applies if ultramafic rock, serpentine, or asbestos is discovered during any operation or activity. Review of the Department of Conservation maps indicates that no ultramafic rock has been found near the project site.

Diesel Risk Reduction Plan

The ARB's Diesel Risk Reduction Plan has led to the adoption of new state regulatory standards for all new on-road, off-road, and stationary diesel-fueled engines and vehicles to reduce DPM emissions by about 90 percent overall from year 2000 levels. The projected emission benefits associated with the full implementation of this plan, including federal measures, are reductions in DPM emissions and associated cancer risks of 75 percent by 2010, and 85 percent by 2020.¹⁴

¹³ California Air Resources Board (ARB). 2012. Low-Emission Vehicle Program. Website: <http://www.arb.ca.gov/msprog/levprog/levprog.htm>. Accessed April 19, 2013.

¹⁴ California Air Resources Board (ARB). 2000. Risk Reduction Plan to Reduce Particulate Matter Emissions from Diesel-fueled Engines and Vehicles. Website: <http://www.arb.ca.gov/diesel/documents/rpfinal.pdf>.

California Air Resources Board Regulation for In-Use Off-Road Diesel Vehicles

On July 26, 2007, the ARB adopted a regulation to reduce DPM and oxides of nitrogen (NO_x) emissions from in-use (existing) off-road heavy-duty diesel vehicles in California. Such vehicles are used in construction, mining, and industrial operations. The regulation limits idling to no more than 5 consecutive minutes, requires reporting and labeling, and requires disclosure of the regulation upon vehicle sale. The ARB is enforcing that part of the rule with fines up to \$10,000 per day for each vehicle in violation. Performance requirements of the rule are based on a fleet's average NO_x emissions, which can be met by replacing older vehicles with newer, cleaner vehicles or by applying exhaust retrofits. The regulation was amended in 2010 to delay the original timeline of the performance requirements, making the first compliance deadline January 1, 2014 for large fleets (over 5,000 horsepower), 2017 for medium fleets (2,501-5,000 horsepower), and 2019 for small fleets (2,500 horsepower or less).

The latest amendments to the Truck and Bus regulation became effective on December 31, 2014. The amended regulation requires diesel trucks and buses that operate in California to be upgraded to reduce emissions. Newer heavier trucks and buses met particulate matter (PM) filter requirements beginning January 1, 2012. Mandatory replacement of lighter and older heavier trucks began January 1, 2015. By January 1, 2023, nearly all trucks and buses will need to have 2010 model year engines or equivalent.

The regulation applies to nearly all privately and federally owned diesel fueled trucks and buses and to privately and publicly owned school buses with a gross vehicle weight rating greater than 14,000 pounds. The regulation provides a variety of flexibility options tailored to fleets operating low use vehicles, fleets operating in selected vocations like agricultural and construction, and small fleets of three or fewer trucks.

On-Road Heavy-Duty Vehicle Program

The ARB has adopted standards for emissions from various types of new on-road heavy-duty vehicles. Section 1956.8, Title 13, California Code of Regulations contains California's emission standards for on-road heavy-duty engines and vehicles, and test procedures. The ARB has also adopted programs to reduce emissions from in-use heavy-duty vehicles including the Heavy-Duty Diesel Vehicle Idling Reduction Program, the Heavy-Duty Diesel In-Use Compliance Program, the Public Bus Fleet Rule and Engine Standards, and the School Bus Program and others.¹⁵

Regulations for Heavy-Duty Vehicles/Trucks

California Air Resources Board Airborne Toxic Control Measure to Limit Diesel-Fueled Commercial Motor Vehicle Idling. This ATCM adopted Section 2485 within Chapter 10, Article 1, Division 3, title 13 in the California Code of Regulations. The measure limits the idling of diesel vehicles (i.e., commercial trucks over 10,000 pounds) to reduce emissions of toxics and criteria pollutants. The driver of any vehicle subject to this section: (1) shall not idle the vehicle's primary diesel engine for greater than 5 minutes at any location; and (2) shall not idle a diesel-fueled auxiliary power system for more than 5 minutes to power a heater, air conditioner, or any ancillary equipment on the

¹⁵ California Air Resources Board (ARB). 2013. The California Almanac of Air Quality and Emissions—2013 Edition. Website: <http://www.arb.ca.gov/aqd/almanac/almanac13/almanac13.htm>. Accessed April 25, 2016.

vehicle if it has a sleeper berth and the truck is located within 100 feet of a restricted area (homes and schools).

California Air Resources Board Requirements to Reduce Idling Emissions from New and In-Use Trucks. Amendments were made to Title 13 in California Code of Regulations in Sections 1956.8, 2404, 2424, 2425, and 2485. The amendment states: “all new 2008 and subsequent model-year heavy-duty diesel engines shall be equipped with an engine shutdown system that automatically shuts down the engine after 300 seconds of continuous idling operation once the vehicle is stopped, the transmission is set to ‘neutral’ or ‘park,’ and the parking brake is engaged. If the parking brake is not engaged, then the engine shutdown system shall shut down the engine after 900 seconds of continuous idling operation once the vehicle is stopped and the transmission is set to ‘neutral’ or ‘park.’” There are a few conditions where the engine shutdown system can be overridden to prevent engine damage. Any project trucks manufactured after 2008 would be consistent with this rule, which would ultimately reduce air emissions.

Statewide Truck and Bus Regulation (Regulation to Reduce Emissions of DPM, Oxides of Nitrogen and Other Criteria Pollutants, from In-Use Heavy-Duty Diesel-Fueled Vehicles, Title 13, California Code of Regulations, Section 2025). On December 12, 2008, the ARB approved this regulation (Regulation to Reduce Emissions of DPM, Oxides of Nitrogen and Other Criteria Pollutants, from In-Use Heavy-Duty Diesel-Fueled Vehicles, Title 13, California Code of Regulations, Section 2025) to reduce emissions from existing on-road diesel trucks and buses operating in California. This regulation applies to all on-road heavy-duty diesel-fueled vehicles with a gross vehicle weight rating greater than 14,000 pounds, agricultural yard trucks with off-road certified engines, and certain diesel fueled shuttle vehicles of any gross vehicle weight rating. Out-of-state trucks and buses that operate in California are also subject to the regulation. Under the regulation, older, heavier trucks (i.e. those with pre-2000 year engines and a gross vehicle weight rating greater than 26,000 pounds), are required to have installed a PM filter and must be replaced with a 2010 engine between 2015 and 2020, depending on the model year.

Air Toxics Contaminant Measure for Transportation Refrigeration Units and Transportation Refrigeration Generator Sets was adopted by the ARB to reduce emissions of TAC emissions from in-use Transportation Refrigeration Units (TRUs) and TRU generator sets used to power electrically driven refrigerated shipping.

2.4.2 - South Coast Air Quality Management District

Standard Conditions

During construction and operation, the proposed project must comply with applicable rules and regulations. The following are rules and regulations the proposed project may be required to comply with, either directly or indirectly.

SCAQMD Rule 402 prohibits a person from discharging from any source whatsoever such quantities of air contaminants or other material which cause injury, detriment, nuisance, or annoyance to any considerable number of persons or to the public, or which endanger the comfort, repose, health or

safety of any such persons or the public, or which cause, or have a natural tendency to cause injury or damage to business or property.

SCAQMD Rule 403 governs emissions of fugitive dust during construction and operation activities. Compliance with this rule is achieved through the application of standard Best Management Practices, such as the application of water or chemical stabilizers to disturbed soils, covering haul vehicles, restricting vehicle speeds on unpaved roads to 15 miles per hour (mph), sweeping loose dirt from paved site access roadways, cessation of construction activity when winds exceed 25 mph, and establishing a permanent ground cover on finished sites.

Rule 403 requires that fugitive dust be controlled with the best available control measures, so that the presence of such dust does not remain visible in the atmosphere beyond the property line of the emission source. In addition, SCAQMD Rule 403 requires implementation of dust suppression techniques to prevent fugitive dust from creating a nuisance off-site. Applicable dust suppression techniques from Rule 403 are summarized below. Implementation of these dust suppression techniques can reduce the fugitive dust generation (and thus the PM₁₀ component). Compliance with these rules would reduce impacts on nearby sensitive receptors.

Rule 403 measures may include, but are not limited to, the following:

- Apply nontoxic chemical soil stabilizers according to manufacturers' specifications to all inactive construction areas (previously graded areas inactive for 10 days or more).
- Water active sites at least three times daily. (Locations where grading is to occur will be thoroughly watered prior to earthmoving.)
- Cover all trucks hauling dirt, sand, soil, or other loose materials, or maintain at least 0.6 meters (2 feet) of freeboard (vertical space between the top of the load and top of the trailer) in accordance with the requirements of California Vehicle Code Section 23114.
- Reduce traffic speeds on all unpaved roads to 15 mph or less.
- Suspension of all grading activities when wind speeds (including instantaneous wind gusts) exceed 25 mph.
- Bumper strips or similar BMPs shall be provided where vehicles enter and exit the construction-site onto paved roads or wash off trucks and any equipment leaving the site each trip.
- Replanting disturbed areas as soon as practical.
- During all construction activities, construction contractors shall sweep on-site and off-site streets if silt is carried to adjacent public thoroughfares, to reduce the amount of particulate matter on public streets. All sweepers shall be compliant with SCAQMD Rule 1186.1, Less Polluting Sweepers.

SCAQMD Rule 481 applies to all spray painting and spray coating operations and equipment. This rule would apply to the application of architectural coatings to the exterior and interior or of the building walls.

SCAQMD Rule 1108 governs the sale, use, and manufacturing of asphalt and limits the volatile organic compound (VOC) content in asphalt used in the SoCAB. This rule would regulate the VOC content of asphalt used during construction. Therefore, all asphalt used during construction of the project must comply with SCAQMD Rule 1108.

SCAQMD Rule 1113 governs the sale, use, and manufacturing of architectural coating and limits the VOC content in paints and paint solvents. This rule regulates the VOC content of paints available during construction. Therefore, all paints and solvents used during construction and operation of the project must comply with SCAQMD Rule 1113.

SCAQMD Rule 1143 governs the manufacture, sale, and use of paint thinners and solvents used in thinning of coating materials, cleaning of coating application equipment and other solvent cleaning operations by limiting their VOC content. This rule regulates the VOC content of solvents used during construction. Solvents used during the construction phase must comply with this rule.

SCAQMD Rule 1186 limits the presence of fugitive dust on paved and unpaved roads and sets certification protocols and requirements for street sweepers that are under contract to provide sweeping services to any federal, state, county, agency or special district such as water, air, sanitation, transit, or school district.

SCAQMD Rule 1303 governs the permitting of re-located or new major emission sources, requiring Best Available Control Measures and setting significance limits for PM₁₀ among other pollutants.

SCAQMD Rule 1401.1 provides additional health protection to children at schools or schools under construction from new or relocated facilities emitting TACs.

SCAQMD Rule 1403 establishes Survey Requirements, notification, and work practice requirements to prevent asbestos emissions from emanating during building renovation and demolition activities.

SCAQMD Rule 2202, On-Road Motor Vehicle Mitigation Options, is to provide employers with a menu of options to reduce mobile source emissions generated from employee commutes, to comply with federal and state Clean Air Act requirements, Health and Safety Code Section 40458, and Section 182(d)(1)(B) of the federal Clean Air Act. It applies to any employer who employs 250 or more employees on a full or part-time basis at a worksite for a consecutive six-month period calculated as a monthly average.

Air Quality Management Plans

The agency for air pollution control for the Los Angeles County portion of the SoCAB is the SCAQMD. The SCAQMD is responsible for controlling emissions primarily from stationary sources. The SCAQMD maintains air quality monitoring stations throughout the SoCAB and a portion of the Salton Sea Air Basin. The SCAQMD is also responsible for developing, updating, and implementing the Air Quality Management Plan (AQMP) for the region, in coordination with the Southern California Association of Governments (SCAG).

An AQMP is a plan prepared and implemented by an air pollution district for a county or region designated as nonattainment of the NAAQS and/or CAAQS. The term nonattainment area is used to refer to an air basin where one or more ambient air quality standards are exceeded.

2016 Air Quality Management Plan

On March 3, 2017, the SCAQMD adopted the 2016 AQMP. The 2016 AQMP address strategies and measures to attain the 2008 federal 8-hour ozone standard by 2032, the 2012 federal annual PM_{2.5} standard by 2021 to 2025, and the 2006 federal 24-hour PM_{2.5} standard by 2019. The 2016 AQMP also examined the regulatory requirements for attaining the 2015 federal 8-hour ozone standard. The 2016 AQMP also updates previous attainment plans for ozone and PM_{2.5} that have not yet been met.¹⁶ In general, the AQMP is updated every 3 to 4 years. However, the air quality planning process for the AQMP is continuous and each iteration is an update of the previous plan.

To ensure air quality goals will be met while minimizing impacts to the regional economy, the following policy objectives guided the development of the plan:

- Eliminate reliance on “black box” (future technologies) to the maximum extent possible by providing specific pathways to attainment with specific control measures.
- Calculate and take credit for co-benefits from other planning efforts (e.g., GHG reduction targets, energy efficiency, and transportation).
- Develop a strategy with fair-share emission reductions at the federal, State, and local levels such as a new federal engine emission standard and/or additional authority provided to the state or SCAQMD for mobile sources.
- Seek significant funding for incentives to implement early deployment and commercialization of known zero and near-zero technologies.
- Invest in strategies and technologies meeting multiple objectives regarding air quality, climate change, air toxic exposure, energy, and transportation.
- Enhance the socioeconomic analysis and select the most efficient and cost-effective path to achieve multi-pollutant and multi-deadline targets.
- Prioritize non-regulatory, innovative and “win-win” approaches for emission reductions.

The 2016 AQMP also demonstrates attainment of the 2008 Ozone Standard in Coachella Valley by 2026. The AQMP also demonstrates compliance with all applicable Federal Clean Air Act requirements pertaining to nonattainment areas pursuant to the EPA approved Implementation Rules, such as the annual average and summer planning emission inventory for criteria and precursor pollutants, attainment demonstrations, reasonably available control measure and reasonably available control technology analyses, reasonable further progress, PM precursor requirements, vehicle miles traveled (VMT) demonstrations, and transportation conformity budgets for SoCAB.

¹⁶ South Coast Air Quality Management District (SCAQMD). 2017. Final 2016 Air Quality Management Plan. March. Website: <http://www.aqmd.gov/docs/default-source/clean-air-plans/air-quality-management-plans/2016-air-quality-management-plan/final-2016-aqmp/final2016aqmp.pdf?sfvrsn=15>. Accessed July 1, 2017.

The control measures in the 2016 AQMP are based on implementing all feasible control measures through the accelerated deployment of available cleaner technologies, BMPs, co-benefits from existing programs, and incentive measures. The 2016 AQMP control measures consist of three main components: (1) the SCAQMD's Stationary and Mobile Source Control Measures; (2) suggested State and federal Source Control Measures; and (3) Regional Transportation Plan Transportation Control Measures provided by SCAG. These measures rely on not only the traditional command-and-control approach, but also public incentive programs, as well as advanced technologies expected to be developed and deployed in the next several years.

SCAQMD CEQA Guidance

The SCAQMD has two roles under CEQA:

1. **Lead Agency:** responsible for preparing environmental analyses for its own projects (adoption of rules, regulations, or plans) or permit projects filed with the SCAQMD where the SCAQMD has primary approval authority over the project.
2. **Commenting Agency:** the SCAQMD reviews and comments on air quality analyses prepared by other public agencies (such as the project).

The SCAQMD also provides guidance and thresholds for CEQA air quality and GHG analyses. The result of this guidance as well as state regulations to control air pollution is an overall improvement in the project area.

2.4.3 - Local

City of Colton General Plan

The City of Colton addresses goals and policies of its General Plan relevant to air quality in the Model Air Quality Element. Nearly the entirety of the City of Colton General Plan was adopted in 1986, though some elements were updated as recently as 2013. The Model Air Quality Element, which was adopted in 1991, was not part of the 2013 update. The City of Colton General Plan also includes several policies in other elements that may have co-benefits of reducing GHGs. The City of Colton General Plan goals and policies relevant to the proposed project and related air quality or GHGs are listed below. Many of the goals and policies cannot be implemented by a project applicant or an individual development project.

Model Air Quality Element

- **Goal AQ 5:** Reduce particulate emissions from roads, parking lots, construction site, and agricultural lands.
- **Policy AQ 5.1:** Control Dust. Reduce particulate emissions from roads, parking lots, construction sites and agricultural lands.
- **Policy AQ 5.2:** Reduce Emissions from Building Materials/Methods. Reduce emissions from building materials and methods which generate excessive pollutants.
- **Goal AQ 6:** Reduced emissions through reduced energy consumption.

Land Use

- **Goal Land Use (LU) 4:** Incorporate green building and other sustainable building practices into development projects.
- **Policy LU 4.1:** Require that new development projects reflect the principles of Traditional Neighborhood Development: walkable street patterns, pedestrian amenities, access to transit, a mix of complementary uses, comfortable and accessible open spaces a range of housing types and densities, and quality design.
- **Policy LU 4.2:** Facilitate the use of green building standards and Leadership in Energy and Environmental Design or similar programs in both private and public projects.
- **Policy LU 4.3:** Promote sustainable building practices that go beyond the requirement of Title 24 of the California Administrative Code and encourage energy-efficient design elements.
- **Policy LU 4.4:** Support sustainable building practices that integrate building materials and methods that promote environmental quality, economic vitality, and social benefit through the design, construction, and operation of the built environment.
- **Policy LU 4.5:** Promote adoptive reuse of existing buildings as an alternative to new construction.
- **Policy LU 4.6:** Require that land divisions and development projects incorporate designs and practices that respect natural site features and provide for groundwater recharge.
- **Goal LU 5:** Reduce use of energy resources citywide, with a key goal of reducing the City's carbon footprint.
- **Policy LU 5.1:** Require the incorporation of energy conservation features into the design of all new construction and site development, as required by State law and local regulations.
- **Policy LU 5.2:** Provide incentives, as funding opportunities become available, for the installation of energy conservation features in existing multi-family residential and commercial developments, including technical assistance and possible low interest loans.
- **Policy LU 5.3:** Educate the public using a variety of outreach channels regarding the need for energy conservation, techniques which can be employed, and systems which are available.
- **Policy LU 5.4:** Support the ongoing efforts of the ARB to implement AB32 and SB375, and fully follow any new AB32 and SB375-related regulations.
- **Policy LU 5.5:** Develop and implement GHG emissions reduction measures, including discrete, early-action GHG reducing measures that are technologically feasible and cost effective.
- **Policy LU 5.6:** Require detailed air quality and climate change analyses for all applications that have the potential to adversely affect air quality and incorporate the analyses into applicable CEQA documents. Projects with the potential to generate significant levels of air pollutants and GHGs, such as manufacturing facilities and site development operations, shall be required to incorporate mitigation into their design and operation, and to utilize the most advanced technological methods feasible.

- **Policy LU 5.7:** Work with SCAQMD and SCAG to implement the AQMP and Regional Transportation Plan/Sustainable Communities Strategy, with the objective of meeting federal and state air quality standards for all pollutants. To ensure that new measures can be practically enforced in the region, participate in future amendments and updates of the AQMP.

City of Colton Municipal Code

The City of Colton Municipal Code establishes the following air quality provisions that are relevant to the proposed project.

Chapter 18.42 Performance Standards

- **18.42.060—Smoke:** No operation or activity is permitted to have operations which emit excessive smoke, fumes or dust or which exceed the requirements, or levels, as specified by the SCAQMD.
- **18.42.070—Odors:** All activities shall be operated so as not to emit matter causing unpleasant odors which are perceptible by the average person at or beyond any lot line of the lot containing the activities.
- **18.42.080—Air quality:** No operation or activity shall cause the emission of any smoke, fly ash, dust, fumes, vapors, gases or other forms of air pollution which can cause damage to health, animals, vegetation, or other forms of property, or which can cause excessive soiling on any other Lot. No emission shall be permitted which exceeds the requirements of the SCAQMD or the requirements of any air quality plan adopted by the City.

SECTION 3: CLIMATE CHANGE SETTING

3.1 - Climate Change

Climate change is a change in the average weather of the Earth that is measured by alterations in wind patterns, storms, precipitation, and temperature. These changes are assessed using historical records of temperature changes occurring in the past, such as during previous ice ages. Many of the concerns regarding climate change use this data to extrapolate a level of statistical significance specifically focusing on temperature records from the last 150 years (the Industrial Age) that differ from previous climate changes in rate and magnitude.

The United Nations Intergovernmental Panel on Climate Change (IPCC) constructed several emission trajectories of GHGs needed to stabilize global temperatures and climate change impacts. In its Fourth Assessment Report, the IPCC predicted that the global mean temperature changes from 1990 to 2100, given six scenarios, could range from 1.1°C (degrees Celsius) to 6.4°C. Regardless of analytical methodology, global average temperatures and sea levels are expected to rise under all scenarios.¹⁷ The report also concluded that “[w]arming of the climate system is unequivocal,” and that “[m]ost of the observed increase in global average temperatures since the mid-20th century is very likely due to the observed increase in anthropogenic greenhouse gas concentrations.”

An individual project cannot generate enough GHG emissions to effect a discernible change in global climate. However, the project participates in the potential for global climate change 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 global climate change.

3.1.1 - Consequences of Climate Change in California

In California, climate change may result in consequences such as the following from California Climate Change Center.¹⁸

- **A reduction in the quality and supply of water from the Sierra snowpack.** If heat-trapping emissions continue unabated, more precipitation will fall as rain instead of snow, and the snow that does fall will melt earlier, reducing the Sierra Nevada spring snowpack by as much as 70 to 90 percent. This can lead to challenges in securing adequate water supplies. It can also lead to a potential reduction in hydropower.
- **Increased risk of large wildfires.** If rain increases as temperatures rise, wildfires in the grasslands and chaparral ecosystems of southern California are estimated to increase by approximately 30 percent toward the end of the 21st Century because more winter rain will stimulate the growth of more plant “fuel” available to burn in the fall. In contrast, a hotter, drier climate could promote up to 90 percent more northern California fires by the end of the century by drying out and increasing the flammability of forest vegetation.

¹⁷ Intergovernmental Panel on Climate Change (IPCC). 2007. Climate Change 2007: The Physical Science Basis. Contribution of Working Group I to the Fourth Assessment Report of the Intergovernmental Panel on Climate Change [Solomon, S., D. Qin, M. Manning, Z. Chen, M. Marquis, K.B. Averyt, M. Tignor and H.L. Miller (eds.)]. Cambridge University Press, Cambridge, United Kingdom and New York, NY, USA. Website: www.ipcc.ch/publications_and_data/ar4/wg1/en/contents.html.

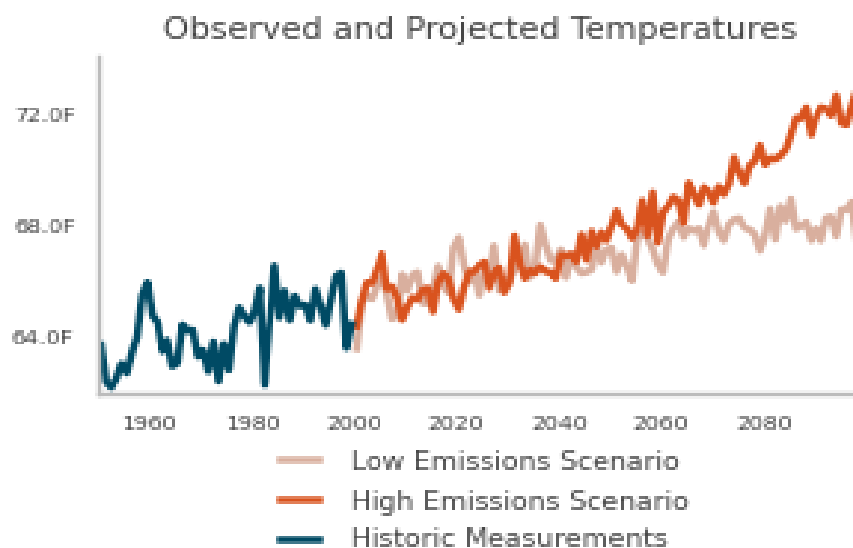
¹⁸ California Climate Change Center (CCCC). 2006. Our Changing Climate, Assessing the Risks to California: A Summary Report from the California Climate Change Center. July 2006. CEC-500-2006-077. Website: www.scc.ca.gov/webmaster/ftp/pdf/climate_change/assessing_risks.pdf. Accessed December 2013.

- **Reductions in the quality and quantity of certain agricultural products.** The crops and products likely to be adversely affected include wine grapes, fruit, nuts, and milk.
- **Exacerbation of air quality problems.** If temperatures rise to the medium warming range, there could be 75 to 85 percent more days with weather conducive to ozone formation in Los Angeles and the San Joaquin Valley, relative to today's conditions. This is more than twice the increase expected if rising temperatures remain in the lower warming range. This increase in air quality problems could result in an increase in asthma and other health-related problems.
- **A rise in sea levels resulting in the displacement of coastal businesses and residences.** During the past century, sea levels along California's coast have risen about seven inches. If emissions continue unabated and temperatures rise into the higher anticipated warming range, sea level is expected to rise an additional 22 to 35 inches by the end of the century. Elevations of this magnitude would inundate coastal areas with salt water, accelerate coastal erosion, threaten vital levees and inland water systems, and disrupt wetlands and natural habitats.
- **An increase temperature and extreme weather events.** Climate change is expected to lead to increases in the frequency, intensity, and duration of extreme heat events and heat waves in California. More heat waves can exacerbate chronic disease or heat-related illness.
- **A decrease in the health and productivity of California's forests.** Climate change can cause an increase in wildfires, an enhanced insect population, and establishment of non-native species.

San Bernardino County

Figure 1 displays a chart of measured historical and projected annual average temperatures for San Bernardino County. As shown in the figure, temperatures are expected to rise in the low and high GHG emissions scenarios. The results indicate that temperatures are predicted to increase by 3.8°F under the low emission scenario and 6.7°F under the high emissions scenario.

Figure 1: Observed and Projected Temperatures for Climate Change in San Bernardino County



Source: Cal-Adapt 2020.¹⁹

¹⁹ Cal-Adapt. 2020. Local Climate Snapshots. Website: <http://v1.cal-adapt.org/tools/factsheet/#>. Accessed August 5, 2020.

3.2 - Greenhouse Gases

Gases that trap heat in the atmosphere are referred to as GHGs. The effect is analogous to the way a greenhouse retains heat. Common GHGs include water vapor, carbon dioxide (CO₂), methane (CH₄), nitrous oxide (N₂O), chlorofluorocarbons, hydrofluorocarbons (HFC), perfluorocarbons (PFC), sulfur hexafluoride (SF₆), ozone, and aerosols. Natural processes and human activities emit GHGs. The presence of GHGs in the atmosphere affects the earth's temperature. It is believed that emissions from human activities, such as electricity production and vehicle use, have elevated the concentration of these gases in the atmosphere beyond the level of naturally occurring concentrations.

Individual GHG compounds have varying global warming potential and atmospheric lifetimes. The global warming potential is the potential of a gas or aerosol to trap heat in the atmosphere. To describe how much global warming a given type and amount of GHG may cause, the CO₂ equivalent (CO₂e) is used. The calculation of the CO₂ equivalent is a consistent methodology for comparing GHG emissions since it normalizes various GHG emissions to a consistent reference gas, CO₂. For example, CH₄'s warming potential of 25 indicates that CH₄ has 25 times greater warming effect than CO₂ on a molecule-per-molecule basis. A CO₂ equivalent is the mass emissions of an individual GHG multiplied by its global warming potential. As described in Table 2, the GHGs defined by Assembly Bill (AB) 32 (see the Climate Change Regulatory Environment section for a description) include CO₂, CH₄, N₂O, HFC, PFC, and SF₆. A seventh GHG, nitrogen trifluoride (NF₃), was added to Health and Safety Code Section 38505(g)(7) as a GHG of concern.

Table 2: Description of Greenhouse Gases

Greenhouse Gas	Description and Physical Properties	Sources
Nitrous oxide	Nitrous oxide (laughing gas) is a colorless GHG. It has a lifetime of 114 years. Its global warming potential is 298.	Microbial processes in soil and water, fuel combustion, and industrial processes.
CH ₄	Methane is a flammable gas and is the main component of natural gas. It has a lifetime of 12 years. Its global warming potential is 25.	Methane is extracted from geological deposits (natural gas fields). Other sources are landfills, fermentation of manure, and decay of organic matter.
CO ₂	CO ₂ is an odorless, colorless, natural GHG. CO ₂ 's global warming potential is 1. The concentration in 2005 was 379 parts per million (ppm), which is an increase of about 1.4 ppm per year since 1960.	Natural sources include decomposition of dead organic matter; respiration of bacteria, plants, animals, and fungus; evaporation from oceans; and volcanic outgassing. Anthropogenic sources are from burning coal, oil, natural gas, and wood.
HFCs	HFCs are a group of GHGs containing carbon, chlorine, and at least one hydrogen atom. Global warming potentials range from 140 to 11,700.	HFCs are synthetic man-made chemicals used as a substitute for chlorofluorocarbons in applications such as automobile air conditioners and refrigerants.

Greenhouse Gas	Description and Physical Properties	Sources
PFCs	PFCs have stable molecular structures and only break down by ultraviolet rays about 60 kilometers above Earth's surface. Because of this, they have long lifetimes, between 10,000 and 50,000 years. Global warming potentials range from 6,500 to 9,200.	Two main sources of PFCs are primary aluminum production and semiconductor manufacturing.
SF ₆	SF ₆ is an inorganic, odorless, colorless, and nontoxic, nonflammable gas. It has a lifetime of 3,200 years. It has a high global warming potential, 23,900.	This gas is man-made and used for insulation in electric power transmission equipment in the magnesium industry, in semiconductor manufacturing, and as a tracer gas.
Nitrogen trifluoride	Nitrogen trifluoride (NF ₃) was added to Health and Safety Code Section 38505(g)(7) as a GHG of concern. It has a high global warming potential of 17,200.	This gas is used in electronics manufacture for semiconductors and liquid crystal displays.
Sources: Compiled from a variety of sources, primarily Intergovernmental Panel on Climate Change (IPCC). 2007. Climate Change 2007: The Physical Science Basis. Contribution of Working Group I to the Fourth Assessment Report of the Intergovernmental Panel on Climate Change [Solomon, S., D. Qin, M. Manning, Z. Chen, M. Marquis, K.B. Averyt, M. Tignor and H.L. Miller (eds.)]. Cambridge University Press, Cambridge, United Kingdom and New York, NY, USA. Website: www.ipcc.ch/publications_and_data/ar4/wg1/en/contents.html. Accessed December 13, 2019. Intergovernmental Panel on Climate Change (IPCC). 2007. Climate Change 2007: Synthesis Report. Contribution of Working Groups I, II and III to the Fourth Assessment Report of the Intergovernmental Panel on Climate Change [Core Writing Team, Pachauri, R.K. and Reisinger, A. (eds.)]. IPCC, Geneva, Switzerland. Website: https://www.ipcc.ch/report/ar4/syr/. Accessed December 13, 2019.		

The State of California has begun the process of addressing pollutants referred to as short-lived climate pollutants. The short-lived climate pollutants include three main components: black carbon, fluorinated gases, and methane. The ARB approved the Short-Lived Climate Pollutant Reduction Strategy in March 2017. The ARB has completed an emission inventory of these pollutants, identified research needs, identified existing and potential new control measures that offer co-benefits, and coordinate with other State agencies and districts to develop measures.²⁰ Sources of black carbon are already regulated by the ARB, and air district criteria pollutant and toxic regulations that control PM_{2.5} from diesel engines and other combustion sources.²¹ Additional controls on the sources of black carbon specifically for their GHG impacts beyond those required for toxic and fine particulates are not likely to be needed.

Human Health Effects of GHG Emissions

GHG emissions from development projects would not result in concentrations that would directly impact public health. However, the cumulative effects of GHG emissions on climate change have the potential to cause adverse effects to human health.

²⁰ California Air Resources Board (ARB). 2016. Proposed Short-Lived Climate Pollutant Reduction Strategy. Website: <http://www.arb.ca.gov/cc/shortlived/shortlived.htm>.

²¹ California Air Resources Board (ARB). 2015. Low Carbon Fuel Standard Regulation. Website: <http://www.arb.ca.gov/regact/2015/lcfs2015/lcfs2015.htm>. Accessed July 28, 2015.

The United States Global Change Research Program, in its report, *Global Climate Change Impacts in the United States*,²² has analyzed the degree to which impacts on human health are expected to impact the United States.

Potential effects of climate change on public health include:

- **Direct Temperature Effects:** Climate change may directly affect human health through increases in average temperatures, which are predicted to increase the incidence of heat waves and hot extremes.
- **Extreme Events:** Climate change may affect the frequency and severity of extreme weather events, such as hurricanes and extreme heat and floods, which can be destructive to human health and well-being.
- **Climate-Sensitive Diseases:** Climate change may increase the risk of some infectious diseases, particularly those diseases that appear in warm areas and are spread by mosquitoes and other insects, such as malaria, dengue fever, yellow fever, and encephalitis.
- **Air Quality:** Respiratory disorders may be exacerbated by warming-induced increases in the frequency of smog (ground-level ozone) events and particulate air pollution.²³

Although there could be health effects resulting from changes in the climate and the consequences that can occur, inhalation of GHGs at levels currently in the atmosphere would not result in adverse health effects, with the exception of ozone and aerosols (PM). At very high indoor concentrations (not at levels existing outside), CO, CH₄, SF₆, and some chlorofluorocarbons can cause suffocation as the gases can displace oxygen.^{24,25}

3.2.1 - Emissions Inventories

United States GHG Inventory

In 2018, total United States GHG emissions totaled 6,677 million metric tons (MMT) CO₂e. Figure 2 presents 2018 United States GHG emissions by economic sector. Emissions increased from 2017 to 2018 by approximately 3 percent. This increase was largely driven by an increase in emissions from fossil fuel combustion, which was a result of multiple factors, including more electricity use due to greater heating and cooling needs due to a colder winter and hotter summer in 2018 in comparison to 2017. Total GHG emissions in the United States increased by 3.7 percent from 1990 to 2018 (from 6,437 MMT CO₂e in 1990 to 6,677 MMT CO₂e in 2018). Since 1990, United States emissions have increased at an average annual rate of 0.1 percent. GHG emissions in 2018 were 10.2 percent below 2005 levels.²⁶

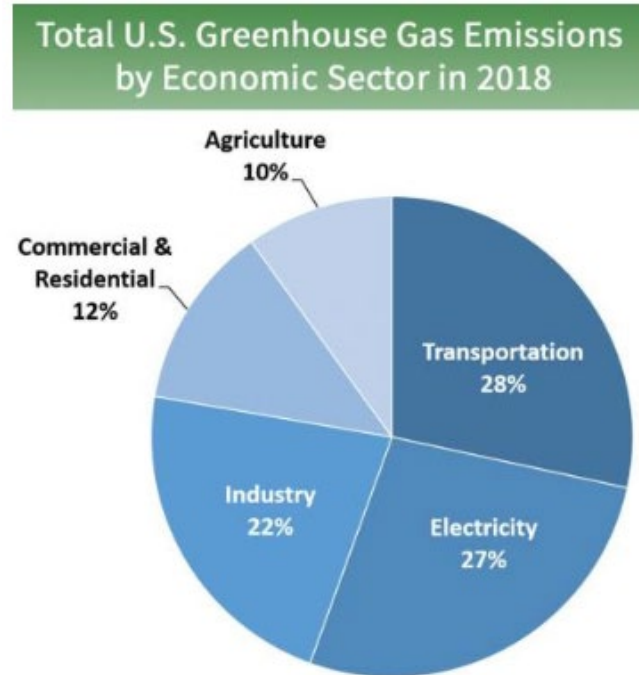
²² The United States Global Change Research Program. *Global Climate Change Impacts in the United States*. 2009. Website: <https://downloads.globalchange.gov/usimpacts/pdfs/climate-impacts-report.pdf>. Accessed August 2019.

²³ The United States Global Change Research Program. *Global Climate Change Impacts in the United States*. 2009. Website: <https://downloads.globalchange.gov/usimpacts/pdfs/climate-impacts-report.pdf>. Accessed August 2019.

²⁴ Centers for Disease Control and Prevention (CDC). 2010. Department of Health and Human Services, the National Institute for Occupational Safety and Health. Carbon Dioxide. Website: www.cdc.gov/niosh/npg/npgd0103.html. Accessed February 14, 2017.

²⁵ Occupational Safety and Health Administration (OSHA). 2003. United States Department of Labor. Safety and Health Topics: Methane. Website: www.osha.gov/dts/chemicalsampling/data/CH_250700.html. Accessed August 21, 2016.

²⁶ United States Environmental Protection Agency (EPA). 2020. Inventory of U.S. Greenhouse Gas Emissions and Sinks. April. Website: <https://www.epa.gov/ghgemissions/inventory-us-greenhouse-gas-emissions-and-sinks>. Accessed June 24, 2020.

Figure 2: 2018 U.S. Greenhouse Gas Emissions by Economic Sector

Source: United States Environmental Protection Agency (EPA). 2020. Inventory of U.S. Greenhouse Gas Emissions and Sinks. April. Website: <https://www.epa.gov/ghgemissions/inventory-us-greenhouse-gas-emissions-and-sinks>. Accessed June 24, 2020.

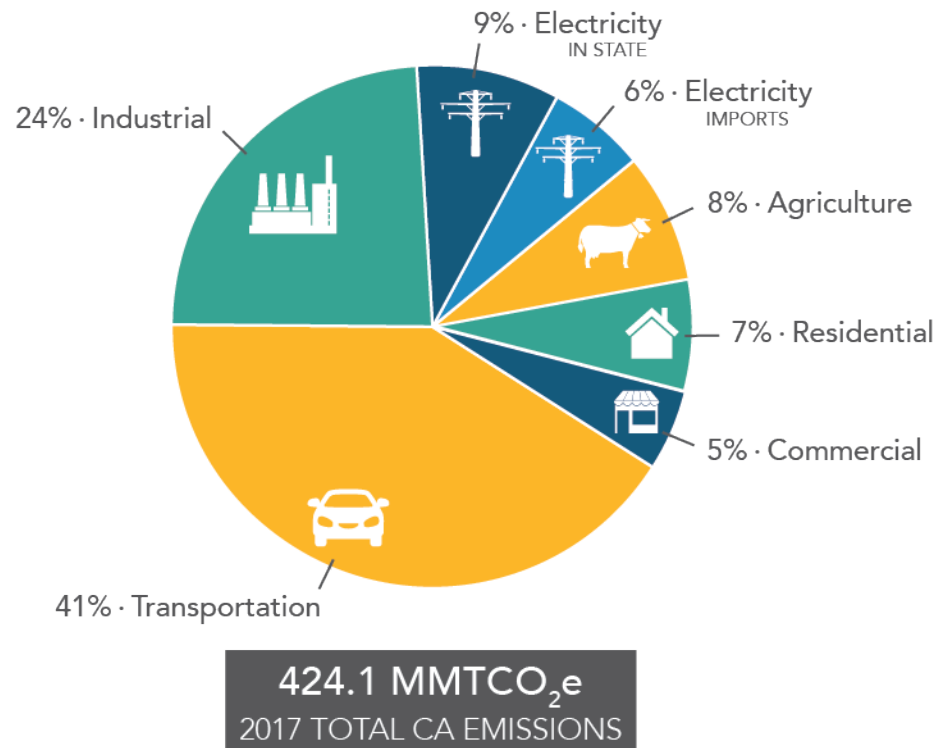
Note: Emissions shown do not include carbon sinks such as change in land uses and forestry.

California GHG Inventory

As the second largest emitter of GHG emissions in the U.S., California contributes a large quantity (424.1 MMT CO₂e in 2017) of GHG emissions to the atmosphere. Emissions of CO₂ are byproducts of fossil-fuel combustion and are attributable in large part to human activities associated with transportation, industry/manufacturing, electricity and natural gas consumption, and agriculture. In California, the transportation sector is the largest emitter at 41 percent of GHG emissions, followed by industry/manufacturing at 24 percent of GHG emissions (Figure 3).²⁷

²⁷ California Air Resources Board (ARB). 2019. California Greenhouse Gas Emission Inventory - 2019 Edition. Website: <https://ww3.arb.ca.gov/cc/inventory/data/data.htm>. Accessed May 18, 2020.

Figure 3: California GHG Emissions by Sector



Source: California Air Resources Board (ARB). 2019. California Greenhouse Gas Emission Inventory - 2019 Edition. Website: <https://ww3.arb.ca.gov/cc/inventory/data/data.htm>. Accessed May 18, 2020.

3.3 - Regulatory Environment

3.3.1 - International

Intergovernmental Panel on Climate Change. In 1988, the United Nations and the World Meteorological Organization established the IPCC to assess the scientific, technical and socio-economic information relevant to understanding the scientific basis of risk of human-induced climate change, its potential impacts, and options for adaptation and mitigation.

United Nations Framework Convention on Climate Change. On March 21, 1994, the United States 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.

Kyoto Protocol. The Kyoto Protocol is an international agreement linked to the United Nations Framework Convention on Climate Change. 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 average of five percent against 1990 levels over the 5-year period from 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 United States Senate for ratification, which effectively ended American involvement in the Kyoto Protocol. There have been several meetings held to address international climate change commitments post Kyoto, the most notable of which were held by the United Nations Climate Change Committee. The meetings are gradually gaining consensus among participants on individual climate change issues. At the Climate Summit hosted by the United Nations in September 2014, 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.

Paris Climate Change Agreement. Parties to the Convention reached a landmark agreement on December 12 in Paris, charting a fundamentally new course in the two-decade-old global climate effort. Culminating a 4-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 Convention Conference of the Parties, or COP 21.²⁸

On June 1, 2017, President Trump announced the decision for the United States to withdraw from the Paris Climate Accord.²⁹ California remains committed to combating climate change through programs aimed to reduce GHGs.³⁰

3.3.2 - Federal Regulations

The following are actions regarding the federal government, GHGs, and fuel efficiency.

GHG Endangerment. *Massachusetts v. EPA* (Supreme Court Case 05-1120) was argued before the United States Supreme Court on November 29, 2006, in which it was petitioned that the EPA regulate four GHGs, including CO₂, under Section 202(a)(1) of the Clean Air Act. A decision was made on April 2, 2007, in which the Supreme Court found that GHGs are air pollutants covered by the Clean Air Act. The Court held that the 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

²⁸ Center for Climate and Energy Solutions (C2ES). 2015. Outcomes of the U.N. Climate Change Conference. Website: <http://www.c2es.org/international/negotiations/cop21-paris/summary>. Accessed April 19, 2016.

²⁹ The White House. Statement by President Trump on the Paris Climate Accord. Website: <https://www.whitehouse.gov/the-press-office/2017/06/01/statement-president-trump-paris-climate-accord>. Accessed June 23, 2017.

³⁰ California Air Resources Board (ARB). 2017. New Release: California and China Team Up to Push for Millions More Zero-emission Vehicles. Website: <https://www.arb.ca.gov/newsreel/newsrelease.php?id=934>. Accessed June 27, 2017.

under Section 202(a) of the Clean Air Act. 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 United States Supreme Court declined to review an Appeals Court ruling upholding that upheld the EPA Administrator findings.

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 United States. On April 1, 2010, the EPA and the Department of Transportation’s National Highway Safety Administration 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 United States.

The first phase of the national program applies to passenger cars, light-duty trucks, and medium-duty passenger vehicles, covering model years 2012 through 2016. They require these vehicles to meet an estimated combined average emissions level of 250 grams of CO₂ per mile, equivalent to 35.5 miles per gallon if the automobile industry were to meet this CO₂ level solely through fuel economy improvements. Together, these standards would cut CO₂ emissions by an estimated 960 MMT 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 National Highway Safety Administration issued final rules on a second-phase joint rulemaking, establishing national standards for light-duty vehicles for model years 2017 through 2025 in August 2012.³¹ The new standards for model years 2017 through 2025 apply to passenger cars, light-duty trucks, and medium duty passenger vehicles. The final standards are projected to result in an average industry fleetwide level of 163 grams/mile of CO₂ in model year 2025, which is equivalent to 54.5 miles per gallon (mpg) if achieved exclusively through fuel economy improvements.

The EPA and the United States Department of Transportation issued final rules for the first national standards to reduce GHG emissions and improve fuel efficiency of heavy-duty trucks and buses on September 15, 2011, which became effective November 14, 2011. For combination tractors, the agencies proposed engine and vehicle standards that began in the 2014 model year and achieve up to a 20-percent reduction in CO₂ emissions and fuel consumption by the 2018 model year. For heavy-duty pickup trucks 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-percent reduction for diesel vehicles by 2018 model year (12 and 17 percent respectively if accounting for air conditioning leakage). Lastly, for vocational vehicles, the engine and vehicle standards would achieve up to a 10-percent reduction in fuel consumption and CO₂ emissions from the 2014 to 2018 model years.

³¹ United States Environmental Protection Agency (EPA). 2012. EPA and NHTSA Set Standards to Reduce Greenhouse Gases and Improve Fuel Economy for Model Years 2017-2025 Cars and Light Trucks. August. Website: <https://nepis.epa.gov/Exe/tiff2png.cgi/P100EZ7C.PNG?-r+75+-g+7+D%3A%5CZYFILES%5CINDEX%20DATA%5C11THRU15%5CTIFF%5C00000346%5CP100EZ7C.TIF>. Accessed July 8, 2020.

The State of California has received a waiver from the EPA to have separate, stricter corporate average fuel economy standards. Although global climate change did not become an international concern until the 1980s, efforts to reduce energy consumption began in California in response to the oil crisis in the 1970s, resulting in the incidental reduction of GHG emissions. To manage the State's energy needs and promote energy efficiency, AB 1575 created the California Energy Commission (CEC) in 1975. It should be noted that the EPA recently rescinded California's waiver for its GHG and ZEV mandates; however, all ARB standards are still in effect at the time of this writing.³² In September 2020, Governor Gavin Newsom issued Executive Order N-79-20, which requires sales of all new passenger vehicles to be zero-emission by 2035 and additional measures to eliminate harmful emissions from the transportation sector.

Consolidated Appropriations Act (Mandatory GHG Reporting). 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 Greenhouse Gases Rule, which became effective January 1, 2010. Under the rule, suppliers of fossil fuels or industrial GHGs, manufacturers of vehicles and engines, and facilities that emit 25,000 metric tons or more per year 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 Clean Air Act permitting programs to limit which facilities will be required to obtain Prevention of Significant Deterioration and Title V permits.

The EPA estimates that facilities responsible for nearly 70 percent 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 Greenhouse Gas Emissions for New Stationary Sources: Electric Utility Generating Units. As required by a settlement agreement, the EPA proposed new performance standards for CO₂ emissions for new, affected, fossil fuel-fired electric utility generating units on March 27, 2012. New sources greater than 25 megawatts would be required to meet an output based standard of 1,000 pounds of CO₂ per megawatt-hour (MWh, based on the performance of widely used natural gas combined cycle technology.

Cap and Trade. Cap and trade refer 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. 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.

³² Beveridge & Diamond Professional Corporation. 2019. EPA Rescinds California's Authority to Regulate Vehicle Tailpipe Greenhouse Gas Emissions and to Implement a Zero-Emission Vehicle Program. September 23. Website: <https://www.bdlaw.com/publications/epa-rescinds-californias-authority-to-regulate-vehicle-tailpipe-greenhouse-gas-emissions-and-to-implement-a-zero-emission-vehicle-program/>. Accessed June 22, 2020.

The Western Climate Initiative partner jurisdictions have developed a comprehensive initiative to reduce regional GHG emissions to 15 percent below 2005 levels by 2020. The partners are California, British Columbia, Manitoba, Ontario, and Quebec. Currently only California and Quebec are participating in the Cap And Trade Program.³³

3.3.3 - 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 California Global Warming Solutions Act of 2006 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.

Assembly Bill 1493 Pavley Regulations and Fuel Efficiency Standards. California AB 1493, enacted on July 22, 2002, required the ARB 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 by the United States District Court for the District of Columbia in 2011.³⁴ The standards were to be phased in during the 2009 through 2016 model years.³⁵ It should be noted that the EPA recently rescinded California's waiver for its GHG and ZEV mandates; however, all ARB standards are still in effect at the time of this writing.³⁶

The second phase of the implementation for the Pavley Bill was incorporated into Amendments to the Low-emission Vehicle Program referred to as 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 is anticipated to reduce GHGs from new cars by 34 percent from 2016 levels by 2025. The new rules will reduce pollutants from 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 and hydrogen fuel cell cars. The regulations will also ensure adequate fueling infrastructure is available for the increasing numbers of hydrogen fuel cell vehicles planned for deployment in California.³⁷

³³ Center for Climate and Energy Solutions (C2ES). 2015. Multi-State Climate Initiatives. Website: <http://www.c2es.org/us-states-regions/regional-climate-initiatives>. Accessed January 9, 2020.

³⁴ California Air Resources Board (ARB). 2013. Clean Car Standards—Pavley, Assembly Bill 1493. Website: <http://www.arb.ca.gov/cc/ccms/ccms.htm>. Accessed February 14, 2017.

³⁵ California Air Resources Board (ARB). 2013. Facts About the Clean Cars Program. Website: http://www.arb.ca.gov/msprog/zevprog/factsheets/advanced_clean_cars_eng.pdf. Accessed February 14, 2017.

³⁶ Beveridge & Diamond Professional Corporation. 2019. EPA Rescinds California's Authority to Regulate Vehicle Tailpipe Greenhouse Gas Emissions and to Implement a Zero-Emission Vehicle Program. September 23. Website: <https://www.bdlaw.com/publications/epa-rescinds-californias-authority-to-regulate-vehicle-tailpipe-greenhouse-gas-emissions-and-to-implement-a-zero-emission-vehicle-program/>. Accessed June 22, 2020.

³⁷ California Air Resources Board (ARB). 2011. Status of Scoping Plan Recommended Measures. Website: www.arb.ca.gov/cc/scoping_plan/sp_measures_implementation_timeline.pdf. Accessed February 14, 2017.

Assembly Bill 32. The California State Legislature enacted AB 32, the California Global Warming Solutions Act of 2006. AB 32 requires that GHGs emitted in California be reduced to 1990 levels by the year 2020. “Greenhouse gases” as defined under AB 32 include CO₂, CH₄, N₂O, HFCs, PFCs, and SF₆. Since AB 32 was enacted, a seventh chemical, nitrogen trifluoride, has also been added to the list of GHGs.

The ARB is the State agency charged with monitoring and regulating sources of GHGs. The ARB approved the 1990 GHG emissions level of 427 MMT CO₂e on December 6, 2007.³⁸ Therefore, to meet the State’s target, emissions generated in California in 2020 are required to be equal to or less than 427 MMT CO₂e. Emissions in 2020 in a Business as Usual (BAU) scenario were estimated to be 596 MMT CO₂e, which do not account for reductions from AB 32 regulations.³⁹ At that rate, a 28 percent reduction was required to achieve the 427 MMT CO₂e 1990 inventory. In October 2010, ARB prepared an updated 2020 forecast to account for the effects of the 2008 recession and slower forecasted growth. Under the updated forecast, a 21.7 percent reduction from BAU is required to achieve 1990 levels.⁴⁰

California Air Resources Board Scoping Plan. The ARB Climate Change Scoping Plan (Scoping Plan) contains measures designed to reduce the State’s emissions to 1990 levels by the year 2020 to comply with AB 32.⁴¹ The Scoping Plan identifies recommended measures for multiple GHG emission sectors and the associated emission reductions needed to achieve the year 2020 emissions target—each sector has a different emission reduction target. Most of the measures target the transportation and electricity sectors. As stated in the Scoping Plan, the key elements of the strategy for achieving the 2020 GHG target include:

- Expanding and strengthening existing energy efficiency programs as well as building and appliance standards;
- Achieving a Statewide renewables energy mix of 33 percent;
- Developing a California cap-and-trade program that links with other Western Climate Initiative partner programs to create a regional market system;
- Establishing targets for transportation-related GHG emissions for regions throughout California and pursuing policies and incentives to achieve those targets;
- Adopting and implementing measures pursuant to existing State laws and policies, including California’s clean car standards, goods movement measures, and the Low Carbon Fuel Standard (LCFS); and
- Creating targeted fees, including a public goods charge on water use, fees on high global warming potential gases, and a fee to fund the administrative costs of the State’s long-term commitment to AB 32 implementation.

³⁸ California Air Resources Board (ARB). 2007. Staff Report. California 1990 Greenhouse Gas Level and 2020 Emissions Limit. November 16, 2007. Website: www.arb.ca.gov/cc/inventory/pubs/reports/staff_report_1990_level.pdf. Accessed February 14, 2017.

³⁹ California Air Resources Board (ARB). 2008. (includes edits made in 2009) Climate Change Scoping Plan, a framework for change. Website: http://www.arb.ca.gov/cc/scopingplan/document/adopted_scoping_plan.pdf. Accessed February 14, 2017.

⁴⁰ California Air Resources Board (ARB). 2010. 2020 Greenhouse Gas Emissions Projection and BAU Scenario Emissions Estimate. Website: http://www.arb.ca.gov/cc/inventory/archive/captrade_2010_projection.pdf. Accessed February 14, 2017.

⁴¹ California Air Resources Board (ARB). 2008. (includes edits made in 2009) Climate Change Scoping Plan, a framework for change. Website: http://www.arb.ca.gov/cc/scopingplan/document/adopted_scoping_plan.pdf. Accessed February 14, 2017.

In addition, the Scoping Plan differentiates between “capped” and “uncapped” strategies. Capped strategies are subject to the proposed cap-and-trade program. Implementation of the capped strategies is calculated to achieve a sufficient amount of reductions by 2020 to achieve the emission target contained in AB 32. Uncapped strategies that will not be subject to the cap-and-trade emissions caps and requirements are provided as a margin of safety by accounting for additional GHG emission reductions.⁴²

The ARB approved the First Update to the Scoping Plan on May 22, 2014. The First Update builds upon the Initial Scoping Plan with new strategies and recommendations.⁴³

Senate Bill 375—the Sustainable Communities and Climate Protection Act of 2008. Senate Bill (SB) 375 was signed into law on September 30, 2008. According to SB 375, the transportation sector is the largest contributor of GHG emissions, which emits over 40 percent 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: (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.

Senate Bill 32 and the 2017 Climate Change Scoping Plan Update. The Governor signed SB 32 in September 2016, giving the ARB the statutory responsibility to include the 2030 target previously contained in Executive Order B-30-15 in the 2017 Scoping Plan Update. SB 32 states that “In adopting rules and regulations to achieve the maximum technologically feasible and cost-effective greenhouse gas emissions reductions authorized by this division, the State [air resources] board shall ensure that statewide greenhouse gas emissions are reduced to at least 40 percent below the statewide greenhouse gas emissions limit no later than December 31, 2030.” The 2017 Climate Change Scoping Plan Update addressing the SB 32 targets was adopted on December 14, 2017. The major elements of the framework proposed to achieve the 2030 target are as follows:

1. SB 350
 - Achieve 50 percent renewables portfolio standard (RPS) by 2030.
 - Doubling of energy efficiency savings by 2030.
2. Low Carbon Fuel Standard
 - Increased stringency (reducing carbon intensity 18 percent by 2030, up from 10 percent in 2020).
3. Mobile Source Strategy (Cleaner Technology and Fuels Scenario)
 - Maintaining existing GHG standards for light- and heavy-duty vehicles.
 - Put 4.2 million ZEVs on the roads.
 - Increase ZEV buses, delivery and other trucks.
4. Sustainable Freight Action Plan
 - Improve freight system efficiency.

⁴² California Air Resources Board (ARB). 2008 (includes edits made in 2009). Climate Change Scoping Plan, a framework for change. Website: http://www.arb.ca.gov/cc/scopingplan/document/adopted_scoping_plan.pdf. Accessed February 14, 2017.

⁴³ California Air Resources Board (ARB). 2014. First Update to the Climate Change Scoping Plan. Website: <http://www.arb.ca.gov/cc/scopingplan/document/updatescopingplan2013.htm>. Accessed February 14, 2017.

- Maximize use of near-zero emission vehicles and equipment powered by renewable energy.
 - Deploy over 100,000 zero-emission trucks and equipment by 2030.
5. Short-Lived Climate Pollutant Reduction Strategy
 - Reduce emissions of methane and HFCs 40 percent below 2013 levels by 2030.
 - Reduce emissions of black carbon 50 percent below 2013 levels by 2030.
 6. SB 375 Sustainable Communities Strategies
 - Increased stringency of 2035 targets.
 7. Post-2020 Cap-and-Trade Program
 - Declining caps, continued linkage with Québec, and linkage to Ontario, Canada.
 - The ARB will look for opportunities to strengthen the program to support more air quality co-benefits, including specific program design elements. In Fall 2016, ARB staff described potential future amendments including reducing the offset usage limit, redesigning the allocation strategy to reduce free allocation to support increased technology and energy investment at covered entities and reducing allocation if the covered entity increases criteria or toxics emissions over some baseline.
 8. 20 percent reduction in GHG emissions from the refinery sector.
 9. By 2018, develop Integrated Natural and Working Lands Action Plan to secure California's land base as a net carbon sink.

Senate Bill 1368—Emission Performance Standards. In 2006, the State Legislature adopted SB 1368, which was subsequently signed into law by the Governor. SB 1368 directs the California Public Utilities Commission to adopt a performance standard for GHG emissions for the future power purchases of California utilities. SB 1368 seeks to limit carbon emissions associated with electrical energy consumed in California by forbidding procurement arrangements for energy longer than 5 years from resources that exceed the emissions of a relatively clean, combined cycle natural gas power plant. The California Public Utilities Commission adopted the regulations required by SB 1368 on August 29, 2007. The regulations implementing SB 1368 establish a standard for baseload generation owned by, or under long-term contract to publicly owned utilities, of 1,100 pounds CO₂ per MWh.

Senate Bill 1078—Renewable Electricity Standards. On September 12, 2002, Governor Gray Davis signed SB 1078, requiring California to generate 20 percent of its electricity from renewable energy by 2017. SB 107 changed the due date to 2010 instead of 2017. On November 17, 2008, Governor Arnold Schwarzenegger signed Executive Order S-14-08, which established an RPS target for California requiring that all retail sellers of electricity serve 33 percent of their load with renewable energy by 2020. Governor Schwarzenegger also directed the ARB (Executive Order S-21-09) to adopt a regulation by July 31, 2010, requiring the State's load serving entities to meet a 33 percent renewable energy target by 2020. The ARB approved the Renewable Electricity Standard on September 23, 2010 by Resolution 10-23.

Senate Bill 350—Clean Energy and Pollution Reduction Act of 2015. The legislature recently 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 electric vehicle charging stations. Provisions for a 50 percent reduction in the use of petroleum Statewide were removed from the Bill due to 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 percent to 50 percent by 2030, with interim targets of 40 percent by 2024, and 25 percent by 2027.
- Double the energy efficiency in existing buildings by 2030. This target will be achieved through the California Public Utility Commission (CPUC), the 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.⁴⁴

SBX 7-7—The Water Conservation Act of 2009. The legislation directs urban retail water suppliers to set individual 2020 per capita water use targets and begin implementing conservation measures to achieve those goals. Meeting this Statewide goal of 20 percent decrease in demand will result in a reduction of almost 2 million acre-feet in urban water use in 2020.

Senate Bill 100—The 100 Percent Clean Energy Act of 2018. The legislation directs the CPUC, CEC, and the ARB to plan for 100 percent of total retail sales of electricity in California to come from eligible renewable energy resources and zero-carbon resources by December 31, 2045. This Act amends Sections 399.11, 399.15, and 399.30 of, and adds Section 454.53 to, the Public Utilities Code, relating to energy.

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 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 percent 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.

⁴⁴ California Legislative Information (California Leginfo). 2015. Senate Bill 350 Clean Energy and Pollution Reduction Act of 2015. Website: https://leginfo.ca.gov/faces/billNavClient.xhtml?bill_id=20150160SB350. Accessed September 28, 2017.

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 percent by 2020. In particular, the executive order established a LCFS and directed the Secretary for Environmental Protection to coordinate the actions of the CEC, ARB, University of California, and other agencies to develop and propose protocols for measuring the “life-cycle carbon intensity” of transportation fuels. The ARB adopted the LCFS on April 23, 2009.

The LCFS was subject to legal challenge in 2011. Ultimately, on August 8, 2013, the Fifth District Court of Appeal (California) ruled that the ARB failed to comply with CEQA and the Administrative Procedure Act when adopting regulations for LCFS. In a partially published opinion, the Court of Appeal directed that Resolution 09-31 and two executive orders of the ARB approving LCFS regulations promulgated to reduce GHG emissions be set aside. However, the court tailored its remedy to protect the public interest by allowing the LCFS regulations to remain operative while ARB complies with the procedural requirements it failed to satisfy.

To address the Court ruling, the ARB 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 fuels, offer additional flexibility to regulated parties, update critical technical information, simplify and streamline program operations, and enhance enforcement. The second public hearing for the new LCFS regulation was held on September 24, 2015 and September 25, 2015, where the LCFS Regulation was adopted. The Final Rulemaking Package adopting the regulation was filed with the Office of Administrative Law (OAL) on October 2, 2015. The OAL approved the regulation on November 16, 2015.⁴⁵

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 Strategy⁴⁶ 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 percent 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 executive order sets a new interim Statewide GHG emission reduction target to reduce GHG emissions to 40 percent below 1990 levels by 2030 in order to ensure California meets its target

⁴⁵ California Air Resources Board (ARB). 2015. Low Carbon Fuel Standard Regulation. Website: <http://www.arb.ca.gov/regact/2015/lcfs2015/lcfs2015.htm>. Accessed September 22, 2017.

⁴⁶ California Natural Resources Agency. 2009. 2009 California Climate Adaptation Strategy. Website: https://cawaterlibrary.net/wp-content/uploads/2017/05/Statewide_Adaptation_Strategy.pdf. Accessed July 8, 2020.

of reducing GHG emissions to 80 percent below 1990 levels by 2050, and directs the ARB to update the Climate Change Scoping Plan to express the 2030 target in terms of metric ton (MT) CO₂e. The executive order also requires the State's climate adaptation plan to be updated every 3 years and for the State to continue its climate change research program, among other provisions.

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.

California Code of Regulations Title 13: Motor Vehicles. California Code of Regulations, Title 13: Division 3, Chapter 10, Article 1, Section 2485: Airborne Toxic Control Measure to Limit Diesel-Fueled Commercial Motor Vehicle Idling.⁴⁷ This measure seeks to reduce public exposure to DPM and other air contaminants by establishing idling restrictions, emission standards, and other requirements for heavy-duty diesel engines and alternative idle reduction technologies to limit the idling of diesel-fueled commercial motor vehicles. Any person that owns, operates, or causes to operate any diesel-fueled commercial motor vehicle must not allow a vehicle to idle for more than 5 consecutive minutes at any location, or operate a diesel-fueled auxiliary power system for greater than 5 minutes at any location when within 100 feet of a restricted area.

California Code of Regulations, Title 13: Division 3, Chapter 9, Article 4.8, Section 2449: General Requirements for In-Use Off-Road Diesel-Fueled Fleets. This measure regulates NO_x, DPM, and other criteria pollutant emissions from in-use off-road diesel-fueled vehicles. This measure also requires each fleet to meet fleet average requirements or demonstrate that it has met "best available control technology" requirements. Additionally, this measure requires medium and large fleets to have a written idling policy that is made available to operators of the vehicles informing them that idling is limited to 5 consecutive minutes or less.

Title 20 Appliance Efficiency Regulations. California Code of Regulations, 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. Twenty-three 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.

Title 24 Energy Efficiency Standards. California Code of Regulations 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

⁴⁷ Thomas Reuters Westlaw. 2020. California Code of Regulations, Title 13: Division 3, Chapter 10, Article 1, Section 2485: Airborne Toxic Control Measure to Limit Diesel-Fueled Commercial Motor Vehicle Idling. Website: [https://govt.westlaw.com/calregs/Document/I6DACC2EF0D6441DDA5B788DFEDCD1A22?viewType=FullText&originationContext=documenttoc&transitionType=StatuteNavigator&contextData=\(sc.Default\)](https://govt.westlaw.com/calregs/Document/I6DACC2EF0D6441DDA5B788DFEDCD1A22?viewType=FullText&originationContext=documenttoc&transitionType=StatuteNavigator&contextData=(sc.Default)). Accessed July 8, 2020.

methods. Energy efficient buildings require less electricity; therefore, increased energy efficiency reduces fossil fuel consumption and decreases GHG emissions. The newest version of Title 24 adopted by the CEC went into effect on January 1, 2020. One of the notable changes in the 2019 Title 24 Standards includes the solar photovoltaic systems requirement for new low-rise residential homes.

Title 24 California Green Building Standards Code. California Code of Regulations Title 24 Part 11 code is a comprehensive and uniform regulatory code for all residential, commercial, and school buildings that went in effect January 1, 2011. The code is updated on a regular basis, with the most recent update consisting of the 2019 California Green Building Code Standards that became effective January 1, 2020.⁴⁸ Local jurisdictions are permitted to adopt more stringent requirements, as State law provides methods for local enhancements. State building code provides the minimum standard that buildings need to meet in order to be certified for occupancy, which is generally enforced by the local building official.

Model Water Efficient Landscape Ordinance. The Model Water Efficient Landscape Ordinance (Ordinance) was required by AB 1881 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. Reductions in water use of 20 percent consistent with (SBX-7-7) 2020 mandate are expected for Ordinance. Governor Brown's Drought Executive Order of April 1, 2015 (Executive Order B-29-15) directed the California Department of Water Resources to update the Ordinance through expedited regulation. The California Water Commission approved the revised Ordinance on July 15, 2015, which became effective on December 15, 2015. New development projects that include landscaped areas of 500 square feet 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.

Senate Bill 97 and the CEQA Guidelines Revisions. 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 Office of Planning and Research 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 Office of Planning and Research pursuant to subdivision (a)."

Section 21097 was also added to the Public Resources Code, which provided an exemption 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

⁴⁸ State of California. 2020. CALGreen. Website: <https://www.dgs.ca.gov/BSC/Resources/Page-Content/Building-Standards-Commission-Resources-List-Folder/CALGreen>. Accessed July 8, 2020.

GHGs would not violate CEQA. The Natural Resources Agency completed the approval process, and the Amendments became effective on March 18, 2010.

The 2010 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.

California Supreme Court GHG Ruling

In a November 30, 2015 ruling, the California Supreme Court in *Center for Biological Diversity v. California Department of Fish and Wildlife on the Newhall Ranch project* concluded that whether the project was consistent with meeting Statewide emission reduction goals is a legally permissible criterion of significance, but the significance finding for the project was not supported by a reasoned explanation based on substantial evidence. The Court offered potential solutions on pages 25-27 of the ruling to address this issue summarized below:

Specifically, the 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 (page 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 greenhouse gas emissions from particular activities” (page 26).
- **Compliance with GHG Reduction Plans or Climate Action Plans.** A lead agency may utilize “geographically specific GHG emission reduction plans” such as Climate Action Plans (CAPs) or GHG emission reduction plans to provide a basis for the tiering or streamlining of project-level CEQA analysis (page 26).
- **Compliance with Local Air District Thresholds.** A lead agency may rely on “existing numerical thresholds of significance for greenhouse gas emissions” adopted by, for example, local air districts (page 27).

3.3.4 - Regional

The proposed project is within the SoCAB. The SCAQMD works directly with SCAG, local governments, and State and federal agencies to attain and maintain air quality standards. The applicable air quality plan for the project is the SCAQMD’s 2016 AQMP.

SCAQMD Regulation XXVII, Climate Change

SCAQMD Regulation XXVII currently includes three rules:

- The purpose of Rule 2700 is to define terms and post global warming potentials.
- The purpose of Rule 2701, SoCal Climate Solutions Exchange, is to establish a voluntary program to encourage, quantify, and certify voluntary, high quality certified GHG emission reductions in the SCAQMD.

- Rule 2702, GHG Reduction Program, was adopted on February 6, 2009. The purpose of this rule is to create a GHG Reduction Program for 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.

3.3.5 - Local

A lead agency may assess the significance of GHG emissions by determining a project's consistency with a local GHG reduction plan or CAP that qualifies under Section 15183.5 of the CEQA Guidelines. The City of Colton's CAP was adopted with the intent to fulfill this role.⁴⁹

The CAP is designed to ensure that the development accommodated by the buildout of the General Plan supports the goals of AB 32—the Global Warming Solutions Act of 2006. ARB adopted the State's strategy for achieving AB 32 targets in its Scoping Plan in 2008. The Scoping Plan GHG reduction goal is to reduce Statewide emissions to 1990 levels by 2020. The City of Colton CAP discusses various strategies that could collectively achieve this target. The CAP target is to reduce City emissions by the amount recommended in the Scoping Plan for local government of 15 percent below 2008 levels by 2020. This was roughly equivalent to the 28.4 percent overall reduction in statewide emissions from business as usual in 2020. The strategy will continue to provide reductions past 2020 and includes a commitment to update the CAP beginning in 2017. The updated plan will include a specific target for GHG reductions for 2035 and 2050. The targets will be consistent with broader state and federal reduction targets and with the scientific understanding of the needed reductions by 2050. The CAP includes analysis that includes the conceptual reductions required to achieve the percent reductions that would be required to achieve the levels needed to achieve the 2050 target outlined in Executive Order S-3-05, but the CAP does not include a comprehensive strategy to achieve the later targets pending adoption of a Statewide strategy for those later years.

To be considered a qualified CAP, the criteria outlined in the CEQA Guidelines Section 15083.5(b) needs to be met. The CAP meets some of the criteria, as discussed below:

- The CAP quantifies emissions for a 2008 base year and future inventories for 2020, 2030, and 2050 for the City.
- The CAP has adopted a target of reducing GHG emissions down to 15 percent below 2008 levels within the City of Colton by 2020. This reduction target is compliant with AB 32; the AB 32 Climate Change Scoping Plan states: "In recognition of the critical role local governments will play in the successful implementation of AB 32, ARB recommended a greenhouse gas reduction goal for local governments of 15 percent below today's levels by 2020 to ensure that their municipal and community-wide emissions match the State's reduction target" (Scoping Plan page ES-5, ARB December 2008). As such, the City is consistent with the State's efforts to reduce GHG emissions globally and substantially lessen the cumulative contribution.

⁴⁹ City of Colton. 2015. City of Colton Climate Action Plan. November 3. Website: https://www.ci.colton.ca.us/DocumentCenter/View/4338/Appdx-A-4_Climate-Action-Plan?bidId=. Accessed August 5, 2020.

- The CAP analyzed the GHG emissions resulting from specific sources under the jurisdiction of the City or within the City's ability to influence including source categories common to most climate action plans in California.
- The CAP identified specific measures that would reduce GHG emissions by the required amount from regulations that apply to existing and new development and local measures that apply to the sources of emissions including:
 - Land Use and Transportation
 - Transportation Facilities Strategies
 - Transportation Demand Strategies
 - Energy Conservation Strategies for New and Existing Buildings
 - Waste Diversion and Recycling and Energy Recovery
 - Strategies for Existing Development
 - Municipal Strategies
- The CAP includes procedures for tracking and monitoring plan performance measures including annual and triennial data collection and reporting to identify trends and potential shortfalls requiring corrective actions
- The CAP was included as part of a public review process and was adopted and certified in a public hearing on November 03, 2015 through Resolution No R-119-15.

The CAP includes binding and enforceable requirements that apply to development projects to ensure plan consistency. All emission reductions required to reach the plan 2020 targets are achieved through compliance with adopted regulations, ordinances, and code enforced by the State and the City. Reductions from mobile sources anticipated through implementation of the City's land use plan are enforced through the development review process. Conditions of approval may be applied for measures requiring project specific actions not specifically addressed by the regulation or code.

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SECTION 4: MODELING PARAMETERS AND ASSUMPTIONS

4.1 - Model Selection and Guidance

Regional air pollutant emissions are composed of those on-site and off-site construction and operational emissions generated from all facets of the proposed project. Air pollutant emissions can be estimated by using emission factors and a level of activity. Emission factors represent the emission rate of a pollutant over a given time or activity for example, grams of NO_x per vehicle mile traveled or grams of NO_x per horsepower hour of equipment operation. The activity factor is a measure of how active a piece of equipment is and can be represented as the amount of material processed, elapsed time that a piece of equipment is in operation, horsepower of a piece of equipment used, the amount of fuel consumed in a given amount of time, or VMT per day. The ARB has published emission factors for on-road mobile vehicles/trucks in the Emission Factor (EMFAC) mobile source emissions model and emission factors for off-road equipment and vehicles in the OFFROAD emissions model. An air emissions model (or calculator) combines the emission factors and the levels of activity and outputs the emissions for the various pieces of equipment.

The California Emissions Estimator Model (CalEEMod) was developed in cooperation with the SCAQMD and other air districts throughout the State. CalEEMod is designed as a uniform platform for government agencies, land use planners, and environmental professionals to quantify potential criteria pollutant and GHG emissions associated with construction and operation from a variety of land uses. The current version of CalEEMod, Version 2016.3.2, uses OFFROAD2011 and EMFAC2014 emission factors. Regional construction and operational emissions reported in this analysis were modeled using CalEEMod Version 2016.3.2.

4.1.1 - Construction

Construction emissions can vary substantially from day to day, depending on the level of activity, the specific type of operation, and prevailing weather conditions. Construction emissions result from on-site and off-site activities. On-site emissions principally consist of exhaust emissions from the activity levels of heavy-duty construction equipment, motor vehicle operation, and fugitive dust (mainly PM₁₀) from disturbed soil. Additionally, paving operations and application of architectural coatings would release VOC emissions. Off-site emissions are caused by motor vehicle exhaust from delivery vehicles, worker traffic, and road dust (PM₁₀ and PM_{2.5}).

Construction activities would consist of demolition, site preparation, mass grading, building construction, asphalt paving of roadways, and architectural coating of the inside and outside of the buildings. For each construction activity, the construction equipment operating hours and numbers represent the average equipment activity over the duration of the activity. A conceptual construction schedule is provided in Table 3 that presents the duration for each construction activity. Table 4 presents the number of assumed construction equipment along with hours of operation per day, horsepower, and load factor. Where project-specific information was not available or unknown, default assumptions were used to complete emissions modeling. The activity for construction equipment is based on the horsepower and load factors of the equipment. In general, the horsepower is the power of an engine—the greater the horsepower, the greater the power. The load

factor is the average power of a given piece of equipment while in operation compared with its maximum rated horsepower. A load factor of 1.0 indicates that a piece of equipment continually operates at its maximum operating capacity. This analysis uses the CalEEMod default load factors for off-road equipment.

The anticipated construction, as shown in Table 3, schedule reflects the construction start date and construction phase durations estimated by the project applicant. The construction schedule used in the analysis represents a “worst-case” analysis scenario since emission factors for construction equipment decrease as the analysis year increases, due to improvements in technology and compliance with more stringent regulatory requirements. Therefore, construction emissions would decrease if the construction schedule moves to later years. The duration of construction activity and associated equipment represent a reasonable approximation of the expected construction fleet as required by the CEQA Guidelines.

Table 3: Construction Schedule

Construction Activity	Conceptual Construction Schedule		Working Days per Week	Working Days
	Start Date	End Date		
Demolition	2/15/2021	7/2/2021	5	100
Site Preparation	7/3/2021	7/30/2021	5	20
Grading	7/31/2021	9/10/2021	5	30
Building Construction	9/11/2021	3/4/2022	5	125
Paving	3/5/2022	4/8/2022	5	25
Architectural Coating	4/9/2022	5/13/2022	5	25
Off-Site Improvements	9/25/2021	12/3/2021	5	50

Source: CalEEMod Output (Appendix A).

A summary of the on-site, off-road construction equipment usage assumptions used to estimate emissions is presented in Table 4.

Table 4: Project Construction Equipment Assumptions

Construction Activity	Equipment	Equipment Amount	Average Hours per day	Horsepower	Load Factor
Demolition	Concrete/Industrial Saws	1	8	81	0.73
	Excavators	3	8	158	0.38
	Rubber Tired Dozers	2	8	247	0.40
Site Preparation	Rubber Tired Dozers	3	8	247	0.40
	Tractors/Loaders/Backhoes	4	8	97	0.37
Grading	Excavators	2	8	158	0.38
	Graders	1	8	187	0.41

Construction Activity	Equipment	Equipment Amount	Average Hours per day	Horsepower	Load Factor
	Rubber Tired Dozers	1	8	247	0.40
	Scrapers	2	8	367	0.48
	Tractors/Loaders/Backhoes	3	8	97	0.37
Building Construction	Cranes	1	7	231	0.29
	Forklifts	3	8	89	0.2
	Generator Sets	1	8	84	0.74
	Tractors/Loaders/Backhoes	3	7	97	0.37
	Welders	1	8	46	0.45
Paving	Pavers	2	8	130	0.42
	Paving Equipment	2	8	132	0.36
	Rollers	2	8	80	0.38
Architectural Coating	Air Compressors	1	6	78	0.48
Off-Site Improvements (Site Preparation)	Graders	1	8	187	0.41
	Tractors/Loaders/Backhoes	1	8	97	0.37
Off-Site Improvements (Grading)	Concrete/Industrial Saws	1	8	81	0.73
	Rubber Tired Dozers	1	1	247	0.4
	Tractors/Loaders/Backhoes	2	6	97	0.37
Off-Site Improvements (Paving)	Cement and Mortar Mixers	4	6	9	0.56
	Pavers	1	7	130	0.42
	Rollers	1	7	80	0.38
	Tractors/Loaders/Backhoes	1	7	97	0.37

Source: CalEEMod Output (Appendix A).

A summary of the construction-related vehicle trips is shown in Table 5. During grading, it is expected that the proposed project would not require export of material to an off-site location based on information provided by the project applicant. However, project construction would import 1,238 cubic yards. In addition, haul trips associated with the demolition of buildings and the removal of the existing on-site hardscape are accounted for in the demolition phase; see Appendix C for the assumptions used to estimate the tons of debris assumed for the removal of hardscape. Additional vendor trips were added to account for transport of equipment and miscellaneous trips during the construction period. CalEEMod default values for trip lengths, and vehicle fleets were used. Note that the total number of off-site construction vehicle trips would not necessarily occur on the same day, since construction activities would vary each day during the construction period.

Table 5: Construction Off-site Trips

Construction Activity	Worker (Trips per day)	Vendor (Trips per day)	Haul (Total Trips)
Demolition	15	0	11,934
Site Preparation	18	0	0
Grading	20	0	155
Building Construction	869	340	0
Paving	15	0	0
Architectural Coating	174	0	0
Off-Site Improvements (Site Preparation)	5	0	0
Off-Site Improvements (Grading)	10	0	0
Off-Site Improvements (Paving)	18	0	0

Source: CalEEMod Output (Appendix A).

Fugitive Dust

During grading activities, fugitive dust can be generated from the movement of dirt on the project site. CalEEMod estimates dust from dozers moving dirt around, dust from graders or scrapers leveling the land, and loading or unloading dirt into haul trucks. Every project within the SCAQMD's jurisdiction is required to comply with the requirements of SCAQMD Rule 403 (Fugitive Dust). SCAQMD Rule 403 requires fugitive dust generating activities follow best available control measures to reduce emissions of fugitive dust. As shown in Table 6, per SCAQMD guidance, the Rule 403 measures are accounted for in CalEEMod through selection of the appropriate mitigation measures in CalEEMod. Development of the proposed project would include design features which would reduce fugitive dust compared to default values. Note that CalEEMod nominally treats these design elements and conditions as "mitigation measures," despite their inclusion in the project description.

Table 6: Best Available Control Measures

Best Available Control Measure		Associated Measure in CalEEMod
Clearing and Grubbing		
02-1	Maintain stability of soil through pre-watering of site prior to clearing and grubbing.	Water exposed surfaces three times per day 12 percent moisture content on unpaved roads
02-2	Stabilize soil during clearing and grubbing activities.	
02-3	Stabilize soil immediately after clearing and grubbing activities.	
Earth Moving Activities		
08-1	Pre-apply water to depth of proposed cuts	Water exposed surfaces three times per day
08-2	Re-apply water as necessary to maintain soils in a damp condition and to ensure that visible	

Best Available Control Measure		Associated Measure in CalEEMod
	emissions do not exceed 100 feet in any direction	
08-3	Stabilize soils once earth-moving activities are complete	
Import/Export of Bulk Materials		
09-1	Stabilize material while loading to reduce fugitive dust emissions.	Water exposed surfaces three times per day
09-3	Stabilize material while transporting to reduce fugitive dust emissions.	Water exposed surfaces three times per day 12 percent moisture content on unpaved roads
09-4	Stabilize material while unloading to reduce fugitive dust emissions.	
Landscaping		
10-1	Stabilize soils, materials, slopes	Water exposed surfaces three times per day
Staging Areas		
13-1	Stabilize staging areas during use by limiting vehicle speeds to 15 mph.	Reduce speed on unpaved roads to 15 mph.
Traffic Areas for Construction Activities		
15-1	Stabilize all off-road traffic and parking areas.	Water exposed surfaces three times per day 12 percent moisture content on unpaved roads
Source of Best Available Control Measures: South Coast Air Quality Management District (SCAQMD). 2005. Rule 403—Fugitive Dust. Amended June 3, 2005. Website: https://www.aqmd.gov/home/rules-compliance/compliance/rule-403-dust-control-information . Accessed December 1, 2019.		
Source of associated CalEEMod measures: CalEEMod Output (Appendix A).		

4.1.2 - Operation

The major sources operational emissions, which would occur over the long-term operations of the project, are summarized below.

Motor Vehicles

Motor vehicle emissions refer to exhaust and road dust emissions from the motor vehicles that would travel to and from and within the project site. The regional emissions from the project's mobile sources were estimated using CalEEMod. The proposed project would primarily generate passenger vehicle trips from employees and visitors traveling to and from the project site; however, the proposed project would also be served with daily truck deliveries. An estimate of the number of vehicle trips that the proposed project would generate was presented in the Barton Road Logistics Traffic Analysis, as shown in Table 7.

Table 7: Vehicle Trip Generation During Operations

Institute of Transportation Engineers (ITE) Code	Land Use	Project Size	Units	Total Daily Trips
154	High-Cube Transload Short-Term Warehouse without Cold Storage	960.040	tsf	1,348
Note: Tsf=thousand square feet Source: Urban Crossroads, Inc. 2020. Barton Road Logistics Traffic Analysis. September 8.				

The trip summary shown in Table 7 includes trips from both passenger vehicles and trucks. The Traffic Analysis reports that trips from passenger cars would account for 1,130 of the 1,348 total daily trips generated by the proposed project.⁵⁰

Industrial land use projects, including warehouse projects, can be expected to have longer than average truck trip lengths compared to the default trip length in CalEEMod (6.9 miles to 16.6 miles for the San Bernardino County portion of the SoCAB). To estimate mobile-source emissions from trucks during project operations, a one-way truck trip length of 40 miles was assumed based on recommendations from the SCAQMD for warehouse-type projects. To use a longer trip length for trucks, modeling of the project's mobile operations was split into two separate CalEEMod runs: (1) area-source emissions, energy-source emissions, and passenger vehicle mobile-source emissions; and (2) truck mobile-source emissions. The vehicle types in the first operational run were adjusted so that only passenger vehicles were represented. Since there are various types of passenger vehicles included in CalEEMod, the CalEEMod default fleet mix for the San Bernardino County portion of the SoCAB was used as the basis for the determining the passenger car fleet mix used in the first operational year. The number of daily operational vehicle trips used to estimate emissions were consistent with those presented in the project-specific traffic study.

Emission factors are assigned to the expected vehicle mix as a function of vehicle age, vehicle class, speed, and fuel type. The overall operational fleet mix used to assess emissions from the proposed project is shown below in Table 8.

Table 8: Vehicle Type Classification

Vehicle Type	Classification	Fleet Mix
Passenger Vehicle	LDA	52.32%
	LDT1	3.44%
	LDT2	17.05%
	MDT	11.01%
2-Axle	LHDT1	2.03%

⁵⁰ Urban Crossroads, Inc. 2020. Barton Road Logistics Traffic Analysis. September 8.

Vehicle Type	Classification	Fleet Mix
	LHDT2	0.64%
3-Axle	MHDT	3.41%
4-Axle	HHDT	10.09%
Notes: LDA=Light Duty Auto LDT=Light Duty Truck LHDT=Light Heavy Duty Truck MD=Medium Duty MDT=Medium Duty Truck MHDT=Medium Heavy Duty Truck HHDT=Heavy Duty Truck Source: Appendix A.		

Other Emission Sources

Area Sources

In addition to typical mobile- and energy-source emissions, long-term operational emissions also include area-source emissions. Area-source emissions include occasional architectural coating activities for repainting and maintenance of building associated with the proposed industrial center. CalEEMod assumes that repainting occurs at a rate of 10 percent of the buildings per year. Therefore, on average, it is assumed that the building would be fully repainted every 10 years.

Other area-source emissions include consumer products that involve solvents that emit VOCs during use. CalEEMod includes default consumer product use rates based on building square footage. The default emission factors developed for CalEEMod were used for consumer products associated with parking uses. The general consumer product category was updated based on 2017 ARB VOC inventory data and 2017 population estimates based on the State of California's Department of Finance demographic projections were used to estimate a statewide VOC emission factor for 2017. The default general consumer product emission factor is based on 2008 ARB VOC inventory data using the same methodology applied to calculate the updated VOC emission factor for general consumer products. Lastly, CalEEMod default emission factors for landscape maintenance equipment were used in this analysis.

Indirect Emissions

For GHG emissions, CalEEMod contains calculations to estimate indirect GHG emissions. Indirect emissions are emissions where the location of consumption or activity is different from where actual emissions are generated. For example, electricity would be consumed at the proposed project site; however, emissions associated with producing that electricity are generated off-site at a power plant.

CalEEMod includes calculations for indirect GHG emissions for electricity consumption, water consumption, and solid waste disposal. For water consumption, CalEEMod calculates embedded energy (e.g., treatment, conveyance, distribution) associated with providing each gallon of potable water to the project site. For solid waste disposal, CalEEMod calculates GHG emissions generated as solid waste generated by the proposed project decomposes in a landfill.

For electricity-related emissions, CalEEMod contains default electricity intensity factors for various utilities throughout California. CalEEMod does not contain factors City of Colton Electric Utility; therefore, emissions factors were calculated using the latest available content power label for Colton Electric Utility and compliance with the Renewable Portfolio Standard. The factors listed below were applied in estimating project emissions for the year 2022.

- Carbon dioxide: 598.29 pound per megawatt hour (lb/MWh)
- Methane: 0.029 lb/MWh
- Nitrous oxide: 0.006 lb/MWh

4.2 - Emissions Model Selection—Localized Assessment

Whereas the regional estimation of emissions quantifies the project's emissions throughout the region, the estimation of the project's local construction and operational emissions focuses on emissions that the proposed project would generate on the project site.

4.2.1 - Localized Assessment—Construction

The project's localized construction emissions would consist of those emissions generated from on-site construction activities including demolition, site preparation, grading, building construction, paving, and architectural coating. Operation of off-road construction equipment and generation of fugitive dust from earth-moving activities result in localized construction emissions. CalEEMod provides emissions outputs that separate on- and off-site construction emissions. For the localized emissions screening analysis, only on-site emissions were used to compare with SCAQMD's Localized Significant Thresholds (LSTs).

4.2.2 - Localized Assessment—Operation

The project's operational emissions occur from a variety of sources described above; however, most long-term operational emissions occur off-site as mobile-source emissions. The localized assessment methodology limits analyzed emissions to those generated from on-site activities. Therefore, only on-site operational emissions were used to compare with SCAQMD's operational LSTs. A trip length of 0.1 mile was used in the modeling input assumptions to account for on-site emissions from mobile sources based on the measured on-site trip length, which provides for a reasonably worst-case scenario.

4.3 - Air Dispersion Modeling

An air dispersion model is a mathematical formulation used to estimate air quality impacts at specific locations (receptors) surrounding a source of emissions given the rate of emissions and prevailing meteorological conditions. The air dispersion model applied in this assessment was the EPA American Meteorological Society Regulatory Model (AERMOD), Version 19191, air dispersion model, which is approved by the SCAQMD for air dispersion assessments. Specifically, the AERMOD model was used to estimate levels of air emissions at sensitive receptor locations from project construction PM₁₀ exhaust emissions. The AERMOD model provides a refined methodology for estimating localized construction and operational impacts by utilizing long-term, measured representative meteorological data for the project site and a representative construction schedule.

Terrain elevations were obtained for the project site using the AERMAP model, the AERMOD terrain data pre-processor. The urban dispersion option was used to describe air dispersion in the local vicinity of the project. The air dispersion model assessment was performed using meteorological data from the Fontana Station, which is within Source Receptor Area (SRA) 34.

4.3.1 - Air Dispersion Modeling—Construction

Receptor locations within the AERMOD model were placed at locations of existing residences surrounding the project site. To evaluate the proposed project's localized construction impacts, sensitive receptor height should be considered at the point of maximum impact. The SCAQMD recommends that all receptors are placed within the breathing zone at zero meters above ground level.

The on-site construction area sources were assumed to cover the entire construction area. Emissions from the on-site construction exhaust source were assumed to be emitted at five meters above ground to account for the top of equipment exhaust stacks where emissions are released to the atmosphere and the increase in emission height due to its heated exhaust. The off-site construction vehicle emissions were represented in the AERMOD model as line volume sources with a release height of 10.2 feet (3.1 meters) for diesel vehicles.

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SECTION 5: AIR QUALITY IMPACT ANALYSIS

This section calculates expected emissions from construction and operation of the proposed project as a necessary requisite for assessing regulatory significance of project emissions on a regional and localized level.

5.1 - CEQA Guidelines

The CEQA Guidelines define a significant effect on the environment as “a substantial, or potentially substantial, adverse change in the environment.” To determine if a project would have a significant impact on air quality, the type, level, and impact of emissions generated by the proposed project must be evaluated.

While the final determination of whether a project is significant is within the purview of the Lead Agency pursuant to Section 15064(b) of the CEQA Guidelines, SCAQMD recommends that its quantitative air pollution thresholds be used to determine the significance of project emissions. If the Lead Agency finds that the proposed project has the potential to exceed these air pollution thresholds, the proposed project would be considered to have significant air quality impacts.

5.1.1 - Thresholds of Significance

According to CEQA Guidelines Appendix G, to determine whether impacts related to air quality are significant environmental effects, the following questions are analyzed and evaluated.

Would the project:

- 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 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 developed daily regional and localized thresholds of significance to evaluate construction and operational emissions within its jurisdiction to address CEQA Guidelines. Established emissions thresholds were based on attainment status of the air basin relative to air quality standards for specific criteria pollutants. Because concentration standards were set at a level that protects public health with an adequate margin of safety, these emissions thresholds are considered conservative and would overstate an individual project’s contribution related to air quality and health risks.

Regional Thresholds

Construction Emissions

Projects in the SoCAB would generate significant construction-related regional emissions if daily emissions would exceed:

- 75 pounds per day of VOC, also known as reactive organic gases;
- 100 pounds per day of NO_x;
- 550 pounds per day of CO;
- 150 pounds per day of sulfur oxides (SO_x);
- 150 pounds per day of PM₁₀; or
- 55 pounds per day of PM_{2.5}.

Regional Thresholds for Operational Emissions

Projects in the SoCAB would generate significant operational regional emissions if daily emissions would exceed:

- 55 pounds per day of VOC;
- 55 pounds per day of NO_x;
- 550 pounds per day of CO;
- 150 pounds per day of SO_x;
- 150 pounds per day of PM₁₀; or
- 55 pounds per day of PM_{2.5}.

Localized Air Quality Significance Thresholds

The SCAQMD recommends that all air quality analyses include a localized assessment of both construction and operational emissions on nearby sensitive receptors. The SCAQMD has developed LSTs to be implemented at the discretion of local public agencies acting as a lead agency pursuant to CEQA. LSTs represent maximum mass emissions from a project site that would not result in pollutant concentrations that exceed NAAQS or CAAQS. LSTs are based on ambient concentrations of that pollutant within the SRA where a project is located, distance to nearest sensitive receptor, and size of the project site, all of which are the primary factors that influence pollutant concentrations.

The SCAQMD provided the Final Localized Significance Threshold Methodology (dated June 2003, revised 2009) for guidance. The LST Methodology assists lead agencies in analyzing localized air quality impacts, particularly CO, NO_x, PM₁₀, and PM_{2.5}. The SCAQMD provides LST mass rate look-up tables for projects with active construction areas that are less than or equal to 5 acres. These LST look-up values are provided to be used as a screening tool for identifying whether a more detailed analysis is needed for localized impacts. The appropriate LSTs can be determined based on the project's SRA, size, and distance to nearest sensitive receptor. The appropriate SRA for the LSTs is Central San Bernardino Valley (SRA 34) since this area includes the project site. LSTs apply to CO, NO₂, PM₁₀, and PM_{2.5}. LSTs were obtained for sensitive receptors located 25 meters from the source area based on the proposed project's proximity to existing sensitive receptors.

Construction

The SCAQMD has published a “Fact Sheet for Applying CalEEMod to Localized Significance Thresholds.” CalEEMod calculates construction emissions based on quantity and types of construction equipment, equipment hours, rates of emission, and maximum daily disturbance activity possible for each piece of equipment for several land use projects and their developmental intensity. The daily maximum disturbed area during construction serves as a factor in determining the project size value of the applicable LSTs for construction. Table 9 shows maximum daily disturbed acreage during construction based on types and numbers of construction equipment used for each activity, as identified by CalEEMod. The maximum daily area disturbed during construction is 3 acres.

Table 9: Equipment Specific Site Preparation and Grading Disturbed Area Rates

Construction Activity ¹	Off-road Equipment Type	Equipment Quantity	Operating Hours per Day	Acres Graded per 8-hour Day	Acres Graded per Day
Demolition	Concrete/Industrial Saws	1	8	0.0	0.0
	Excavators	3	8	0.0	0.0
	Rubber Tired Dozers	2	8	0.5	1.0
	Maximum Daily Disturbed Area (Demolition)				1.0
Site Preparation	Rubber Tired Dozers	3	8	0.5	1.5
	Tractors/Loaders/Backhoes	4	8	0.0	0.0
	Maximum Daily Disturbed Area (Site Preparation)				1.5
Grading	Excavators	2	8	0.0	0.0
	Graders	1	8	0.5	0.5
	Rubber Tired Dozers	1	8	0.5	0.5
	Scrapers	2	8	1.0	2.0
	Tractors/Loaders/Backhoes	2	8	0.0	0.0
	Maximum Daily Disturbed Area (Grading)				3.0
Maximum Daily Disturbed Area from Any Construction Activity					3.0
Notes:					
¹ Assumes overlap of construction activities based on schedule presented in Table 3; there is no overlap of demolition, site preparation, and grading activities.					

Construction and Operation

As noted earlier, the SCAQMD has defined LSTs for project areas up to 5 acres in size. Specifically, LSTs are provided for one-, two-, and five-acre sites. Table 10 shows the LSTs for NO₂, CO, PM₁₀, and PM_{2.5} for both construction and operational activities for with sensitive receptors being 25 meters away. If a project exceeds an applicable LST, then the SCAQMD recommends that project-specific air quality modeling be performed.

Table 10: SCAQMD Local Air Quality Screening Thresholds

Activity	Allowable Emissions (pounds/day)			
	NO _x	CO	PM ₁₀	PM _{2.5}
Construction				
Construction (2-acre site)	170	972	7	4
Operation				
Operation (5-acre site)	270	1,746	4	2
Notes: Source: SCAQMD Mass Rate Look-Up Tables for sites in SRA 34 for sensitive receptors located 25 meters (82 feet) from the project site.				

Carbon Monoxide Hotspot Thresholds

A CO hotspot represents a condition wherein high concentrations of CO may be produced by motor vehicles accessing a congested traffic intersection under heavy traffic volume conditions. It has long been recognized that CO exceedances are caused by vehicular emissions, primarily when idling at intersections. Accordingly, vehicle emissions standards have become increasingly more stringent. Before the first vehicle emission regulations, cars in the 1950s were typically emitting about 87 grams of CO per mile (EPA).

Since the first regulation of CO emissions from vehicles (model year 1966) in California, vehicle emissions standards for CO applicable to light duty vehicles have decreased by 96 percent for automobiles, and new cold weather CO standards have been implemented, effective for the 1996 model year. Currently, the CO standard in California is a maximum of 3.4 grams/mile for passenger cars (with provisions for certain cars to emit even less). With the turnover of older vehicles, introduction of cleaner fuels and implementation of control technology on industrial facilities, CO concentrations in the SCAQMD have steadily declined.

The analysis prepared for CO attainment in the SoCAB by the SCAQMD can be used to assist in evaluating potential for CO exceedances in the SoCAB. CO attainment was thoroughly analyzed as part of the SCAQMD's 2003 AQMP and the 1992 Federal Attainment Plan for Carbon Monoxide (1992 CO Plan). As discussed in the 1992 CO Plan, peak CO concentrations in the SoCAB are due to unusual meteorological and topographical conditions, and not due to the impact of particular intersections. Considering the region's unique meteorological conditions and the increasingly stringent CO emissions standards, CO modeling was performed as part of 1992 CO Plan and subsequent plan updates and AQMPs. In the 1992 CO Plan, a CO hot spot analysis was conducted for four busy intersections in Los Angeles at the peak morning and afternoon time periods. The intersections evaluated included Long Beach Boulevard and Imperial Highway (Lynwood); Wilshire Boulevard and Veteran Avenue (Westwood); Sunset Boulevard and Highland Avenue (Hollywood); and La Cienega Boulevard and Century Boulevard (Inglewood). These analyses did not predict a violation of CO standards. 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.

Considering this information, the proposed project would result in a less than significant impact to localized CO concentration if the project traffic would not increase traffic volumes at affected intersections to more than those modeled in the 2003 AQMP.

Health Risk Significance Thresholds

For pollutants without defined significance standards or air contaminants not covered by the standard criteria cited above, the definition of substantial pollutant concentrations varies. For toxic TACs, “substantial” is taken to mean that the individual cancer risk exceeds a threshold considered a prudent risk management level.

The SCAQMD has defined several health risk significance thresholds that it recommends Lead Agencies use in assessing a project’s health risk impacts. The City has not adopted its own set of thresholds. Therefore, the following SCAQMD thresholds are used for this analysis.

Project-Specific Health Risk Significance Thresholds

The SCAQMD has established the following project-specific health risk significance thresholds:⁵¹

- Maximum Incremental Cancer Risk: ≥ 10 in 1 million.
- Hazard Index (project increment) ≥ 1.0 .

A significant impact would occur if a project’s impacts exceeded any of these thresholds.

Cumulative Health Risk Significance Thresholds

The SCAQMD has published guidance on how to address cumulative impacts from air pollution.⁵² In the report, the SCAQMD clearly states:

... 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

⁵¹ South Coast Air Quality Management District (SCAQMD). 2015. Fact Sheet for Applying CalEEMod to Localized Significance Thresholds. Website: <http://www.aqmd.gov/docs/default-source/ceqa/handbook/localized-significance-thresholds/caleemod-guidance.pdf?sfvrsn=2>. Accessed December 30, 2019.

⁵² South Coast Air Quality Management District (SCAQMD). 2003. White Paper on Potential Control Strategies to Address Cumulative Impacts from Air Pollution. Website: <http://www.aqmd.gov/docs/default-source/Agendas/Environmental-Justice/cumulative-impacts-working-group/cumulative-impacts-white-paper.pdf?sfvrsn=2>. Accessed December 30, 2019.

cumulative significance thresholds are the same. Conversely, projects that do not exceed the project-specific thresholds are generally not considered to be cumulatively significant.

5.2 - Impact Analysis

5.2.1 - Consistency with Air Quality Management Plan

Impact AIR-1: **The project would not conflict with or obstruct implementation of the applicable air quality plan.**

Impact Analysis

To evaluate whether or not a project conflicts with or obstructs implementation of the applicable air quality plan (2016 AQMP for the SoCAB), the SCAQMD CEQA Air Quality Handbook states that there are two key indicators. These indicators are identified by the criteria discussed below.

1. **Indicator:** Whether the 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 timely attainment of air quality standards or the interim emission reductions specified in the AQMP.
2. **Indicator:** According to Chapter 12 of the SCAQMD CEQA Air Quality Handbook, the purpose of the General Plan consistency findings is to determine whether a project is inconsistent with the growth assumptions incorporated into the air quality plan, and thus, whether it would interfere with the region's ability to comply with federal and California air quality standards.

Considering the recommended criteria in the SCAQMD's 1993 Handbook, this analysis uses the following criteria to address this potential impact:

- **Criterion 1:** Project's contribution to air quality violations (SCAQMD's first indicator);
- **Criterion 2:** Assumptions in AQMP (SCAQMD's second indicator); and
- **Criterion 3:** Compliance with applicable emission control measures in the AQMPs.

Criterion 1: Project's Contribution to Air Quality Violations

According to the SCAQMD, the project is consistent with the AQMP if the project would not result in an increase in the frequency or severity of existing air quality violations or cause or contribute to new violations, or delay timely attainment of air quality standards or the interim emission reductions specified in the AQMP.⁵³

If a project's emissions do not exceed the SCAQMD regional thresholds for VOC, NO_x, CO, SO_x, PM₁₀, or PM_{2.5}, it follows that the project's emissions would not exceed the allowable limit for each project in order for the region to attain and maintain ambient air quality standards, which is the primary goal of air quality plans. As shown in Impact AIR-2, the proposed project would not exceed the SCAQMD's regional thresholds of significance after incorporation of Mitigation Measure (MM) AIR-1.

⁵³ South Coast Air Quality Management District (SCAQMD). 1993. CEQA Handbook. Available at SCAQMD, 21865 Copley Drive, Diamond Bar, CA 91765.

MM AIR-1 requires the use of coatings with a VOC standard equal to or less than 10 grams per liter for on-site architectural coating activities during construction of the proposed project. This measure would be required to reduce the potential impact related the maximum daily generation of VOC during construction of the project to a less-than-significant level. The proposed project would not exceed the SCAQMD's regional thresholds of significance during construction or operation of the project after implementation of MM AIR-1. Therefore, the proposed project would be consistent with the AQMP after incorporation of mitigation. The project meets this criterion.

Criterion 2: Assumptions in the Air Quality Management Plan

The development of emission burdens used in AQMPs to demonstrate compliance with ambient air quality standards is based, in part, on land use patterns contained within local general plans.

The SCAQMD CEQA Air Quality Handbook indicates that consistency with AQMP growth assumptions must be analyzed for new amended General Plan elements, Specific Plans, and significant projects.⁵⁴ Significant projects include airports, electrical generating facilities, petroleum and gas refineries, designation of oil drilling districts, water ports, solid waste disposal sites, and offshore drilling facilities. The project would include construction and development of two industrial warehouse buildings and would not engage in any activities that would constitute a significant project as defined by the SCAQMD CEQA Air Quality Handbook.

Furthermore, the proposed project is not growth inducing and would have no significant impacts associated with growth inducement from implementation. Because there would also not be impacts related to long-term project operation, it follows that the proposed project would not result in growth and associated emissions unforeseen in any local or regional plans. Therefore, the proposed project would not be significant regarding the second criterion.

Criterion 3: Control Measures

The AQMP contains several control measures which are enforceable requirements through the adoption of rules and regulations. SCAQMD rules and regulations relevant to the proposed project are described in Section 2.4.2. The proposed project would comply with all applicable SCAQMD rules and regulations. Because of the nature of the proposed project, which includes earthmoving activity, SCAQMD Rule 403 applies. As previously mentioned, Rule 403 governs emissions of fugitive dust during construction and operation activities. The rule requires that fugitive dust be controlled with best available control measures so that the presence of such dust does not remain visible in the atmosphere beyond the property line of the emission source. In addition, SCAQMD Rule 403 requires implementation of dust suppression techniques to prevent fugitive dust from creating a nuisance off-site. Compliance with this rule is achieved through application of standard BMPs. These BMPs include application of water or chemical stabilizers to disturbed soils; covering haul vehicles; restricting vehicle speeds on unpaved roads to 15 mph; sweeping loose dirt from paved site access roadways; cessation of construction activity when winds exceed 25 mph; and establishing a permanent ground cover on finished sites. The project's compliance with all applicable SCAQMD rules and regulations would result in consistency with the applicable AQMP control measures.

⁵⁴ South Coast Air Quality Management District (SCAQMD). 1993. CEQA Handbook. Available at SCAQMD, 21865 Copley Drive, Diamond Bar, CA 91765.

Summary

In summary, the proposed project would not exceed the growth assumptions in the AQMP. The project would not result in a regional exceedance of criteria air pollutants after the incorporation of MM AIR-1. Furthermore, the proposed project would comply with all applicable SCAQMD rules and regulations. Accordingly, the proposed project would not conflict with or obstruct implementation of the applicable air quality plans, and, therefore, the impact would be less than significant after incorporation of mitigation.

Level of Significance Before Mitigation

Potentially significant impact.

Mitigation Measures

Implement MM AIR-1 (see Impact AIR-2).

Level of Significance After Mitigation

Less than significant impact within mitigation.

5.2.2 - Cumulative Impacts

Impact AIR-2:	The project would not result in a cumulatively considerable net increase of any criteria pollutant for which the project region is non-attainment under an applicable federal or state ambient air quality.

Impact Analysis

This impact is related to the cumulative effect of a project's regional criteria pollutant emissions. As described above in Section 2.3, the region is currently nonattainment for ozone, PM₁₀, and PM_{2.5}. By its nature, air pollution is largely a cumulative impact resulting from emissions generated over a large geographic region. The nonattainment status of regional pollutants is a result of past and present development within the air basin, and this regional impact is a cumulative impact. In other words, new development projects (such as the proposed project) within the air basin would contribute to this impact only on a cumulative basis. No single project would be sufficient in size, by itself, to result in nonattainment of regional air quality standards. Instead, a project's emissions may be individually limited, but cumulatively considerable when taken in combination with past, present, and future development projects. All new development that would result in an increase in air pollutant emissions above those assumed in regional air quality plans would contribute to cumulative air quality impacts.

The cumulative analysis focuses on whether a specific project would result in cumulatively considerable emissions. According to Section 15064(h)(4) of the CEQA Guidelines, the existence of significant cumulative impacts caused by other projects alone does not constitute substantial evidence that the project's incremental effects would be cumulatively considerable.

Rather, the determination of cumulative air quality impacts for construction and operational emissions is based on whether the project would result in regional emissions that exceed the

SCAQMD regional thresholds of significance for construction and operations on a project level. Projects that generate emissions below the SCAQMD significance thresholds would be considered consistent with regional air quality planning efforts would not generate cumulatively considerable emissions.

The proposed project's regional construction and operational emissions, which include both on- and off-site emissions, are evaluated separately below. Construction and operational emissions from the proposed project were estimated using CalEEMod Version 2016.3.2. A detailed description of the assumptions used to estimate emissions and the complete CalEEMod output files are contained in Appendix A.

Cumulative Construction Emissions

Construction emissions are described as “short-term” or temporary in duration; however, they have the potential to represent a significant impact with respect to air quality. Construction of the proposed project would result in the temporary generation of VOC, NO_x, CO, SO_x, PM₁₀, and PM_{2.5} emissions from construction activities such as demolition, site preparation, grading, building construction, architectural coating, and asphalt paving. Fugitive dust emissions are primarily associated with earth disturbance and grading activities, and vary as a function of soil silt content, soil moisture, wind speed, acreage of disturbance area, and miles traveled by construction vehicles on-site and off-site. Construction-related NO_x emissions are primarily generated by exhaust emissions from heavy-duty construction equipment, material and haul trucks, and construction worker vehicles. VOC emissions are mainly generated by exhaust emissions from construction vehicles, off-gas emissions associated with architectural coatings, and asphalt paving.

As shown in Table 3 (Section 4-Modeling Parameters and Assumptions), the proposed project is anticipated to begin in February 2021 and conclude in May 2022. The anticipated construction schedule reflects the construction start date and the construction phase durations estimated by the project applicant. The construction schedule used in the analysis represents a reasonable worst-case analysis scenario since a delay in construction dates into the future would result in using emission factors for construction equipment that decrease as the analysis year increases, due to improvements in technology and the need to meet more stringent regulatory requirements. Therefore, construction emissions would decrease if the construction schedule moves to later years. The duration of construction activity and associated equipment represent a reasonable approximation of the expected construction fleet as required by CEQA Guidelines. For a more detailed description of the construction emissions modeling parameters and assumptions, please refer to Section 4-Modeling Parameters and Assumptions.

Table 11 presents the project's maximum daily construction emissions for each construction activity and during the entire construction duration using the worst-case summer or winter daily construction-related criteria pollutant emissions for each phase of construction. Complete CalEEMod output files are included as part of Appendix A.

Table 11: Regional Construction Emissions by Construction Activity (Unmitigated)

Construction Activity	Regional Pollutant Emissions (pounds per day)					
	VOCs	NO _x	CO	SO _x	PM ₁₀	PM _{2.5}
Demolition (Removal of Existing Hardscape)	4.0	58.7	26.4	0.1	14.0	3.7
Site Preparation	4.0	40.6	21.9	0.0	9.3	5.8
Grading	4.3	47.6	31.9	0.1	5.7	3.3
Building Construction (2021)	7.2	53.0	58.7	0.2	13.0	4.2
Building Construction (2022)	6.6	49.2	55.1	0.2	12.8	4.1
Paving	1.9	11.2	15.2	0.0	0.7	0.6
Architectural Coating	369.4	1.9	8.4	0.0	2.0	0.6
Off-site Improvements	0.9	7.8	8.0	0.0	0.8	0.6
Maximum Daily Emissions¹	369.4	60.8	66.7	0.2	14.0	5.8
SCAQMD Significance Threshold	75	100	550	150	150	55
Exceed Threshold?	Yes	No	No	No	No	No
Notes: ¹ Assumes overlap of construction activities based on schedule presented in Table 3. The PM ₁₀ and PM _{2.5} emissions reflect the combined exhaust and mitigated fugitive dust emissions in accordance with SCAQMD Rule 403. Source of emissions: Appendix A. Source of thresholds: South Coast Air Quality Management District (SCAQMD). 2015. SCAQMD Air Quality Significance Thresholds. March. Website: http://www.aqmd.gov/home/rules-compliance/ceqa/air-quality-analysis-handbook . Accessed August 8, 2020.						

As shown in above in Table 11, the project's construction emissions would exceed the applicable significance threshold for VOC. Therefore, the proposed project would have a potentially significant impact related to air quality during project construction prior to the incorporation of mitigation. MM AIR-1, which requires the proposed project to use coatings with a VOC standard equal to or less than 10 grams per liter for on-site architectural coating activities, would be required to reduce the potential impact to a less-than-significant level.

Table 12 presents the proposed project's maximum daily construction emissions after the incorporation of MM AIR-1.

Table 12: Regional Construction Emissions by Construction Activity (Mitigated)

Construction Activity	Regional Pollutant Emissions (pounds per day)					
	VOCs	NO _x	CO	SO _x	PM ₁₀	PM _{2.5}
Demolition (Removal of Existing Hardscape)	4.0	58.7	26.4	0.1	14.0	3.7
Site Preparation	4.0	40.6	21.9	0.0	9.3	5.8

Construction Activity	Regional Pollutant Emissions (pounds per day)					
	VOCs	NO _x	CO	SO _x	PM ₁₀	PM _{2.5}
Grading	4.3	47.6	31.9	0.1	5.7	3.3
Building Construction (2021)	7.2	53.0	58.7	0.2	13.0	4.2
Building Construction (2022)	6.6	49.2	55.1	0.2	12.8	4.1
Paving	1.9	11.2	15.2	0.0	0.7	0.6
Architectural Coating	49.0	1.9	8.4	0.0	2.0	0.6
Off-site Improvements	0.9	7.8	8.0	0.0	0.8	0.6
Maximum Daily Emissions¹	49.0	60.8	66.7	0.2	14.0	5.8
SCAQMD Significance Threshold	75	100	550	150	150	55
Exceed Threshold?	No	No	No	No	No	No
Notes: ¹ Assumes overlap of construction activities based on schedule presented in Table 3. The PM ₁₀ and PM _{2.5} emissions reflect the combined exhaust and mitigated fugitive dust emissions in accordance with SCAQMD Rule 403. Source of emissions: Appendix A. Source of thresholds: South Coast Air Quality Management District (SCAQMD). 2015. SCAQMD Air Quality Significance Thresholds. March. Website: http://www.aqmd.gov/home/rules-compliance/ceqa/air-quality-analysis-handbook . Accessed August 8, 2020.						

As shown in Table 12, the proposed project's regional daily construction emissions would not exceed any of the SCAQMD thresholds of significance after the incorporation of MM AIR-1. Furthermore, all construction activities would comply with applicable SCAQMD rules and regulations, including Rule 403, to minimize fugitive PM dust emissions. Therefore, the proposed project would not result in a cumulatively considerable net increase of construction emissions after incorporation of MM AIR-1. The cumulative impact from construction of the proposed project would be less than significant with mitigation incorporated.

Cumulative Operational Emissions

Following project construction, long-term operational emissions would be generated, resulting from daily operations. Operational emissions for land use development projects are typically distinguished as mobile-, area-, and energy-source emissions. Mobile-source emissions are those associated with automobiles that would travel to and from the project site. Assumptions used to estimate mobile-source emissions that would be generated by the proposed project were consistent with those presented in the project-specific traffic study. The proposed project was estimated to generate 1,348 average daily trips during the operational period, with 1,130 of those trips being from passenger vehicles. Area-source emissions are those associated with natural gas combustion for space and water heating, landscape maintenance activities, and periodic architectural coatings. Energy-source emissions are those associated with electricity consumption and are more pertinent for GHG emissions than air quality pollutants. Table 13 presents the project's maximum daily operational emissions.

Table 13: Operational Regional Pollutants

Operational Activity	Regional Pollutant Emissions (pounds per day) ¹					
	VOC	NO _x	CO	SO _x	PM ₁₀	PM _{2.5}
Area	18.49	0.00	0.18	0.00	0.00	0.00
Energy	0.06	0.53	0.45	0.00	0.04	0.04
Mobile—Passenger Vehicles	1.84	2.48	30.69	0.10	10.17	2.73
Mobile—Trucks	1.66	51.94	12.15	0.23	7.46	2.23
Total Operational Emissions	22.04	54.95	43.47	0.34	17.66	5.00
SCAQMD Significance Threshold	55	55	550	150	150	55
Exceed Threshold?	No	No	No	No	No	No
Notes: ¹ Emissions shown represent the maximum daily emissions from summer and winter seasons for each operational emission source and pollutant. Therefore, total daily operational emissions represent maximum daily emissions that could occur throughout the year. Source of emissions: Appendix A. Source of thresholds: South Coast Air Quality Management District (SCAQMD). 2015. SCAQMD Air Quality Significance Thresholds. March. Website: http://www.aqmd.gov/home/rules-compliance/ceqa/air-quality-analysis-handbook . Accessed August 8, 2020.						

As shown in Table 13, the proposed project's regional daily operational emissions would not exceed any of the SCAQMD thresholds of significance. Considering that the project's long-term operational emissions would not exceed any significance thresholds, the proposed project would not result in a cumulatively considerable net increase of operational emissions. The cumulative impact from long-term operation of the project would be less than significant.

Level of Significance Before Mitigation

Potentially significant impact.

Mitigation Measures

MM AIR-1 The following measures shall be applied during construction of the proposed project:

- Use super-compliant architectural coatings for all on-site architectural coating activities. These coatings are defined as those with volatile organic compound Volatile Organic Compound (VOC) less than 10 grams per liter. South Coast Air Quality Management District (SCAQMD) provides a list of manufacturers that provide this type of coating.
- Keep lids closed on all paint containers contained on-site when not in use to prevent VOC emissions and excessive odors.
- Use compliant low VOC cleaning solvents to clean paint application equipment.
- Keep all paint and solvent laden rags in sealed containers to prevent VOC emissions.

Level of Significance After Mitigation

Less than significant impact with mitigation.

5.2.3 - Sensitive Receptors

Impact AIR-3:	The project would not expose sensitive receptors to substantial pollutant concentrations.

Impact Analysis

This impact evaluates the potential for the project's construction and operational emissions to expose sensitive receptors to substantial pollutant concentration. Sensitive receptors are defined as those individuals who are sensitive to air pollution including children, the elderly, and persons with preexisting respiratory or cardiovascular illness. For purposes of CEQA, the SCAQMD considers a sensitive receptor to be a location where a sensitive individual could remain for 24 hours, such as residences, hospitals, or convalescent facilities.⁵⁵ Commercial and industrial facilities are not included in the definition because employees do not typically remain on-site for 24 hours. However, when assessing the impact of pollutants with 1-hour or 8-hour standards (such as NO₂ and CO), commercial and/or industrial facilities would be considered sensitive receptors.

To result in a less than significant impact, the following criteria must be true:

- **Criterion 1:** LST assessment: emissions and air quality impacts during project construction or operation must be below the applicable LSTs to screen out of needing to provide a more detailed air quality analysis. If the project exceeds any applicable LST when the mass rate look-up tables are used as a screening analysis, then project-specific air quality modeling may be performed to determine significance.
- **Criterion 2:** A CO hotspot assessment must demonstrate that the project would not result in the development of a CO hotspot that would result in an exceedance of the CO ambient air quality standards.
- **Criterion 3:** A TAC analysis must demonstrate that the project would not result in significant health risk impacts to sensitive receptors. This would be achieved by demonstrating that construction or operation of the project would not result in an exceedance of the health risk significance thresholds.

Criterion 1: Localized Significance Threshold Analysis—Criteria Pollutants

The localized construction and operational analyses use thresholds (i.e., LSTs) that represent maximum emissions for a project that would not cause or contribute to an exceedance of the most stringent applicable federal or State ambient air quality standard.⁵⁶ If the proposed project's construction or operational emissions are under those thresholds, it follows that the project would

⁵⁵ South Coast Air Quality Management District (SCAQMD). 2008. Final Localized Significance Threshold Methodology. Revised July 2008. Website: <http://www.aqmd.gov/home/rules-compliance/ceqa/air-quality-analysis-handbook/localized-significance-thresholds>. Accessed February 1, 2019.

⁵⁶ South Coast Air Quality Management District (SCAQMD). 2009. Final Localized Significance Threshold Methodology, Appendix C. Revised October 21, 2009. Website: <http://www.aqmd.gov/home/regulations/ceqa/air-quality-analysis-handbook/localized-significance-thresholds>.

not cause or contribute to an exceedance of the standard and would not expose sensitive receptors to substantial pollutant concentrations.

Localized Construction Analysis

The LST Methodology only applies to on-site emissions and states that “off-site mobile emissions from the project should not be included in the emissions compared to LSTs.” Therefore, for purposes of the construction LST analysis, only on-site emissions were compared with the applicable LSTs. The daily maximum disturbed area during construction serves as a factor in determining the project size value of the applicable LSTs for construction. The maximum daily area disturbed during construction is 3 acres (see Table 9). As LSTs are provided for 1-, 2-, and 5-acre sites (with the smallest size having the most stringent LSTs), the use of LSTs for a 2-acre site were used to provide a conservative analysis. Specifically, LSTs for the construction analysis have been obtained from the LST Methodology for a 2-acre project site located in SRA 34 where sensitive receptors are 25 meters away.

Table 14 presents the proposed project’s maximum daily on-site emissions compared with the applicable LSTs. As noted in Table 14, emission estimates account for implementation of SCAQMD Rule 403.

Table 14: Construction Localized Significance Screening Analysis—Unmitigated

Activity	On-site Emissions (pounds per day)			
	NO _x	CO	PM ₁₀	PM _{2.5}
Demolition (Removal of Existing Hardscape)	31.4	21.6	11.6	3.0
Site Preparation	40.5	21.2	9.1	5.8
Grading	46.4	30.9	5.4	3.2
Building Construction (2021)	17.4	16.6	1.0	0.9
Building Construction (2022)	15.6	16.4	0.8	0.8
Paving	11.1	14.6	0.6	0.5
Architectural Coating	1.4	1.8	0.1	0.1
Off-site Improvements	7.8	7.6	0.7	0.6
Unmitigated Maximum Daily On-site Construction Emissions¹	46.4	30.9	11.6	5.8
Localized Significance Thresholds (2-acre site)	170	972	7	4
Exceeds Any Screening Threshold?	No	No	Yes	Yes
Notes: ¹ Assumes overlap of construction activities based on schedule presented in Table 3. The PM ₁₀ and PM _{2.5} emissions reflect the combined exhaust and mitigated fugitive dust emissions in accordance with SCAQMD Rule 403. Source of emissions: Appendix A. Source of thresholds: SCAQMD Mass Rate Look-Up Tables for a 2-acre site in SRA 34 for sensitive receptors located 25 meters (82 feet) from the project site.				

As shown in Table 14, the proposed project’s unmitigated maximum daily on-site emissions would not exceed the applicable SCAQMD LSTs for NO_x or CO and localized construction impacts related to these air pollutants would be less than significant. However, the proposed project’s maximum daily on-site emissions would exceed the applicable SCAQMD LSTs for PM₁₀ and PM_{2.5}. As previously discussed, the LSTs are screening criteria developed by the SCAQMD to provide lead agencies and project applicants with a conservative indication of whether the proposed project could result in a potentially significant air quality impact. If a project exceeds an applicable LST, then the SCAQMD recommends that project-specific air quality modeling be performed to determine localized impacts on sensitive receptors. To determine localized impacts related to construction-generated PM₁₀ and PM_{2.5}, a project-specific construction health risk assessment was performed. Localized impacts from the proposed project’s generation of PM during construction on sensitive receptors were evaluated by performing a project-specific construction health risk assessment and are addressed in Criterion 3, below.

Localized Operational Analysis

Like the construction LST analysis above, the applicable operational LSTs were obtained for a project located in SRA 34 with the nearest sensitive receptor being 25 meters away.

As described above, the LST Methodology recommends that only on-site emissions are evaluated using LSTs. Because most of the project’s mobile-source emissions would occur on the local and regional roadway network away from the project site, only the on-site area-, energy-, and mobile-source emissions were included in this analysis. A trip length of 0.1 mile was used in the modeling input assumptions to account for on-site emissions from mobile sources. Table 15 presents the proposed project’s maximum daily on-site emissions compared with the appropriate LSTs.

Table 15: Operational Localized Significance Analysis—Unmitigated

Emissions Source	Pounds per Day			
	NO _x	CO	PM ₁₀	PM _{2.5}
Area	0.00	0.18	0.00	0.00
Energy	0.53	0.45	0.04	0.04
Mobile—Passenger Vehicles	0.31	4.25	0.09	0.03
Mobile—Trucks	15.69	2.68	0.02	0.01
Maximum Daily On-site Operational Emissions	16.54	7.56	0.16	0.08
Localized Significance Thresholds (5-acre)	270	1,746	4	2
Exceeds Any Threshold?	No	No	No	No
Source of Emissions: Appendix A. Source of thresholds: SCAQMD Mass Rate Look-Up Tables for a 5-acre site in SRA 34 for sensitive receptors located 25 meters (82 feet) from the project site.				

As shown in Table 15, the proposed project's maximum daily on-site operational emissions would not exceed any applicable SCAQMD LSTs. Therefore, the project's operational activities would not cause or contribute substantially to an existing or future ambient air quality standard violation. Accordingly, the proposed project's operational criteria air pollutant and ozone precursor concentrations would not expose sensitive receptors to substantial pollutant concentrations. The impact would be less than significant.

Criterion 2: Carbon Monoxide Hotspot Analysis

The Barton Road Logistics Center Traffic Analysis identified opening year cumulative traffic volumes with project volume forecasts. This scenario, discussed in Barton Road Logistics Center Traffic Analysis, includes Opening Year Cumulative (2022) Without Project traffic in conjunction with the addition of Project traffic. None of the intersections near the project site would have peak-hour traffic volumes exceeding those at the intersections modeled in the 2003 AQMP, nor would there be any reason unique to the local meteorology to conclude that this intersection would yield higher CO concentrations if modeled in detail. Therefore, the operational CO impact would be less than significant.

Criterion 3: Toxic Air Contaminant Analysis

Toxic Air Pollutants—On-site Workers

A variety of State and national programs protect workers from safety hazards, including high air pollutant concentrations.^{57,58}

On-site workers are not required to be addressed through this health risk assessment (HRA) process. A document published by the California Air Pollution Control Officers Association, Health Risk Assessments for Proposed Land Use Projects, indicates that on-site receptors are included in risk assessments if they are persons not employed by the proposed project.⁵⁹ Persons not employed by the project would not remain on-site for any significant period. Therefore, an HRA for on-site workers is not required or recommended. No further discussion is necessary.

Health Risk Assessment

During construction and operation, the proposed project would result in emissions of several TACs that could potentially impact nearby sensitive receptors. The SCAQMD has defined health risk significance thresholds. These thresholds are represented as a cancer risk to the public and a non-cancer hazard from exposures to TACs. Cancer risk represents the probability (in terms of risk per million individuals) that an individual would contract cancer resulting from exposure to TACs continuously over a period of several years. The principal TAC emission analyzed in this assessment was DPM from operation of off-road equipment and diesel-powered delivery and worker vehicles during construction and operation. DPM has been identified by the ARB as a carcinogenic substance. For purposes of this analysis, DPM is represented as exhaust emissions of PM₁₀. As the proposed project did not screen out needing to complete project-specific air quality modeling to determine significance for PM₁₀ and PM_{2.5} by applying the applicable LSTs (see Table 14), this construction health risk assessment is used to determine localized impacts related to PM. DPM represented as

⁵⁷ Occupational Safety and Health Administration (OSHA). 2003. United States Department of Labor. Safety and Health Topics: Methane. Website: www.osha.gov/dts/chemicalsampling/data/CH_250700.html. Accessed December 30, 2019.

⁵⁸ Centers for Disease Control and Prevention (CDC). 2012. Construction—website: www.cdc.gov/niosh/construction/. Indoor Environmental Quality—website: www.cdc.gov/niosh/topics/indoorenv/constructionieq.html. Accessed December 30, 2019.

⁵⁹ California Air Pollution Control Officers Association (CAPCOA). 2009. Health Risk Assessments for Proposed Land Use Projects.

exhaust PM₁₀ adequately addresses impacts from PM₁₀ and PM_{2.5} emissions, as PM_{2.5} comprises a component of PM₁₀. Fugitive dust components of PM₁₀ and PM_{2.5} would be controlled through the use of required dust control practices during project construction.

The SCAQMD and California Office of Environmental Health Hazard Assessment (OEHHA) recommends that an exposure duration (residency time) of 30 years be used to estimate individual cancer risk for the maximally individual resident.⁶⁰ Exposures to TACs can also result in both short-term (acute) or long-term (chronic) non-cancer health impacts. Such impacts could include illnesses related to reproductive effects, respiratory effects, eye sensitivity, immune effects, kidney effects, blood effects, central nervous system, birth defects, or other adverse environmental effects.

Estimation of Cancer Risks

Cancer risks are estimated as the upper-bound incremental probability that an individual will develop cancer as a direct result of exposure to potential carcinogens over a specified exposure duration. 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 a million implies a likelihood (or risk) that up to 10 persons, out of one million equally exposed people would contract cancer if exposed continuously (24 hours per day) to the levels of TACs over a specified duration of time. This risk would be an excess cancer risk that is in addition to any environmental cancer risk borne by a person not exposed to these air toxics.

OEHHA has developed guidance for estimating cancer risks that considers the increased sensitivity of infants and adults to TAC emissions, different breathing rates, and time spent at home. This guidance was applied in estimating cancer risks from the construction and operation of the proposed project.

The recommend method for the estimation of cancer risk is shown in the equations.

$$\text{Cancer Risk} = C_{\text{DPM}} \times \text{Inhalation Exposure Factor} \quad (\text{EQ-1})$$

Where:

Cancer Risk=Total individual excess cancer risk defined as the cancer risk a hypothetical individual faces if exposed to carcinogenic emissions from a particular source for specified exposure durations; this risk is defined as an excess risk because it is above and beyond the background cancer risk to the population; cancer risk is expressed in terms of risk per million exposed individuals.

C_{DPM} =Period average DPM air concentration calculated from the air dispersion model in $\mu\text{g}/\text{m}^3$

Inhalation is the most important exposure pathway to impact human health from DPM and the inhalation exposure factor is defined as follows:

$$\text{Inhalation Exposure Factor} = \text{CPF} \times \text{EF} \times \text{ED} \times \text{DBR} \times \text{AAF}/\text{AT} \quad (\text{EQ-2})$$

⁶⁰ Office of Environmental Health Hazard Assessment (OEHHA). 2015. Air Toxics Hot Spots Program-Risk Assessment Guidelines. February.

Where:

CPF=Inhalation cancer potency factor for the TAC: $1.1 \text{ (mg/kg-day)}^{-1}$ for DPM

EF=Exposure frequency (days/year)

ED=Exposure duration (years of construction)

AAF=set of age-specific adjustment factors that include age sensitivity factors (ASF), daily breathing rates (DBR), and time at home factors (TAH)

AT=Averaging time period over which exposure is averaged (days)

Estimation of Chronic Non-Cancer Hazards

An evaluation of potential non-cancer effects of chronic chemical exposures was also conducted. Adverse health effects are evaluated by comparing the annual receptor concentration of each chemical compound with the appropriate Reference Exposure Level (REL). Available RELs promulgated by OEHHA were considered in the assessment.

Risk characterization for non-cancer health hazards from TACs is expressed as an HI. The HI is a ratio of the predicted concentration of the project's emissions to a concentration considered acceptable to public health professionals, termed the REL.

To quantify non-carcinogenic impacts, the HI approach was used.

$$HI = C_{\text{ann}} / \text{REL} \quad (\text{EQ-3})$$

Where:

HI=chronic hazard index

C_{ann} =annual average concentration of TAC as derived from the air dispersion model ($\mu\text{g}/\text{m}^3$)

REL=reference exposure level above which a significant impact is assumed to occur ($\mu\text{g}/\text{m}^3$)

The HI assumes that chronic exposures to TACs adversely affect a specific organ or organ system (toxicological endpoint) of the body. For each discrete chemical exposure, target organs presented in regulatory guidance were used. To calculate the HI, each chemical concentration or dose is divided by the appropriate toxicity REL. For compounds affecting the same toxicological endpoint, this ratio is summed. Where the total equals or exceeds 1, a health hazard is presumed to exist. OEHHA has defined a REL for DPM of $5 \mu\text{g}/\text{m}^3$. The principal toxicological endpoint assumed in this assessment was through inhalation.

Toxic Air Contaminant Construction Analysis

Major sources of DPM during construction include off-road construction equipment and heavy-duty delivery truck activities. The results of the HRA prepared for project construction for cancer risk and long-term chronic cancer risk are summarized below. Air dispersion modeling was utilized to assess the project's potential health risks using AERMOD Version 19191, which is the air dispersion model accepted by the EPA and the SCAQMD for preparing HRAs. Exhaust emissions of DPM (as PM_{10} exhaust) were estimated using CalEEMod Version 2016.3.2. The construction emissions were assumed to be distributed over the project area with a working schedule of eight hours per day and five days per week. Emissions were adjusted by a factor of 4.2 to convert for use with a 24-hour-per-

day, 365 day-per-year averaging period. Detailed parameters, a description of methodology, and complete calculations are contained in Appendix A.

The estimated health and hazard impacts at the Maximum Impacted Sensitive Receptor (MIR) from the project's unmitigated construction emissions are provided in Table 16.

Table 16: Estimated Health Risks and Hazards During Project Construction (Unmitigated)

Source	Cancer Risk (risk per million)	Chronic Non-Cancer HI ¹
Risks and Hazards at the MIR: Infants	6.7	0.01
Risks and Hazards at the MIR: Child	1.0	0.01
Risks and Hazards at the MIR: Adult	0.2	0.01
Significance Threshold	10	1
Exceeds Individual Source Threshold?	No	No
Notes: ¹ Chronic non-cancer HI was estimated by dividing the maximum annual DPM concentration (as PM ₁₀ exhaust) by the REL of 5 µg/m ³ . Source: Appendix B.		

As noted in Table 16, the proposed project's construction DPM emissions would not exceed the cancer risk significance threshold or non-cancer hazard index significance threshold at the MIR. Therefore, the proposed project would not result in a significant impact on nearby sensitive receptors from TACs during construction.

Toxic Air Contaminant Operational Analysis

Common sources of TACs include high traffic freeways, distribution centers, large gas dispensing facilities, and dry cleaners. The proposed project would develop two concrete tilt-up industrial warehouse logistics facilities totaling 960,040 square feet, which would include on-site sources of TACs during operation. The proposed project would primarily generate passenger vehicle trips from employees, visitors, and light-duty delivery vehicles traveling to and from the project site; however, the proposed project would also be served with daily truck deliveries. The main source of DPM from the long-term operations of logistical centers is from combustion of diesel fuel in diesel-powered engines in on-road delivery trucks. Motor vehicle emissions refer to DPM exhaust emissions from the motor vehicle traffic that would travel to and from the project site each day. An estimate of the number of vehicle trips that the proposed project would generate was prepared by traffic impact study, as shown in Table 7 contained in Section 4-Modeling Parameters and Assumptions.

Operational emissions for the proposed project were assessed assuming the first year of operations would occur in 2022. The emission factors for DPM emissions were estimated for the following years: 2022, 2025, 2030, 2040 and 2050. This was done to account for the future reductions in DPM emissions forecasted by the ARB EMFAC 2017 emission model from motor vehicles. The emission factors, AERMOD Output, and emission estimation spreadsheets used to estimate motor vehicle DPM emissions during project operations are provided in Appendix A.

The results of the HRA prepared for project operations, for cancer risk and long-term chronic cancer risk, are summarized below. Similar to the HRA performed for construction emissions, air dispersion modeling was utilized to assess the proposed project's potential health risks using AERMOD Version 19191. Exhaust emissions of DPM (as PM₁₀ exhaust) were estimated using CalEEMod Version 2016.3.2 and EMFAC2017. The OEHHA-recommended values for the various cancer risk parameters used in the operational HRA are provided below in Table 17. The parameters and methodology are summarized in Section 4-Modeling Parameters and Assumptions. Detailed calculations are provided in Appendix B.

Table 17: Exposure Assumptions for Cancer Risk

Receptor Type	Exposure Frequency		Exposure Duration (years)	Age Sensitivity Factors	Time at Home Factor (%)
	Hours/day	Days/year			
Sensitive/Residential—Infant					
3 rd Trimester	24	350	0.25	10	85
0–2 years	24	350	2	10	85
Sensitive Receptor—Child					
3–16 years	24	350	14	3	72
Sensitive Receptor—Adult					
>16 to 30 years	24	350	14	1	73
>30 years	24	350	1	1	73
Notes: (1) The daily breathing rates for sensitive/residential receptors assume the 95 th percentile breathing rates for all individuals less than 2 years of age and 80 th percentile breathing rates for all older individuals. (l/kg-day)=liters per kilogram body weight per day Source: Appendix B.					

An operational HRA was performed to calculate the cancer health risks and the non-hazard indices for sensitive receptors within 1,000 feet of the project boundary. Because the same off-site receptors would be exposed to emissions from both construction and operation of the proposed project, DPM (as PM₁₀ exhaust) from short-term construction of the project and long-term operations of the project were combined to calculate the cancer health risk and the non-hazard index to determine the MIR. The results of this analysis are summarized in Table 18.

Table 18: Summary of Health Risk Impacts Year 2022-2052

Health Impact Metric	Cancer Risk (risk per million)	Chronic Non-Cancer Hazard Index ⁽¹⁾
Risks and Hazards at the MIR over 30-year exposure	7.3	0.009
SCAQMD Significance Threshold	10	1
Exceeds Individual Source Threshold?	No	No
MIR=maximum impacted sensitive receptor ¹ Chronic non-cancer hazard index was estimated by dividing the annual DPM concentration (as PM _{2.5} exhaust) by the REL of 5 µg/m ³ . Source: Appendix A.		

The maximum cancer risks at the MIR over the approximate 1.24-year construction period combined with cancer risks over a 30-year operational exposure duration would be less than 10 in one million, and the maximum hazard index for chronic HI would be less than 0.1. As noted in Table 18, the health risks and hazard index are below the SCAQMD's thresholds of significance. Therefore, the proposed project's operation would not expose sensitive receptors to substantial pollutant concentrations.

Cumulative Toxic Air Contaminant Operational Analysis

As previously discussed, projects that exceed project-specific significance thresholds are considered by the SCAQMD cumulatively considerable. Conversely, projects that do not exceed project-specific thresholds are generally not considered cumulatively significant. As discussed in Criteria 1 through 3, the proposed project would not expose sensitive receptors to substantial pollutant concentrations. Since the proposed project would not exceed project-specific thresholds it would not be considered to result in cumulatively significant impacts.

Level of Significance Before Mitigation

Less than significant impact.

Mitigation Measures

No mitigation is required.

5.2.4 - Objectionable Odors

Impact AIR-4:	The project would not result in other emissions (such as those leading to odors) adversely affecting a substantial number of people.

Impact Analysis

Odors can cause a variety of responses. The impact of an odor is dependent on interacting factors such as frequency (how often), intensity (strength), duration (in time), offensiveness (unpleasantness), location, and sensory perception. While offensive odors rarely cause any physical harm, they still can be very unpleasant, leading to considerable distress and often generating citizen complaints to local governments and regulatory agencies. Odor-related symptoms reported in several studies include nervousness, headache, sleeplessness, fatigue, dizziness, nausea, loss of appetite, stomachache, sinus congestion, eye irritation, nose irritation, runny nose, sore throat, cough, and asthma exacerbation.⁶¹

The SCAQMD's role is to protect the public's health from air pollution by overseeing and enforcing regulations.⁶² The SCAQMD's resolution activity for odor compliance is mandated under California Health and Safety Code Section 41700 and falls under SCAQMD Rule 402. This rule on Public Nuisance Regulation states: "A person shall not discharge from any source whatsoever such quantities of air contaminants or other material which cause injury, detriment, nuisance, or annoyance to any considerable number of persons or to the public, or which endanger the comfort,

⁶¹ South Coast Air Quality Management District (SCAQMD). 2007. Odor Detection, Mitigation and Control Technology Forum and Roundtable Discussion. 2007. Website: www.aqmd.gov/tao/conferencesworkshops/OdorForum/OdorForumSummary.pdf.

⁶² Ibid.

repose, health or safety of any such persons or the public, or which cause, or have a natural tendency to cause, injury or damage to business or property.”

The SCAQMD does not provide a suggested screening distance for a variety of odor-generating land uses and operations. However, the San Joaquin Valley Air Pollution Control District (Valley Air District) does have a screening distance for odor sources. Those distances are used as a guide to assess whether nearby facilities could be sources of significant odors. These screening distances by type of odor generator are listed in Table 19.

Table 19: Screening Levels for Potential Odor Sources

Odor Generator	Screening Distance
Wastewater Treatment Facilities	2 miles
Sanitary Landfill	1 mile
Transfer Station	1 mile
Composting Facility	1 mile
Petroleum Refinery	2 miles
Asphalt Batch Plant	1 mile
Chemical Manufacturing	1 mile
Fiberglass Manufacturing	1 mile
Painting/Coating Operations (e.g., auto body shop)	1 mile
Food Processing Facility	1 mile
Feed Lot/Dairy	1 mile
Rendering Plant	1 mile
Source: San Joaquin Valley Air Pollution Control District. 2015. Guidance for Assessing and Mitigated Air Quality Impacts. February 19.	

Construction-related Odors

Potential sources that may emit odors during construction activities include exhaust from diesel construction equipment. However, because of the low intensity of these emissions, intermittent nature of construction activities, and highly diffusive properties of diesel PM exhaust, nearby receptors would not be affected by diesel exhaust odors associated with project construction. Odors from these sources would be localized and generally confined to the immediate area surrounding the proposed project site. The proposed project would utilize typical construction techniques, and odors would be typical of most construction-sites and temporary in nature. Impacts would be less than significant.

Operational-related Odors

The proposed project includes construction and development of two industrial warehouse buildings, parking spaces, and associated landscaping. Land uses that are typically identified as sources of objectionable odors include landfills, transfer stations, sewage treatment plants, wastewater pump

stations, composting facilities, feed lots, coffee roasters, asphalt batch plants, and rendering plants. The proposed project would not engage in any of these activities and would not be considered an odor generator as identified in Table 19. Therefore, the proposed project would not be considered a generator of objectionable odors during operations. Minor sources of odors, such as exhaust from mobile sources, are not typically associated with numerous odor complaints, but are known to have temporary and less concentrated odors. Neither construction nor operation of the proposed project is anticipated to generate any significant objectionable odors that affect a substantial number of people. In summary, the proposed project's long-term operational activities would not have any substantial odor sources that would expose nearby receptors. Considering the low intensity of potential odor emissions, the proposed project's operational activities would not expose receptors to objectionable odor emissions. Impacts would be less than significant.

Level of Significance Before Mitigation

Less than significant impact.

Mitigation Measures

No mitigation is required.

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SECTION 6: GREENHOUSE GAS IMPACT ANALYSIS

6.1 - CEQA Guidelines

CEQA Guidelines define a significant effect on the environment as “a substantial, or potentially substantial, adverse change in the environment.” To determine if a project would have a significant impact on GHGs, the type, level, and impact of emissions generated by the project must be evaluated.

The following GHG significance thresholds are contained in Appendix G of the CEQA Guidelines, which were amendments adopted into the Guidelines on March 18, 2010, pursuant to SB 97. A significant impact would occur if the project would:

- Generate GHG emissions, either directly or indirectly, that may have a significant impact on the environment; or
- Conflict with any applicable plan, policy or regulation of an agency adopted for the purpose of reducing the emissions of GHGs.

6.1.1 - Thresholds of Significance for the Proposed Project

SCAQMD GHG Thresholds

The project site is within the SoCAB, which is under the jurisdiction of the SCAQMD. The SCAQMD formed a working group to identify GHG emissions thresholds for land use projects that could be used by local lead agencies in the air basin in 2008. The working group developed several different options that are contained in the SCAQMD Draft Guidance Document—Interim CEQA GHG Significance Threshold (Interim GHG Thresholds) 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 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:
 - All land use types: 3,000 metric tons (MT) carbon dioxide equivalents (CO₂e) per year
 - Based on land use type: residential: 3,500 MT CO₂e per year; commercial: 1,400 MT CO₂e per year; or mixed use: 3,000 MT CO₂e per year

- 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 population (SP), which includes residents and employees: 4.8 MT CO₂e/SP/year for projects and 6.6 MT CO₂e/SP/year for plans
 - Option 3, 2035 target: 3.0 MT CO₂e/SP/year for projects and 4.1 MT CO₂e/SP/year for plans
- Tier 5 involves mitigation offsets to achieve target significance threshold.

The SCAQMD provided substantial evidence in support of its threshold approach. The SCAQMD discusses its draft thresholds in the following excerpt:⁶³

The overarching policy objective with regard to establishing a GHG significance threshold for the purposes of analyzing GHG impacts pursuant to CEQA is to establish a performance standard or target GHG reduction objective that will ultimately contribute to reducing GHG emissions to stabilize climate change. Full implementation of the Governor's Executive Order S-3-05 would reduce GHG emissions 80 percent below 1990 levels or 90 percent below current levels by 2050. It is anticipated that achieving the Executive Order's objective would contribute to worldwide efforts to cap GHG concentrations at 450 ppm, thus, stabilizing global climate.

As described below, staff's recommended interim GHG significance threshold proposal uses a tiered approach to determining significance. Tier 3, which is expected to be the primary tier by which the AQMD will determine significance for projects where it is the lead agency, uses the Executive Order S-3-05 goal as the basis for deriving the screening level. Specifically, the Tier 3 screening level for stationary sources is based on an emission capture rate of 90 percent for all new or modified projects. A 90 percent emission capture rate means that 90 percent of total emissions from all new or modified stationary source projects would be subject to some type of CEQA analysis, including a negative declaration, a mitigated negative declaration, or an environmental impact.

In summary, the SCAQMD's draft threshold uses the Executive Order S-3-05 goal as the basis for the Tier 3 screening level. Achieving the Executive Order's objective would contribute to worldwide efforts to cap CO₂ concentrations at 450 parts per million (ppm), thus stabilizing global climate. In 2010, the SCAQMD Tier 3 threshold was expanded to include non-industrial projects, as explained in the minutes from the most recent working group meeting.⁶⁴ The threshold of 10,000 MT CO₂e per year established for industrial facilities is recommended in SCAQMD's latest air quality significance thresholds.⁶⁵

⁶³ South Coast Air Quality Management District (SCAQMD). 2008. Draft Guidance Document—Interim CEQA Greenhouse (GHG) Significance Threshold Document. Website: <http://www.aqmd.gov/hb/attachments/2008/December/081231.exe>.

⁶⁴ South Coast Air Quality Management District (SCAQMD). 2010. Greenhouse Gas CEQA Threshold Stakeholder Working Group Meeting #15. September 28. Website: www.aqmd.gov/ceqa/handbook/GHG/2010/sept28mtg/ghgmtg15-web.pdf.

⁶⁵ South Coast Air Quality Management District. 2019. South Coast AQMD Air Quality Significance Thresholds. April. Website: <http://www.aqmd.gov/docs/default-source/ceqa/handbook/scaqmd-air-quality-significance-thresholds.pdf>. Accessed August 5, 2020.

To determine whether the proposed project would have a significant impact with respect to the generation of GHG emissions, this analysis utilizes the SCAQMD's draft local agency threshold for industrial uses of 10,000 MT CO₂e per year. The second CEQA Checklist question would be evaluated by assessing the project's consistency with the ARB's adopted 2017 Scoping Plan Update.

6.2 - Impact Analysis

6.2.1 - Greenhouse Gas Inventory

Impact GHG-1: The project would generate direct and indirect greenhouse gas emissions; however, these emissions would not result in a significant impact on the environment.

Impact Analysis

Construction Emissions

The proposed project would generate GHG emissions during construction activities resulting from emission sources such as construction equipment, haul trucks, and construction worker vehicles. Although these emissions would be temporary and short-term in nature, they could represent a substantial contribution of GHG emissions. Construction emissions were modeled using CalEEMod Version 2016.3.2. See Section 4-Modeling Parameters and Assumptions for assumptions the model selection and model inputs used in estimating emissions.

Table 20 presents the proposed project's total construction emissions, which are amortized over the assumed lifetime of the project and added with annual operational emissions.

Table 20: Estimated Construction-Related GHG Emissions

Construction Activity	Total GHG Emissions (MT CO ₂ e per year)
Demolition (Removal of Buildings and Hardscape)	620
Site Preparation	35
Grading	91
Building Construction	1,173
Paving	27
Architectural Coating	22
Off-site Improvements	27
Total Construction Emissions	1,995
Emissions Amortized Over 30 Years¹	67
Notes:	
¹ Construction GHG emissions are amortized over the 30-year lifetime of the project.	
Source: Appendix A.	

Operational Emissions

Operational or long-term emissions occur over the life of the project. Project operations were modeled for the 2022 operational year, following the completion of construction. Sources for operational emissions are summarized below and are described in more detail in Section 4-Modeling Parameters and Assumptions. Sources for operational GHG emissions include:

- **Motor Vehicles:** These emissions refer to GHG emissions contained in the exhaust from the cars and trucks that would travel to and from the project site.
- **Natural Gas:** These emissions refer to the GHG emissions that occur when natural gas is burned on the project site. Natural gas uses could include heating water, space heating, dryers, stoves, or other uses.
- **Indirect Electricity:** These emissions refer to those generated by off-site power plants to supply electricity required for the project.
- **Area Sources:** These emissions refer to those produced during activities such as landscape maintenance.
- **Water Transport:** These emissions refer to those generated by the electricity required to transport and treat the water to be used on the project site.
- **Waste:** These emissions refer to the GHG emissions produced by decomposing waste generated by the project.

Table 21 presents the estimated annual GHG emissions from the project's operational activities. As shown in Table 21, the project would generate approximately 7,744 MT CO₂e per year after the inclusion of 67 MT CO₂e per year from project construction.

Table 21: Operational Greenhouse Gas Emissions

GHG Emissions Source	GHG Emissions (MT CO ₂ e per year)
Area	0.05
Energy	790
Waste	1,503
Water	454
Mobile—Passenger Vehicles	873
Mobile—Trucks	4,057
Amortized Construction Emissions	67
Total Annual Project Emissions	7,744
Applicable Threshold of Significance	10,000
Exceeds Threshold of Significance?	No
Source: Appendix A.	

Summary

As shown in Table 21, the project's combined amortized construction and annual operational GHG emissions would not exceed the applicable threshold of significance of 10,000 MT CO₂e per year. Thus, the project's construction and operational GHG emissions would not result in a significant impact on the environment.

Level of Significance Before Mitigation

Less than significant impact.

Mitigation Measures

No mitigation is required.

6.2.2 - Greenhouse Gas Reduction Plans

Impact GHG-2: **The project would not conflict with any applicable plan, policy or regulation of an agency adopted to reduce the emissions of greenhouse gases.**

Impact Analysis

This impact is addressed by assessing the proposed project's consistency with the City of Colton's CAP, and the ARB's adopted 2017 Scoping Plan Update.

City of Colton CAP

As described in the City of Colton CAP, and adapted from the San Bernardino County CAP, individual cities may adopt a GHG Performance Standard for New Development that would provide a streamlined and flexible program for new projects to reduce their emissions that would apply to new private developments subject to the discretionary approval process under CEQA. The City of Colton CAP indicates that the City will adopt a GHG Performance Standard for New Development requiring a 25 percent reduction in new development emissions within the cities.

Pursuant to the Draft City of Colton GHG Emissions Screening Tables and consistent with the screening tables that were customized for each of the 21 participating cities (one of which includes the City of Colton) in the SANBAG CAP Implementation Tools Final Report, projects within the City of Colton that achieve at least 75 points based on the City's screening tables are determined to be consistent with the reduction quantities anticipated in the City's CAP. The Draft Screening Tables are included in Appendix B of this technical report. The Draft Screening Tables assign point values to various measures that are designed within intent to reduce GHG emissions. For instance, the inclusion of a public charging station for use by an electric vehicle grants 10 points per public charging station within the facility.

In order to enforce the requirements of the CAP Screening Tables, MM GHG-1a requires the proposed project to implement reduction measures from the City of Colton GHG Emissions Screening Tables totaling a minimum of 75 points. Therefore, since the proposed project would incorporate GHG reduction measures totaling at least 75 points from the screening tables, the proposed project's impact would be less than significant after incorporation of MM GHG-1a.

SB 32 2017 Scoping Plan Update

The 2017 Climate Change Scoping Plan Update addressing the SB 32 targets was adopted on December 14, 2017. Table 22 provides an analysis of the proposed project's consistency with the 2017 Scoping Plan Update measures. As shown in Table 22, many of the measures are not applicable to the project, while the project is consistent with strategies that are applicable.

Table 22: Consistency with SB 32 2017 Scoping Plan Update

2017 Scoping Plan Update Reduction Measure	Project Consistency
SB 350 50 percent Renewable Mandate. Utilities subject to the legislation will be required to increase their renewable energy mix from 33 percent in 2020 to 50 percent in 2030.	Not applicable. This measure would apply to utilities and not to individual development projects. The proposed project would purchase electricity from a utility subject to the SB 350 Renewable Mandate.
SB 350 Double Building Energy Efficiency by 2030. This is equivalent to a 20 percent reduction from 2014 building energy usage compared to current projected 2030 levels.	Not applicable. This measure applies to existing buildings. New structures are required to comply with Title 24 Energy Efficiency Standards that are expected to increase in stringency over time. The proposed project would comply with the applicable Title 24 Energy Efficiency Standards in effect at the time building permits are received.
Low Carbon Fuel Standard. This measure requires fuel providers to meet an 18 percent reduction in carbon content by 2030.	Not applicable. This is a Statewide measure that cannot be implemented by a project applicant or lead agency. However, vehicles accessing the project site would benefit from the standards.
Mobile Source Strategy (Cleaner Technology and Fuels Scenario). Vehicle manufacturers will be required to meet existing regulations mandated by the LEV III and Heavy-Duty Vehicle programs. The strategy includes a goal of having 4.2 million ZEVs on the road by 2030 and increasing numbers of ZEV trucks and buses.	Consistent with Mitigation Measures. The proposed project is industrial in nature and would support truck and freight operations. It is expected that deliveries throughout the State would be made with an increasing number of ZEV delivery trucks, including trips that would be coming to and from the project site. The proposed project would include a total of 567 parking spaces; 46 spaces would be clean air vehicle stalls and 35 spaces would be electric vehicle stalls, consistent with the applicable California Green Building Standards Code Section 5.106.5.2. While the proposed project meets these code requirements, MM GHG-1b is recommended to ensure compliance with these requirements; additionally, MM GHG-1b provides the specifications that need to be met to count as electric vehicle charging spaces. Exterior refrigerated truck-trailer plug-in receptacles or E-truck charging stations would be provided if required by a future tenant. Additionally, MM GHG-1c and MM GHG-1d would require the proposed project to install infrastructure for the support and operation of zero and near-zero freight vehicles and equipment powered by renewable energy.
Sustainable Freight Action Plan The plan's target is to improve freight system efficiency 25 percent by increasing the value of goods and services	Consistent with Mitigation Measures. This measure applies to owners and operators of trucks and freight operations. The proposed project is industrial in nature

2017 Scoping Plan Update Reduction Measure	Project Consistency
produced from the freight sector, relative to the amount of carbon that it produces by 2030. This would be achieved by deploying over 100,000 freight vehicles and equipment capable of zero emission operation and maximize near-zero emission freight vehicles and equipment powered by renewable energy by 2030.	and would support truck and freight operations. The proposed project would include a total of 567 parking spaces; 46 spaces would be clean air vehicle stalls and 35 spaces would be electric vehicle stalls, consistent with the applicable California Green Building Standards Code Section 5.106.5.2. While the proposed project meets these code requirements, MM GHG-1b is recommended to ensure compliance with these requirements; additionally, MM GHG-1b provides the specifications that need to be met to count as electric vehicle charging spaces. Exterior refrigerated truck-trailer plug-in receptacles or E-truck charging stations would be provided if required by a future tenant. Additionally, MM GHG-1c and MM GHG-1d would require the proposed project to install infrastructure for the support and operation of zero and near-zero freight vehicles and equipment powered by renewable energy.
Short-Lived Climate Pollutant (SLCP) Reduction Strategy. The strategy requires the reduction of SLCPs by 40 percent from 2013 levels by 2030 and the reduction of black carbon by 50 percent from 2013 levels by 2030.	Consistent. The proposed project would not include major sources of black carbon. This measure revolves around ARB's SLCP Reduction Strategy that was released in April 2016 as a result of SB 650. SB 650 required the State to develop a strategy to reduce emissions of SLCPs. DPM reductions have come from strong efforts to reduce on-road vehicle emissions. Car and truck engines used to be the largest sources of anthropogenic black carbon emissions in California, but the State's existing air quality policies will virtually eliminate black carbon emissions from on-road diesel engines within 10 years. These policies are based on existing technologies.
SB 375 Sustainable Communities Strategies. Requires Regional Transportation Plans to include a sustainable communities strategy for reduction of per capita vehicle miles traveled.	Not applicable. The proposed project does not include the development of a Regional Transportation Plan.
Post-2020 Cap-and-Trade Program. The Post 2020 Cap-and-Trade Program continues the existing program for another 10 years. The Cap-and-Trade Program applies to large industrial sources such as power plants, refineries, and cement manufacturers.	Not applicable. The proposed project is not one targeted by the cap-and-trade system regulations, and, therefore, this measure does not apply to the project. However, the post-2020 Cap-and-Trade Program indirectly affects people and entities who use the products and services produced by the regulated industrial sources when increased cost of products or services (such as electricity and fuel) are transferred to the consumers.
Natural and Working Lands Action Plan. The ARB is working in coordination with several other agencies at the federal, State, and local levels, stakeholders, and with the public, to develop measures as outlined in the Scoping Plan Update and the governor's Executive Order B-30-15 to	Not applicable. Natural and working lands include forests, rangelands, urban green spaces, wetlands, and farms. The project site is in a built-up urban area and would not be considered natural or working lands.

2017 Scoping Plan Update Reduction Measure	Project Consistency
reduce GHG emissions and to cultivate net carbon sequestration potential for California's natural and working land.	
Source: California Air Resource Board (ARB). 2017. California's 2017 Climate Change Scoping Plan. November. Website: https://ww3.arb.ca.gov/cc/scopingplan/scoping_plan_2017.pdf . Accessed January 13, 2020.	

As discussed in Table 22, the proposed project would not conflict with any applicable 2017 Scoping Plan Update reduction measures with incorporation of MM GHG-1a through MM GHG-1d. As shown in Impact GHG-1, the proposed project's combined amortized construction and annual operational GHG emissions would not exceed the applicable threshold of 10,000 MT CO₂e per year. Considering this information, the proposed project would not conflict with any applicable plan, policy, or regulation of an agency adopted to reduce GHG emissions. Therefore, impacts are considered less than significant with mitigation.

Level of Significance Before Mitigation

Potentially significant impact.

Mitigation Measures

- MM GHG-1a** Prior to issuance of building permits, the applicant shall provide documentation to the City of Colton Planning Department demonstrating that the proposed project will implement project features that will achieve at least 75 points from the City of Colton's Greenhouse Gas Emissions Screening Tables or achieve equivalent emission reductions from other measures approved by the City of Colton.
- MM GHG-1b** Prior to issuance of building permits, the applicant shall provide documentation to the City of Colton Planning Department demonstrating that the project design provides electrical vehicle charging infrastructure. The project shall be designed to incorporate a minimum of six percent of all vehicle parking spaces (including for trucks) with electric vehicle charging spaces and minimum eight percent of all spaces designated for clean air vehicles, consistent with the applicable California Green Building Standards Code Nonresidential Mandatory Measures (Section 5.106). Electric vehicle charging spaces must provide electrical vehicle charging infrastructure to support future installation of electric vehicle supply equipment and shall meet the design space requirements of California Green Building Standards Code Section 5.106.5.3.2.
- MM GHG-1c** Prior to issuance of building permits, the applicant shall provide documentation to the City of Colton Planning Department demonstrating that the project design provides infrastructure to support use of electric-powered forklifts and/or other interior vehicles. All buildings shall be designed to provide infrastructure to support use of electric-powered forklifts and/or other interior vehicles.
- MM GHG-1d** Prior to issuance of building permits, the applicant shall provide documentation to the City of Colton Planning Department demonstrating that the project design provides infrastructure to support use of exterior electric yard trucks and electric on-site vehicles. All buildings shall be designed to provide infrastructure to support use

of electric exterior yard trucks and on-site vehicles. The operation of yard trucks that are used to move trailers and on-site vehicles within the project site shall be powered by electricity unless the project applicant can reasonably demonstrate that specific equipment is not available for a particular task.

Level of Significance After Mitigation

Less than significant impact with mitigation.

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Appendix A: CalEEMod Output

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CalEEMod Output

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1.0 Project Characteristics**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	20.00	1000sqft	0.46	20,000.00	0
Unrefrigerated Warehouse-No Rail	940.04	1000sqft	21.58	940,040.00	0
Other Non-Asphalt Surfaces	827.87	1000sqft	19.01	827,873.00	0
Parking Lot	6.55	Acre	6.55	285,318.00	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)	598.29	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

1.3 User Entered Comments & Non-Default Data

Colton Barton Road - Unmitigated Construction - San Bernardino-South Coast County, Annual

Project Characteristics - Unmitigated Construction

Colton Electric Utility not included as option in CalEEMod - CO2 intensity updated for Colton Electric Utility and accounts for compliance with RPS

Land Use - Based on site plan, project description, and applicant-provided response to information request.

Construction Phase - Applicant-provided construction schedule, consistent with the project description

Demolition - The total building square footage that would be demolished is 659,435 square feet. The total amount of hardscape to be demolished or removed, including asphalt concrete, concrete pavement, and concrete building slab, would be 1,603,931 square feet.

Grading - The total import volume would be 1,238 cubic yards. There would be no export volume.

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 - Compliance with SCAQMD Rule 403

Trips and VMT -

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	WaterUnpavedRoadMoistureContent	0	12
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstructionPhase	NumDays	50.00	100.00
tblConstructionPhase	NumDays	30.00	20.00
tblConstructionPhase	NumDays	75.00	30.00
tblConstructionPhase	NumDays	740.00	125.00
tblConstructionPhase	NumDays	55.00	25.00
tblConstructionPhase	NumDays	55.00	25.00
tblEnergyUse	LightingElect	3.66	0.00
tblEnergyUse	LightingElect	0.35	0.00
tblEnergyUse	LightingElect	1.17	0.00
tblEnergyUse	NT24E	2.79	0.00
tblEnergyUse	NT24E	0.82	0.00

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tblEnergyUse	NT24NG	0.03	0.00
tblEnergyUse	T24E	3.07	0.00
tblEnergyUse	T24E	0.37	0.00
tblEnergyUse	T24NG	3.47	0.00
tblEnergyUse	T24NG	2.00	0.00
tblGrading	MaterialImported	0.00	1,238.00
tblLandUse	LandUseSquareFeet	827,870.00	827,873.00
tblProjectCharacteristics	CO2IntensityFactor	702.44	598.29
tblSolidWaste	SolidWasteGenerationRate	18.60	0.00
tblSolidWaste	SolidWasteGenerationRate	883.64	0.00
tblVehicleTrips	ST_TR	2.46	0.00
tblVehicleTrips	ST_TR	1.68	0.00
tblVehicleTrips	SU_TR	1.05	0.00
tblVehicleTrips	SU_TR	1.68	0.00
tblVehicleTrips	WD_TR	11.03	0.00
tblVehicleTrips	WD_TR	1.68	0.00
tblWater	IndoorWaterUseRate	3,554,674.96	0.00
tblWater	IndoorWaterUseRate	217,384,250.00	0.00
tblWater	OutdoorWaterUseRate	2,178,671.75	0.00

2.0 Emissions Summary

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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	0.5744	6.2302	4.1945	0.0162	2.1866	0.1749	2.3615	0.5069	0.1626	0.6695	0.0000	1,498.210 7	1,498.210 7	0.1651	0.0000	1,502.337 3
2022	4.7811	1.2814	1.4294	5.0700e-003	0.2885	0.0289	0.3174	0.0777	0.0271	0.1049	0.0000	465.2830	465.2830	0.0384	0.0000	466.2441
Maximum	4.7811	6.2302	4.1945	0.0162	2.1866	0.1749	2.3615	0.5069	0.1626	0.6695	0.0000	1,498.210 7	1,498.210 7	0.1651	0.0000	1,502.337 3

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	0.5744	6.2302	4.1945	0.0162	1.2093	0.1749	1.3842	0.2942	0.1626	0.4568	0.0000	1,498.210 2	1,498.210 2	0.1651	0.0000	1,502.336 8
2022	4.7811	1.2814	1.4294	5.0700e-003	0.2885	0.0289	0.3174	0.0777	0.0271	0.1049	0.0000	465.2829	465.2829	0.0384	0.0000	466.2440
Maximum	4.7811	6.2302	4.1945	0.0162	1.2093	0.1749	1.3842	0.2942	0.1626	0.4568	0.0000	1,498.210 2	1,498.210 2	0.1651	0.0000	1,502.336 8

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	39.49	0.00	36.48	36.39	0.00	27.48	0.00	0.00	0.00	0.00	0.00	0.00

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Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	2-15-2021	5-14-2021	1.9938	1.9938
2	5-15-2021	8-14-2021	1.8202	1.8202
3	8-15-2021	11-14-2021	1.8950	1.8950
4	11-15-2021	2-14-2022	1.9015	1.9015
5	2-15-2022	5-14-2022	5.1618	5.1618
		Highest	5.1618	5.1618

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	4.0037	2.1000e-004	0.0229	0.0000		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005	0.0000	0.0445	0.0445	1.2000e-004	0.0000	0.0475
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	4.0037	2.1000e-004	0.0229	0.0000	0.0000	8.0000e-005	8.0000e-005	0.0000	8.0000e-005	8.0000e-005	0.0000	0.0445	0.0445	1.2000e-004	0.0000	0.0475

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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	4.0037	2.1000e-004	0.0229	0.0000		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005	0.0000	0.0445	0.0445	1.2000e-004	0.0000	0.0475
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	4.0037	2.1000e-004	0.0229	0.0000	0.0000	8.0000e-005	8.0000e-005	0.0000	8.0000e-005	8.0000e-005	0.0000	0.0445	0.0445	1.2000e-004	0.0000	0.0475

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	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**

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Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	2/15/2021	7/2/2021	5	100	
2	Site Preparation	Site Preparation	7/3/2021	7/30/2021	5	20	
3	Grading	Grading	7/31/2021	9/10/2021	5	30	
4	Building Construction	Building Construction	9/11/2021	3/4/2022	5	125	
5	Paving	Paving	3/5/2022	4/8/2022	5	25	
6	Architectural Coating	Architectural Coating	4/9/2022	5/13/2022	5	25	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 75

Acres of Paving: 25.56

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 1,440,060; Non-Residential Outdoor: 480,020; Striped Parking Area: 66,791 (Architectural Coating – sqft)

OffRoad Equipment

Colton Barton Road - Unmitigated Construction - 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	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
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	2	8.00	97	0.37
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	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	6.00	78	0.48

Trips and VMT

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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	11,934.00	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	155.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	869.00	340.00	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	174.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

Water Unpaved Roads

Reduce Vehicle Speed on Unpaved Roads

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					1.2914	0.0000	1.2914	0.1955	0.0000	0.1955	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1583	1.5720	1.0783	1.9400e-003		0.0776	0.0776		0.0721	0.0721	0.0000	170.0039	170.0039	0.0479	0.0000	171.2002
Total	0.1583	1.5720	1.0783	1.9400e-003	1.2914	0.0776	1.3690	0.1955	0.0721	0.2676	0.0000	170.0039	170.0039	0.0479	0.0000	171.2002

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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	0.0361	1.3935	0.2240	4.5900e-003	0.1027	3.8700e-003	0.1066	0.0282	3.7000e-003	0.0319	0.0000	441.7726	441.7726	0.0249	0.0000	442.3939
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	3.4500e-003	2.6100e-003	0.0267	8.0000e-005	8.2200e-003	5.0000e-005	8.2800e-003	2.1800e-003	5.0000e-005	2.2300e-003	0.0000	6.8243	6.8243	1.9000e-004	0.0000	6.8290
Total	0.0396	1.3961	0.2507	4.6700e-003	0.1109	3.9200e-003	0.1149	0.0304	3.7500e-003	0.0341	0.0000	448.5968	448.5968	0.0250	0.0000	449.2229

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					0.5036	0.0000	0.5036	0.0763	0.0000	0.0763	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1583	1.5720	1.0783	1.9400e-003		0.0776	0.0776		0.0721	0.0721	0.0000	170.0037	170.0037	0.0479	0.0000	171.2000
Total	0.1583	1.5720	1.0783	1.9400e-003	0.5036	0.0776	0.5812	0.0763	0.0721	0.1483	0.0000	170.0037	170.0037	0.0479	0.0000	171.2000

Colton Barton Road - Unmitigated Construction - San Bernardino-South Coast County, Annual

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	0.0361	1.3935	0.2240	4.5900e-003	0.1027	3.8700e-003	0.1066	0.0282	3.7000e-003	0.0319	0.0000	441.7726	441.7726	0.0249	0.0000	442.3939
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	3.4500e-003	2.6100e-003	0.0267	8.0000e-005	8.2200e-003	5.0000e-005	8.2800e-003	2.1800e-003	5.0000e-005	2.2300e-003	0.0000	6.8243	6.8243	1.9000e-004	0.0000	6.8290
Total	0.0396	1.3961	0.2507	4.6700e-003	0.1109	3.9200e-003	0.1149	0.0304	3.7500e-003	0.0341	0.0000	448.5968	448.5968	0.0250	0.0000	449.2229

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					0.1807	0.0000	0.1807	0.0993	0.0000	0.0993	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0389	0.4050	0.2115	3.8000e-004		0.0204	0.0204		0.0188	0.0188	0.0000	33.4357	33.4357	0.0108	0.0000	33.7061
Total	0.0389	0.4050	0.2115	3.8000e-004	0.1807	0.0204	0.2011	0.0993	0.0188	0.1181	0.0000	33.4357	33.4357	0.0108	0.0000	33.7061

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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					0.0705	0.0000	0.0705	0.0387	0.0000	0.0387	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0389	0.4050	0.2115	3.8000e-004		0.0204	0.0204		0.0188	0.0188	0.0000	33.4357	33.4357	0.0108	0.0000	33.7060
Total	0.0389	0.4050	0.2115	3.8000e-004	0.0705	0.0204	0.0909	0.0387	0.0188	0.0575	0.0000	33.4357	33.4357	0.0108	0.0000	33.7060

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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					0.1302	0.0000	0.1302	0.0540	0.0000	0.0540	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0629	0.6960	0.4632	9.3000e-004		0.0298	0.0298		0.0274	0.0274	0.0000	81.7425	81.7425	0.0264	0.0000	82.4034
Total	0.0629	0.6960	0.4632	9.3000e-004	0.1302	0.0298	0.1600	0.0540	0.0274	0.0814	0.0000	81.7425	81.7425	0.0264	0.0000	82.4034

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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	4.7000e-004	0.0181	2.9100e-003	6.0000e-005	1.3300e-003	5.0000e-005	1.3800e-003	3.7000e-004	5.0000e-005	4.1000e-004	0.0000	5.7378	5.7378	3.2000e-004	0.0000	5.7459
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	1.3800e-003	1.0400e-003	0.0107	3.0000e-005	3.2900e-003	2.0000e-005	3.3100e-003	8.7000e-004	2.0000e-005	8.9000e-004	0.0000	2.7297	2.7297	8.0000e-005	0.0000	2.7316
Total	1.8500e-003	0.0191	0.0136	9.0000e-005	4.6200e-003	7.0000e-005	4.6900e-003	1.2400e-003	7.0000e-005	1.3000e-003	0.0000	8.4675	8.4675	4.0000e-004	0.0000	8.4775

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					0.0508	0.0000	0.0508	0.0210	0.0000	0.0210	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0629	0.6960	0.4632	9.3000e-004		0.0298	0.0298		0.0274	0.0274	0.0000	81.7424	81.7424	0.0264	0.0000	82.4033
Total	0.0629	0.6960	0.4632	9.3000e-004	0.0508	0.0298	0.0806	0.0210	0.0274	0.0484	0.0000	81.7424	81.7424	0.0264	0.0000	82.4033

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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	4.7000e-004	0.0181	2.9100e-003	6.0000e-005	1.3300e-003	5.0000e-005	1.3800e-003	3.7000e-004	5.0000e-005	4.1000e-004	0.0000	5.7378	5.7378	3.2000e-004	0.0000	5.7459
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	1.3800e-003	1.0400e-003	0.0107	3.0000e-005	3.2900e-003	2.0000e-005	3.3100e-003	8.7000e-004	2.0000e-005	8.9000e-004	0.0000	2.7297	2.7297	8.0000e-005	0.0000	2.7316
Total	1.8500e-003	0.0191	0.0136	9.0000e-005	4.6200e-003	7.0000e-005	4.6900e-003	1.2400e-003	7.0000e-005	1.3000e-003	0.0000	8.4675	8.4675	4.0000e-004	0.0000	8.4775

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	0.0760	0.6973	0.6630	1.0800e-003		0.0383	0.0383		0.0361	0.0361	0.0000	92.6549	92.6549	0.0224	0.0000	93.2138
Total	0.0760	0.6973	0.6630	1.0800e-003		0.0383	0.0383		0.0361	0.0361	0.0000	92.6549	92.6549	0.0224	0.0000	93.2138

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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	0.0361	1.3231	0.2692	3.6100e-003	0.0857	2.2800e-003	0.0880	0.0248	2.1800e-003	0.0269	0.0000	345.3901	345.3901	0.0233	0.0000	345.9719
Worker	0.1600	0.1210	1.2385	3.5000e-003	0.3811	2.4900e-003	0.3836	0.1012	2.2900e-003	0.1035	0.0000	316.2814	316.2814	8.8500e-003	0.0000	316.5027
Total	0.1961	1.4441	1.5077	7.1100e-003	0.4669	4.7700e-003	0.4716	0.1260	4.4700e-003	0.1304	0.0000	661.6715	661.6715	0.0321	0.0000	662.4746

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	0.0760	0.6973	0.6630	1.0800e-003		0.0383	0.0383		0.0361	0.0361	0.0000	92.6548	92.6548	0.0224	0.0000	93.2136
Total	0.0760	0.6973	0.6630	1.0800e-003		0.0383	0.0383		0.0361	0.0361	0.0000	92.6548	92.6548	0.0224	0.0000	93.2136

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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	0.0361	1.3231	0.2692	3.6100e-003	0.0857	2.2800e-003	0.0880	0.0248	2.1800e-003	0.0269	0.0000	345.3901	345.3901	0.0233	0.0000	345.9719
Worker	0.1600	0.1210	1.2385	3.5000e-003	0.3811	2.4900e-003	0.3836	0.1012	2.2900e-003	0.1035	0.0000	316.2814	316.2814	8.8500e-003	0.0000	316.5027
Total	0.1961	1.4441	1.5077	7.1100e-003	0.4669	4.7700e-003	0.4716	0.1260	4.4700e-003	0.1304	0.0000	661.6715	661.6715	0.0321	0.0000	662.4746

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	0.0384	0.3514	0.3682	6.1000e-004		0.0182	0.0182		0.0171	0.0171	0.0000	52.1382	52.1382	0.0125	0.0000	52.4505
Total	0.0384	0.3514	0.3682	6.1000e-004		0.0182	0.0182		0.0171	0.0171	0.0000	52.1382	52.1382	0.0125	0.0000	52.4505

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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	0.0189	0.7049	0.1402	2.0100e-003	0.0482	1.0800e-003	0.0493	0.0139	1.0300e-003	0.0150	0.0000	192.6992	192.6992	0.0126	0.0000	193.0153
Worker	0.0842	0.0612	0.6389	1.9000e-003	0.2144	1.3600e-003	0.2157	0.0569	1.2500e-003	0.0582	0.0000	171.4977	171.4977	4.4700e-003	0.0000	171.6094
Total	0.1031	0.7660	0.7791	3.9100e-003	0.2626	2.4400e-003	0.2651	0.0709	2.2800e-003	0.0731	0.0000	364.1970	364.1970	0.0171	0.0000	364.6247

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	0.0384	0.3514	0.3682	6.1000e-004		0.0182	0.0182		0.0171	0.0171	0.0000	52.1381	52.1381	0.0125	0.0000	52.4504
Total	0.0384	0.3514	0.3682	6.1000e-004		0.0182	0.0182		0.0171	0.0171	0.0000	52.1381	52.1381	0.0125	0.0000	52.4504

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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	0.0189	0.7049	0.1402	2.0100e-003	0.0482	1.0800e-003	0.0493	0.0139	1.0300e-003	0.0150	0.0000	192.6992	192.6992	0.0126	0.0000	193.0153
Worker	0.0842	0.0612	0.6389	1.9000e-003	0.2144	1.3600e-003	0.2157	0.0569	1.2500e-003	0.0582	0.0000	171.4977	171.4977	4.4700e-003	0.0000	171.6094
Total	0.1031	0.7660	0.7791	3.9100e-003	0.2626	2.4400e-003	0.2651	0.0709	2.2800e-003	0.0731	0.0000	364.1970	364.1970	0.0171	0.0000	364.6247

3.6 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	0.0138	0.1391	0.1823	2.9000e-004		7.1000e-003	7.1000e-003		6.5300e-003	6.5300e-003	0.0000	25.0345	25.0345	8.1000e-003	0.0000	25.2369
Paving	8.5800e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0224	0.1391	0.1823	2.9000e-004		7.1000e-003	7.1000e-003		6.5300e-003	6.5300e-003	0.0000	25.0345	25.0345	8.1000e-003	0.0000	25.2369

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3.6 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	8.1000e-004	5.9000e-004	6.1300e-003	2.0000e-005	2.0600e-003	1.0000e-005	2.0700e-003	5.5000e-004	1.0000e-005	5.6000e-004	0.0000	1.6446	1.6446	4.0000e-005	0.0000	1.6457
Total	8.1000e-004	5.9000e-004	6.1300e-003	2.0000e-005	2.0600e-003	1.0000e-005	2.0700e-003	5.5000e-004	1.0000e-005	5.6000e-004	0.0000	1.6446	1.6446	4.0000e-005	0.0000	1.6457

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	0.0138	0.1391	0.1823	2.9000e-004		7.1000e-003	7.1000e-003		6.5300e-003	6.5300e-003	0.0000	25.0344	25.0344	8.1000e-003	0.0000	25.2368
Paving	8.5800e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0224	0.1391	0.1823	2.9000e-004		7.1000e-003	7.1000e-003		6.5300e-003	6.5300e-003	0.0000	25.0344	25.0344	8.1000e-003	0.0000	25.2368

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3.6 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	8.1000e-004	5.9000e-004	6.1300e-003	2.0000e-005	2.0600e-003	1.0000e-005	2.0700e-003	5.5000e-004	1.0000e-005	5.6000e-004	0.0000	1.6446	1.6446	4.0000e-005	0.0000	1.6457
Total	8.1000e-004	5.9000e-004	6.1300e-003	2.0000e-005	2.0600e-003	1.0000e-005	2.0700e-003	5.5000e-004	1.0000e-005	5.6000e-004	0.0000	1.6446	1.6446	4.0000e-005	0.0000	1.6457

3.7 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	4.6046					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.5600e-003	0.0176	0.0227	4.0000e-005		1.0200e-003	1.0200e-003		1.0200e-003	1.0200e-003	0.0000	3.1916	3.1916	2.1000e-004	0.0000	3.1968
Total	4.6071	0.0176	0.0227	4.0000e-005		1.0200e-003	1.0200e-003		1.0200e-003	1.0200e-003	0.0000	3.1916	3.1916	2.1000e-004	0.0000	3.1968

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3.7 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	9.3600e-003	6.8000e-003	0.0711	2.1000e-004	0.0239	1.5000e-004	0.0240	6.3300e-003	1.4000e-004	6.4700e-003	0.0000	19.0772	19.0772	5.0000e-004	0.0000	19.0897
Total	9.3600e-003	6.8000e-003	0.0711	2.1000e-004	0.0239	1.5000e-004	0.0240	6.3300e-003	1.4000e-004	6.4700e-003	0.0000	19.0772	19.0772	5.0000e-004	0.0000	19.0897

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	4.6046					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.5600e-003	0.0176	0.0227	4.0000e-005		1.0200e-003	1.0200e-003		1.0200e-003	1.0200e-003	0.0000	3.1916	3.1916	2.1000e-004	0.0000	3.1968
Total	4.6071	0.0176	0.0227	4.0000e-005		1.0200e-003	1.0200e-003		1.0200e-003	1.0200e-003	0.0000	3.1916	3.1916	2.1000e-004	0.0000	3.1968

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3.7 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	9.3600e-003	6.8000e-003	0.0711	2.1000e-004	0.0239	1.5000e-004	0.0240	6.3300e-003	1.4000e-004	6.4700e-003	0.0000	19.0772	19.0772	5.0000e-004	0.0000	19.0897
Total	9.3600e-003	6.8000e-003	0.0711	2.1000e-004	0.0239	1.5000e-004	0.0240	6.3300e-003	1.4000e-004	6.4700e-003	0.0000	19.0772	19.0772	5.0000e-004	0.0000	19.0897

4.0 Operational Detail - Mobile**4.1 Mitigation Measures Mobile**

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	ROG	NOx	CO	SO2	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

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Office Building	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

Land Use	Miles			Trip %			Trip Purpose %		
	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
General Office Building	16.60	8.40	6.90	33.00	48.00	19.00	77	19	4
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	16.60	8.40	6.90	59.00	0.00	41.00	92	5	3

4.4 Fleet Mix

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Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
General Office Building	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
Natural Gas 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
Natural Gas 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

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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					
General Office Building	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

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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					
General Office Building	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

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5.3 Energy by Land Use - Electricity**Unmitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
General Office Building	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

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5.3 Energy by Land Use - Electricity**Mitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
General Office Building	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**

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	ROG	NOx	CO	SO2	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	4.0037	2.1000e-004	0.0229	0.0000		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005	0.0000	0.0445	0.0445	1.2000e-004	0.0000	0.0475
Unmitigated	4.0037	2.1000e-004	0.0229	0.0000		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005	0.0000	0.0445	0.0445	1.2000e-004	0.0000	0.0475

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	0.4605					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	3.5411					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	2.1300e-003	2.1000e-004	0.0229	0.0000		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005	0.0000	0.0445	0.0445	1.2000e-004	0.0000	0.0475
Total	4.0037	2.1000e-004	0.0229	0.0000		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005	0.0000	0.0445	0.0445	1.2000e-004	0.0000	0.0475

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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	0.4605					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	3.5411					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	2.1300e-003	2.1000e-004	0.0229	0.0000		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005	0.0000	0.0445	0.0445	1.2000e-004	0.0000	0.0475
Total	4.0037	2.1000e-004	0.0229	0.0000		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005	0.0000	0.0445	0.0445	1.2000e-004	0.0000	0.0475

7.0 Water Detail**7.1 Mitigation Measures Water**

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	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			
General Office Building	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

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7.2 Water by Land Use**Mitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
General Office Building	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**

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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			
General Office Building	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

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8.2 Waste by Land Use**Mitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
General Office Building	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

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Equipment Type	Number

11.0 Vegetation

Colton Barton Road - Unmitigated Off-site Improvements - San Bernardino-South Coast County, Annual

Colton Barton Road - Unmitigated Off-site Improvements

San Bernardino-South Coast County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Other Asphalt Surfaces	21.97	1000sqft	0.50	21,970.00	0
Other Non-Asphalt Surfaces	15.70	1000sqft	0.36	15,700.00	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/MW hr)	598.29	CH4 Intensity (lb/MW hr)	0.029	N2O Intensity (lb/MW hr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - Unmitigated Construction - Off-site Construction

Colton Electric Utility not included as option in CalEEMod - CO2 intensity updated for Colton Electric Utility and accounts for compliance with RPS

Land Use - Off-site asphalt paving would be 21,970 square feet; additional off-site non-asphalt paving for concrete sidewalks would be 15,700 square feet.

Construction Phase - Off-site improvements would occur concurrently with on-site improvements. Adjusted schedule based on applicant-providing total duration for off-site improvements.

Grading -

Energy Use -

Construction Off-road Equipment Mitigation - Compliance with SCAQMD Rule 403

Colton Barton Road - Unmitigated Off-site Improvements - San Bernardino-South Coast County, Annual

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	WaterUnpavedRoadMoistureContent	0	12
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstructionPhase	NumDays	2.00	13.00
tblConstructionPhase	NumDays	5.00	31.00
tblConstructionPhase	NumDays	1.00	6.00
tblProjectCharacteristics	CO2IntensityFactor	702.44	598.29

2.0 Emissions Summary

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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	0.0206	0.1760	0.1840	3.2000e-004	0.0104	9.0500e-003	0.0195	3.9100e-003	8.4700e-003	0.0124	0.0000	27.1562	27.1562	6.4200e-003	0.0000	27.3168
Maximum	0.0206	0.1760	0.1840	3.2000e-004	0.0104	9.0500e-003	0.0195	3.9100e-003	8.4700e-003	0.0124	0.0000	27.1562	27.1562	6.4200e-003	0.0000	27.3168

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	0.0206	0.1760	0.1840	3.2000e-004	6.4600e-003	9.0500e-003	0.0155	2.1600e-003	8.4700e-003	0.0106	0.0000	27.1562	27.1562	6.4200e-003	0.0000	27.3168
Maximum	0.0206	0.1760	0.1840	3.2000e-004	6.4600e-003	9.0500e-003	0.0155	2.1600e-003	8.4700e-003	0.0106	0.0000	27.1562	27.1562	6.4200e-003	0.0000	27.3168

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	38.00	0.00	20.34	44.76	0.00	14.14	0.00	0.00	0.00	0.00	0.00	0.00

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Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	9-13-2021	9-30-2021	0.0182	0.0182
		Highest	0.0182	0.0182

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	3.0000e-003	0.0000	4.8000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	9.3000e-004	9.3000e-004	0.0000	0.0000	1.0000e-003
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	3.0000e-003	0.0000	4.8000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	9.3000e-004	9.3000e-004	0.0000	0.0000	1.0000e-003

Colton Barton Road - Unmitigated Off-site Improvements - San Bernardino-South Coast County, Annual

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	3.0000e-003	0.0000	4.8000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	9.3000e-004	9.3000e-004	0.0000	0.0000	1.0000e-003
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	3.0000e-003	0.0000	4.8000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	9.3000e-004	9.3000e-004	0.0000	0.0000	1.0000e-003

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	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	Site Preparation	Site Preparation	9/25/2021	10/4/2021	5	6	
2	Grading	Grading	10/5/2021	10/21/2021	5	13	
3	Paving	Paving	10/22/2021	12/3/2021	5	31	

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Acres of Grading (Site Preparation Phase): 3**Acres of Grading (Grading Phase): 0****Acres of Paving: 0.86****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
Site Preparation	Graders	1	8.00	187	0.41
Site Preparation	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Grading	Concrete/Industrial Saws	1	8.00	81	0.73
Grading	Rubber Tired Dozers	1	1.00	247	0.40
Grading	Tractors/Loaders/Backhoes	2	6.00	97	0.37
Paving	Cement and Mortar Mixers	4	6.00	9	0.56
Paving	Pavers	1	7.00	130	0.42
Paving	Rollers	1	7.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	7.00	97	0.37

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
Site Preparation	2	5.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	4	10.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	7	18.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

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Water Exposed Area

Water Unpaved Roads

Reduce Vehicle Speed on Unpaved Roads

3.2 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					1.5900e-003	0.0000	1.5900e-003	1.7000e-004	0.0000	1.7000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.9200e-003	0.0235	0.0121	3.0000e-005		9.0000e-004	9.0000e-004		8.3000e-004	8.3000e-004	0.0000	2.5653	2.5653	8.3000e-004	0.0000	2.5860
Total	1.9200e-003	0.0235	0.0121	3.0000e-005	1.5900e-003	9.0000e-004	2.4900e-003	1.7000e-004	8.3000e-004	1.0000e-003	0.0000	2.5653	2.5653	8.3000e-004	0.0000	2.5860

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3.2 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	7.0000e-005	5.0000e-005	5.3000e-004	0.0000	1.6000e-004	0.0000	1.7000e-004	4.0000e-005	0.0000	4.0000e-005	0.0000	0.1365	0.1365	0.0000	0.0000	0.1366
Total	7.0000e-005	5.0000e-005	5.3000e-004	0.0000	1.6000e-004	0.0000	1.7000e-004	4.0000e-005	0.0000	4.0000e-005	0.0000	0.1365	0.1365	0.0000	0.0000	0.1366

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					6.2000e-004	0.0000	6.2000e-004	7.0000e-005	0.0000	7.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.9200e-003	0.0235	0.0121	3.0000e-005		9.0000e-004	9.0000e-004		8.3000e-004	8.3000e-004	0.0000	2.5653	2.5653	8.3000e-004	0.0000	2.5860
Total	1.9200e-003	0.0235	0.0121	3.0000e-005	6.2000e-004	9.0000e-004	1.5200e-003	7.0000e-005	8.3000e-004	9.0000e-004	0.0000	2.5653	2.5653	8.3000e-004	0.0000	2.5860

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3.2 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	7.0000e-005	5.0000e-005	5.3000e-004	0.0000	1.6000e-004	0.0000	1.7000e-004	4.0000e-005	0.0000	4.0000e-005	0.0000	0.1365	0.1365	0.0000	0.0000	0.1366
Total	7.0000e-005	5.0000e-005	5.3000e-004	0.0000	1.6000e-004	0.0000	1.7000e-004	4.0000e-005	0.0000	4.0000e-005	0.0000	0.1365	0.1365	0.0000	0.0000	0.1366

3.3 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					4.8900e-003	0.0000	4.8900e-003	2.6900e-003	0.0000	2.6900e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	5.1800e-003	0.0471	0.0492	8.0000e-005		2.6500e-003	2.6500e-003		2.5300e-003	2.5300e-003	0.0000	6.7661	6.7661	1.2600e-003	0.0000	6.7976
Total	5.1800e-003	0.0471	0.0492	8.0000e-005	4.8900e-003	2.6500e-003	7.5400e-003	2.6900e-003	2.5300e-003	5.2200e-003	0.0000	6.7661	6.7661	1.2600e-003	0.0000	6.7976

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3.3 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	3.0000e-004	2.3000e-004	2.3200e-003	1.0000e-005	7.1000e-004	0.0000	7.2000e-004	1.9000e-004	0.0000	1.9000e-004	0.0000	0.5914	0.5914	2.0000e-005	0.0000	0.5919
Total	3.0000e-004	2.3000e-004	2.3200e-003	1.0000e-005	7.1000e-004	0.0000	7.2000e-004	1.9000e-004	0.0000	1.9000e-004	0.0000	0.5914	0.5914	2.0000e-005	0.0000	0.5919

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					1.9100e-003	0.0000	1.9100e-003	1.0500e-003	0.0000	1.0500e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	5.1800e-003	0.0471	0.0492	8.0000e-005		2.6500e-003	2.6500e-003		2.5300e-003	2.5300e-003	0.0000	6.7661	6.7661	1.2600e-003	0.0000	6.7976
Total	5.1800e-003	0.0471	0.0492	8.0000e-005	1.9100e-003	2.6500e-003	4.5600e-003	1.0500e-003	2.5300e-003	3.5800e-003	0.0000	6.7661	6.7661	1.2600e-003	0.0000	6.7976

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3.3 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	3.0000e-004	2.3000e-004	2.3200e-003	1.0000e-005	7.1000e-004	0.0000	7.2000e-004	1.9000e-004	0.0000	1.9000e-004	0.0000	0.5914	0.5914	2.0000e-005	0.0000	0.5919
Total	3.0000e-004	2.3000e-004	2.3200e-003	1.0000e-005	7.1000e-004	0.0000	7.2000e-004	1.9000e-004	0.0000	1.9000e-004	0.0000	0.5914	0.5914	2.0000e-005	0.0000	0.5919

3.4 Paving - 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	0.0112	0.1041	0.1099	1.7000e-004		5.4800e-003	5.4800e-003		5.0900e-003	5.0900e-003	0.0000	14.5583	14.5583	4.2400e-003	0.0000	14.6643
Paving	6.6000e-004					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0118	0.1041	0.1099	1.7000e-004		5.4800e-003	5.4800e-003		5.0900e-003	5.0900e-003	0.0000	14.5583	14.5583	4.2400e-003	0.0000	14.6643

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3.4 Paving - 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	1.2800e-003	9.7000e-004	9.9400e-003	3.0000e-005	3.0600e-003	2.0000e-005	3.0800e-003	8.1000e-004	2.0000e-005	8.3000e-004	0.0000	2.5386	2.5386	7.0000e-005	0.0000	2.5404
Total	1.2800e-003	9.7000e-004	9.9400e-003	3.0000e-005	3.0600e-003	2.0000e-005	3.0800e-003	8.1000e-004	2.0000e-005	8.3000e-004	0.0000	2.5386	2.5386	7.0000e-005	0.0000	2.5404

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	0.0112	0.1041	0.1099	1.7000e-004		5.4800e-003	5.4800e-003		5.0900e-003	5.0900e-003	0.0000	14.5583	14.5583	4.2400e-003	0.0000	14.6643
Paving	6.6000e-004					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0118	0.1041	0.1099	1.7000e-004		5.4800e-003	5.4800e-003		5.0900e-003	5.0900e-003	0.0000	14.5583	14.5583	4.2400e-003	0.0000	14.6643

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3.4 Paving - 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	1.2800e-003	9.7000e-004	9.9400e-003	3.0000e-005	3.0600e-003	2.0000e-005	3.0800e-003	8.1000e-004	2.0000e-005	8.3000e-004	0.0000	2.5386	2.5386	7.0000e-005	0.0000	2.5404
Total	1.2800e-003	9.7000e-004	9.9400e-003	3.0000e-005	3.0600e-003	2.0000e-005	3.0800e-003	8.1000e-004	2.0000e-005	8.3000e-004	0.0000	2.5386	2.5386	7.0000e-005	0.0000	2.5404

4.0 Operational Detail - Mobile**4.1 Mitigation Measures Mobile**

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	ROG	NOx	CO	SO2	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

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	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		
Total	0.00	0.00	0.00		

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	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

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

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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

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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
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

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
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

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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
Total		0.0000	0.0000	0.0000	0.0000

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
Total		0.0000	0.0000	0.0000	0.0000

6.0 Area Detail**6.1 Mitigation Measures Area**

Colton Barton Road - Unmitigated Off-site Improvements - San Bernardino-South Coast County, Annual

	ROG	NOx	CO	SO2	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	3.0000e-003	0.0000	4.8000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	9.3000e-004	9.3000e-004	0.0000	0.0000	1.0000e-003
Unmitigated	3.0000e-003	0.0000	4.8000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	9.3000e-004	9.3000e-004	0.0000	0.0000	1.0000e-003

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	5.2000e-004					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	2.4400e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	4.0000e-005	0.0000	4.8000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	9.3000e-004	9.3000e-004	0.0000	0.0000	1.0000e-003
Total	3.0000e-003	0.0000	4.8000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	9.3000e-004	9.3000e-004	0.0000	0.0000	1.0000e-003

Colton Barton Road - Unmitigated Off-site Improvements - San Bernardino-South Coast County, Annual

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	5.2000e-004					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	2.4400e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	4.0000e-005	0.0000	4.8000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	9.3000e-004	9.3000e-004	0.0000	0.0000	1.0000e-003
Total	3.0000e-003	0.0000	4.8000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	9.3000e-004	9.3000e-004	0.0000	0.0000	1.0000e-003

7.0 Water Detail**7.1 Mitigation Measures Water**

Colton Barton Road - Unmitigated Off-site Improvements - San Bernardino-South Coast County, Annual

	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
Total		0.0000	0.0000	0.0000	0.0000

Colton Barton Road - Unmitigated Off-site Improvements - San Bernardino-South Coast County, Annual

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
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

Colton Barton Road - Unmitigated Off-site Improvements - San Bernardino-South Coast County, Annual

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
Total		0.0000	0.0000	0.0000	0.0000

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
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

Colton Barton Road - Unmitigated Off-site Improvements - San Bernardino-South Coast County, Annual

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

Colton Barton Road - Unmitigated Construction - San Bernardino-South Coast County, Summer

Colton Barton Road - Unmitigated Construction
San Bernardino-South Coast County, Summer

1.0 Project Characteristics**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	20.00	1000sqft	0.46	20,000.00	0
Unrefrigerated Warehouse-No Rail	940.04	1000sqft	21.58	940,040.00	0
Other Non-Asphalt Surfaces	827.87	1000sqft	19.01	827,873.00	0
Parking Lot	6.55	Acre	6.55	285,318.00	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/MW hr)	598.29	CH4 Intensity (lb/MW hr)	0.029	N2O Intensity (lb/MW hr)	0.006

1.3 User Entered Comments & Non-Default Data

Colton Barton Road - Unmitigated Construction - San Bernardino-South Coast County, Summer

Project Characteristics - Unmitigated Construction

Colton Electric Utility not included as option in CalEEMod - CO2 intensity updated for Colton Electric Utility and accounts for compliance with RPS

Land Use - Based on site plan, project description, and applicant-provided response to information request.

Construction Phase - Applicant-provided construction schedule, consistent with the project description

Trips and VMT -

Demolition - The total building square footage that would be demolished is 659,435 square feet. The total amount of hardscape to be demolished or removed, including asphalt concrete, concrete pavement, and concrete building slab, would be 1,603,931 square feet.

Grading - The total import volume would be 1,238 cubic yards. There would be no export volume.

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 - Compliance with SCAQMD Rule 403

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	WaterUnpavedRoadMoistureContent	0	12
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstructionPhase	NumDays	55.00	25.00
tblConstructionPhase	NumDays	740.00	125.00
tblConstructionPhase	NumDays	50.00	100.00
tblConstructionPhase	NumDays	75.00	30.00
tblConstructionPhase	NumDays	55.00	25.00
tblConstructionPhase	NumDays	30.00	20.00
tblEnergyUse	LightingElect	3.66	0.00
tblEnergyUse	LightingElect	0.35	0.00
tblEnergyUse	LightingElect	1.17	0.00
tblEnergyUse	NT24E	2.79	0.00
tblEnergyUse	NT24E	0.82	0.00

Colton Barton Road - Unmitigated Construction - San Bernardino-South Coast County, Summer

tblEnergyUse	NT24NG	0.03	0.00
tblEnergyUse	T24E	3.07	0.00
tblEnergyUse	T24E	0.37	0.00
tblEnergyUse	T24NG	3.47	0.00
tblEnergyUse	T24NG	2.00	0.00
tblGrading	MaterialImported	0.00	1,238.00
tblLandUse	LandUseSquareFeet	827,870.00	827,873.00
tblProjectCharacteristics	CO2IntensityFactor	702.44	598.29
tblSolidWaste	SolidWasteGenerationRate	18.60	0.00
tblSolidWaste	SolidWasteGenerationRate	883.64	0.00
tblVehicleTrips	ST_TR	2.46	0.00
tblVehicleTrips	ST_TR	1.68	0.00
tblVehicleTrips	SU_TR	1.05	0.00
tblVehicleTrips	SU_TR	1.68	0.00
tblVehicleTrips	WD_TR	11.03	0.00
tblVehicleTrips	WD_TR	1.68	0.00
tblWater	IndoorWaterUseRate	3,554,674.96	0.00
tblWater	IndoorWaterUseRate	217,384,250.00	0.00
tblWater	OutdoorWaterUseRate	2,178,671.75	0.00

2.0 Emissions Summary

Colton Barton Road - Unmitigated Construction - San Bernardino-South Coast County, Summer

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	7.1961	58.7076	58.7201	0.2141	28.0839	2.0458	29.7133	9.9840	1.8821	11.8661	0.0000	21,736.9601	21,736.9601	1.9719	0.0000	21,774.4124
2022	369.3960	49.1666	55.1162	0.2099	11.8909	0.9166	12.8075	3.2030	0.8618	4.0649	0.0000	21,317.2864	21,317.2864	1.4450	0.0000	21,353.4109
Maximum	369.3960	58.7076	58.7201	0.2141	28.0839	2.0458	29.7133	9.9840	1.8821	11.8661	0.0000	21,736.9601	21,736.9601	1.9719	0.0000	21,774.4124

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	7.1961	58.7076	58.7201	0.2141	12.3290	2.0458	13.9584	3.9263	1.8821	5.8084	0.0000	21,736.9601	21,736.9601	1.9719	0.0000	21,774.4124
2022	369.3960	49.1666	55.1162	0.2099	11.8909	0.9166	12.8075	3.2030	0.8618	4.0649	0.0000	21,317.2864	21,317.2864	1.4450	0.0000	21,353.4109
Maximum	369.3960	58.7076	58.7201	0.2141	12.3290	2.0458	13.9584	3.9263	1.8821	5.8084	0.0000	21,736.9601	21,736.9601	1.9719	0.0000	21,774.4124

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	39.41	0.00	37.05	45.94	0.00	38.02	0.00	0.00	0.00	0.00	0.00	0.00

Colton Barton Road - Unmitigated Construction - San Bernardino-South Coast County, Summer

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	21.9432	1.6800e-003	0.1835	1.0000e-005		6.6000e-004	6.6000e-004		6.6000e-004	6.6000e-004		0.3927	0.3927	1.0400e-003		0.4186
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	21.9432	1.6800e-003	0.1835	1.0000e-005	0.0000	6.6000e-004	6.6000e-004	0.0000	6.6000e-004	6.6000e-004		0.3927	0.3927	1.0400e-003	0.0000	0.4186

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	21.9432	1.6800e-003	0.1835	1.0000e-005		6.6000e-004	6.6000e-004		6.6000e-004	6.6000e-004		0.3927	0.3927	1.0400e-003		0.4186
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	21.9432	1.6800e-003	0.1835	1.0000e-005	0.0000	6.6000e-004	6.6000e-004	0.0000	6.6000e-004	6.6000e-004		0.3927	0.3927	1.0400e-003	0.0000	0.4186

Colton Barton Road - Unmitigated Construction - San Bernardino-South Coast County, Summer

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	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	2/15/2021	7/2/2021	5	100	
2	Site Preparation	Site Preparation	7/3/2021	7/30/2021	5	20	
3	Grading	Grading	7/31/2021	9/10/2021	5	30	
4	Building Construction	Building Construction	9/11/2021	3/4/2022	5	125	
5	Paving	Paving	3/5/2022	4/8/2022	5	25	
6	Architectural Coating	Architectural Coating	4/9/2022	5/13/2022	5	25	

Acres of Grading (Site Preparation Phase): 0**Acres of Grading (Grading Phase): 75****Acres of Paving: 25.56****Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 1,440,060; Non-Residential Outdoor: 480,020; Striped Parking Area: 66,791 (Architectural Coating – sqft)****OffRoad Equipment**

Colton Barton Road - Unmitigated Construction - 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	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
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	2	8.00	97	0.37
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	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	6.00	78	0.48

Trips and VMT

Colton Barton Road - Unmitigated Construction - San Bernardino-South Coast County, Summer

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	11,934.00	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	155.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	869.00	340.00	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	174.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

Water Unpaved Roads

Reduce Vehicle Speed on Unpaved Roads

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					25.8277	0.0000	25.8277	3.9106	0.0000	3.9106			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	25.8277	1.5513	27.3791	3.9106	1.4411	5.3516		3,747.9449	3,747.9449	1.0549		3,774.3174

Colton Barton Road - Unmitigated Construction - San Bernardino-South Coast County, Summer

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	0.7091	27.2198	4.2159	0.0927	2.0885	0.0770	2.1655	0.5726	0.0737	0.6463		9,847.8137	9,847.8137	0.5279		9,861.0109
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	0.7853	27.2670	4.8369	0.0944	2.2561	0.0781	2.3342	0.6171	0.0747	0.6917		10,011.9258	10,011.9258	0.5326		10,025.2397

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					10.0728	0.0000	10.0728	1.5251	0.0000	1.5251			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	10.0728	1.5513	11.6242	1.5251	1.4411	2.9662	0.0000	3,747.9449	3,747.9449	1.0549		3,774.3174

Colton Barton Road - Unmitigated Construction - San Bernardino-South Coast County, Summer

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	0.7091	27.2198	4.2159	0.0927	2.0885	0.0770	2.1655	0.5726	0.0737	0.6463		9,847.8137	9,847.8137	0.5279		9,861.0109
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	0.7853	27.2670	4.8369	0.0944	2.2561	0.0781	2.3342	0.6171	0.0747	0.6917		10,011.9258	10,011.9258	0.5326		10,025.2397

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					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	3.8882	40.4971	21.1543	0.0380		2.0445	2.0445		1.8809	1.8809		3,685.6569	3,685.6569	1.1920		3,715.4573
Total	3.8882	40.4971	21.1543	0.0380	18.0663	2.0445	20.1107	9.9307	1.8809	11.8116		3,685.6569	3,685.6569	1.1920		3,715.4573

Colton Barton Road - Unmitigated Construction - San Bernardino-South Coast County, Summer

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					7.0458	0.0000	7.0458	3.8730	0.0000	3.8730			0.0000			0.0000
Off-Road	3.8882	40.4971	21.1543	0.0380		2.0445	2.0445		1.8809	1.8809	0.0000	3,685.6569	3,685.6569	1.1920		3,715,4573
Total	3.8882	40.4971	21.1543	0.0380	7.0458	2.0445	9.0903	3.8730	1.8809	5.7539	0.0000	3,685.6569	3,685.6569	1.1920		3,715,4573

Colton Barton Road - Unmitigated Construction - San Bernardino-South Coast County, Summer

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					8.6780	0.0000	8.6780	3.5972	0.0000	3.5972			0.0000			0.0000
Off-Road	4.1912	46.3998	30.8785	0.0620		1.9853	1.9853		1.8265	1.8265		6,007.0434	6,007.0434	1.9428		6,055.6134
Total	4.1912	46.3998	30.8785	0.0620	8.6780	1.9853	10.6633	3.5972	1.8265	5.4237		6,007.0434	6,007.0434	1.9428		6,055.6134

Colton Barton Road - Unmitigated Construction - San Bernardino-South Coast County, Summer

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	0.0307	1.1785	0.1825	4.0100e-003	0.0904	3.3300e-003	0.0938	0.0248	3.1900e-003	0.0280		426.3480	426.3480	0.0229		426.9194
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	0.1323	1.2413	1.0105	6.2100e-003	0.3140	4.7600e-003	0.3187	0.0841	4.5100e-003	0.0886		645.1641	645.1641	0.0291		645.8912

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					3.3844	0.0000	3.3844	1.4029	0.0000	1.4029			0.0000			0.0000
Off-Road	4.1912	46.3998	30.8785	0.0620		1.9853	1.9853		1.8265	1.8265	0.0000	6,007.0434	6,007.0434	1.9428		6,055.6134
Total	4.1912	46.3998	30.8785	0.0620	3.3844	1.9853	5.3698	1.4029	1.8265	3.2294	0.0000	6,007.0434	6,007.0434	1.9428		6,055.6134

Colton Barton Road - Unmitigated Construction - San Bernardino-South Coast County, Summer

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	0.0307	1.1785	0.1825	4.0100e-003	0.0904	3.3300e-003	0.0938	0.0248	3.1900e-003	0.0280		426.3480	426.3480	0.0229		426.9194
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	0.1323	1.2413	1.0105	6.2100e-003	0.3140	4.7600e-003	0.3187	0.0841	4.5100e-003	0.0886		645.1641	645.1641	0.0291		645.8912

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	1.9009	17.4321	16.5752	0.0269		0.9586	0.9586		0.9013	0.9013		2,553.3639	2,553.3639	0.6160		2,568.7643
Total	1.9009	17.4321	16.5752	0.0269		0.9586	0.9586		0.9013	0.9013		2,553.3639	2,553.3639	0.6160		2,568.7643

Colton Barton Road - Unmitigated Construction - San Bernardino-South Coast County, Summer

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	0.8799	32.7887	6.1698	0.0917	2.1776	0.0562	2.2338	0.6270	0.0538	0.6808		9,676.0365	9,676.0365	0.6115		9,691.3235
Worker	4.4153	2.7292	35.9752	0.0955	9.7134	0.0621	9.7755	2.5760	0.0572	2.6332		9,507.5597	9,507.5597	0.2706		9,514.3246
Total	5.2952	35.5179	42.1449	0.1872	11.8910	0.1184	12.0093	3.2030	0.1110	3.3140		19,183.5962	19,183.5962	0.8821		19,205.6481

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	1.9009	17.4321	16.5752	0.0269		0.9586	0.9586		0.9013	0.9013	0.0000	2,553.3639	2,553.3639	0.6160		2,568.7643
Total	1.9009	17.4321	16.5752	0.0269		0.9586	0.9586		0.9013	0.9013	0.0000	2,553.3639	2,553.3639	0.6160		2,568.7643

Colton Barton Road - Unmitigated Construction - San Bernardino-South Coast County, Summer

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	0.8799	32.7887	6.1698	0.0917	2.1776	0.0562	2.2338	0.6270	0.0538	0.6808		9,676.0365	9,676.0365	0.6115		9,691.3235
Worker	4.4153	2.7292	35.9752	0.0955	9.7134	0.0621	9.7755	2.5760	0.0572	2.6332		9,507.5597	9,507.5597	0.2706		9,514.3246
Total	5.2952	35.5179	42.1449	0.1872	11.8910	0.1184	12.0093	3.2030	0.1110	3.3140		19,183.5962	19,183.5962	0.8821		19,205.6481

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	1.7062	15.6156	16.3634	0.0269		0.8090	0.8090		0.7612	0.7612		2,554.3336	2,554.3336	0.6120		2,569.6322
Total	1.7062	15.6156	16.3634	0.0269		0.8090	0.8090		0.7612	0.7612		2,554.3336	2,554.3336	0.6120		2,569.6322

Colton Barton Road - Unmitigated Construction - San Bernardino-South Coast County, Summer

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	0.8196	31.0971	5.7044	0.0910	2.1776	0.0472	2.2248	0.6270	0.0452	0.6722		9,598.4578	9,598.4578	0.5903		9,613.2157
Worker	4.1233	2.4539	33.0485	0.0920	9.7134	0.0603	9.7737	2.5760	0.0555	2.6316		9,164.4950	9,164.4950	0.2427		9,170.5630
Total	4.9430	33.5509	38.7528	0.1830	11.8909	0.1075	11.9985	3.2030	0.1007	3.3037		18,762.9528	18,762.9528	0.8330		18,783.7786

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	1.7062	15.6156	16.3634	0.0269		0.8090	0.8090		0.7612	0.7612	0.0000	2,554.3336	2,554.3336	0.6120		2,569.6322
Total	1.7062	15.6156	16.3634	0.0269		0.8090	0.8090		0.7612	0.7612	0.0000	2,554.3336	2,554.3336	0.6120		2,569.6322

Colton Barton Road - Unmitigated Construction - San Bernardino-South Coast County, Summer

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	0.8196	31.0971	5.7044	0.0910	2.1776	0.0472	2.2248	0.6270	0.0452	0.6722		9,598.4578	9,598.4578	0.5903		9,613.2157
Worker	4.1233	2.4539	33.0485	0.0920	9.7134	0.0603	9.7737	2.5760	0.0555	2.6316		9,164.4950	9,164.4950	0.2427		9,170.5630
Total	4.9430	33.5509	38.7528	0.1830	11.8909	0.1075	11.9985	3.2030	0.1007	3.3037		18,762.9528	18,762.9528	0.8330		18,783.7786

3.6 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	0.6864					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.7893	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

Colton Barton Road - Unmitigated Construction - San Bernardino-South Coast County, Summer

3.6 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	0.6864					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.7893	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

Colton Barton Road - Unmitigated Construction - San Bernardino-South Coast County, Summer

3.6 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

3.7 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	368.3659					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2045	1.4085	1.8136	2.9700e-003		0.0817	0.0817		0.0817	0.0817		281.4481	281.4481	0.0183		281.9062
Total	368.5704	1.4085	1.8136	2.9700e-003		0.0817	0.0817		0.0817	0.0817		281.4481	281.4481	0.0183		281.9062

Colton Barton Road - Unmitigated Construction - San Bernardino-South Coast County, Summer

3.7 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	0.8256	0.4913	6.6173	0.0184	1.9449	0.0121	1.9570	0.5158	0.0111	0.5269		1,835.008 2	1,835.008 2	0.0486		1,836.223 2
Total	0.8256	0.4913	6.6173	0.0184	1.9449	0.0121	1.9570	0.5158	0.0111	0.5269		1,835.008 2	1,835.008 2	0.0486		1,836.223 2

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	368.3659					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2045	1.4085	1.8136	2.9700e-003		0.0817	0.0817		0.0817	0.0817	0.0000	281.4481	281.4481	0.0183		281.9062
Total	368.5704	1.4085	1.8136	2.9700e-003		0.0817	0.0817		0.0817	0.0817	0.0000	281.4481	281.4481	0.0183		281.9062

Colton Barton Road - Unmitigated Construction - San Bernardino-South Coast County, Summer

3.7 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	0.8256	0.4913	6.6173	0.0184	1.9449	0.0121	1.9570	0.5158	0.0111	0.5269		1,835.008 2	1,835.008 2	0.0486		1,836.223 2
Total	0.8256	0.4913	6.6173	0.0184	1.9449	0.0121	1.9570	0.5158	0.0111	0.5269		1,835.008 2	1,835.008 2	0.0486		1,836.223 2

4.0 Operational Detail - Mobile**4.1 Mitigation Measures Mobile**

Colton Barton Road - Unmitigated Construction - San Bernardino-South Coast County, Summer

	ROG	NOx	CO	SO2	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

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Office Building	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

Land Use	Miles			Trip %			Trip Purpose %		
	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
General Office Building	16.60	8.40	6.90	33.00	48.00	19.00	77	19	4
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	16.60	8.40	6.90	59.00	0.00	41.00	92	5	3

4.4 Fleet Mix

Colton Barton Road - Unmitigated Construction - San Bernardino-South Coast County, Summer

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
General Office Building	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

Colton Barton Road - Unmitigated Construction - San Bernardino-South Coast County, Summer

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					
General Office Building	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

Colton Barton Road - Unmitigated Construction - San Bernardino-South Coast County, Summer

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					
General Office Building	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**

Colton Barton Road - Unmitigated Construction - San Bernardino-South Coast County, Summer

	ROG	NOx	CO	SO2	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	21.9432	1.6800e-003	0.1835	1.0000e-005		6.6000e-004	6.6000e-004		6.6000e-004	6.6000e-004		0.3927	0.3927	1.0400e-003		0.4186
Unmitigated	21.9432	1.6800e-003	0.1835	1.0000e-005		6.6000e-004	6.6000e-004		6.6000e-004	6.6000e-004		0.3927	0.3927	1.0400e-003		0.4186

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	2.5231					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	19.4031					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0171	1.6800e-003	0.1835	1.0000e-005		6.6000e-004	6.6000e-004		6.6000e-004	6.6000e-004		0.3927	0.3927	1.0400e-003		0.4186
Total	21.9432	1.6800e-003	0.1835	1.0000e-005		6.6000e-004	6.6000e-004		6.6000e-004	6.6000e-004		0.3927	0.3927	1.0400e-003		0.4186

Colton Barton Road - Unmitigated Construction - San Bernardino-South Coast County, Summer

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	2.5231					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	19.4031					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0171	1.6800e-003	0.1835	1.0000e-005		6.6000e-004	6.6000e-004		6.6000e-004	6.6000e-004		0.3927	0.3927	1.0400e-003		0.4186
Total	21.9432	1.6800e-003	0.1835	1.0000e-005		6.6000e-004	6.6000e-004		6.6000e-004	6.6000e-004		0.3927	0.3927	1.0400e-003		0.4186

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**

Colton Barton Road - Unmitigated Construction - San Bernardino-South Coast County, Summer

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

Colton Barton Road - Unmitigated Off-site Improvements - San Bernardino-South Coast County, Summer

Colton Barton Road - Unmitigated Off-site Improvements

San Bernardino-South Coast County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Other Asphalt Surfaces	21.97	1000sqft	0.50	21,970.00	0
Other Non-Asphalt Surfaces	15.70	1000sqft	0.36	15,700.00	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)	598.29	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - Unmitigated Construction - Of-site Construction

Colton Electric Utility not included as option in CalEEMod - CO2 intensity updated for Colton Electric Utility and accounts for compliance with RPS

Land Use - Off-site asphalt paving would be 21,970 square feet; additional off-site non-asphalt paving for concrete sidewalks would be 15,700 square feet.

Construction Phase - Off-site improvements would occur concurrently with on-site improvements. Adjusted schedule based on applicant-providing total duration for off-site improvements.

Grading -

Energy Use -

Construction Off-road Equipment Mitigation - Compliance with SCAQMD Rule 403

Colton Barton Road - Unmitigated Off-site Improvements - San Bernardino-South Coast County, Summer

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	WaterUnpavedRoadMoistureContent	0	12
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstructionPhase	NumDays	2.00	13.00
tblConstructionPhase	NumDays	5.00	31.00
tblConstructionPhase	NumDays	1.00	6.00
tblProjectCharacteristics	CO2IntensityFactor	702.44	598.29

2.0 Emissions Summary

Colton Barton Road - Unmitigated Off-site Improvements - San Bernardino-South Coast County, Summer

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	0.8551	7.8361	7.9831	0.0132	0.8645	0.4081	1.2726	0.4434	0.3893	0.8327	0.0000	1,256.8418	1,256.8418	0.3072	0.0000	1,262.2656
Maximum	0.8551	7.8361	7.9831	0.0132	0.8645	0.4081	1.2726	0.4434	0.3893	0.8327	0.0000	1,256.8418	1,256.8418	0.3072	0.0000	1,262.2656

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	0.8551	7.8361	7.9831	0.0132	0.4054	0.4081	0.8134	0.1910	0.3893	0.5803	0.0000	1,256.8418	1,256.8418	0.3072	0.0000	1,262.2656
Maximum	0.8551	7.8361	7.9831	0.0132	0.4054	0.4081	0.8134	0.1910	0.3893	0.5803	0.0000	1,256.8418	1,256.8418	0.3072	0.0000	1,262.2656

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	53.11	0.00	36.08	56.92	0.00	30.31	0.00	0.00	0.00	0.00	0.00	0.00

Colton Barton Road - Unmitigated Off-site Improvements - San Bernardino-South Coast County, Summer

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	0.0166	4.0000e-005	3.8500e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		8.2400e-003	8.2400e-003	2.0000e-005		8.7900e-003
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	0.0166	4.0000e-005	3.8500e-003	0.0000	0.0000	1.0000e-005	1.0000e-005	0.0000	1.0000e-005	1.0000e-005		8.2400e-003	8.2400e-003	2.0000e-005	0.0000	8.7900e-003

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	0.0166	4.0000e-005	3.8500e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		8.2400e-003	8.2400e-003	2.0000e-005		8.7900e-003
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	0.0166	4.0000e-005	3.8500e-003	0.0000	0.0000	1.0000e-005	1.0000e-005	0.0000	1.0000e-005	1.0000e-005		8.2400e-003	8.2400e-003	2.0000e-005	0.0000	8.7900e-003

Colton Barton Road - Unmitigated Off-site Improvements - San Bernardino-South Coast County, Summer

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	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	Site Preparation	Site Preparation	9/25/2021	10/4/2021	5	6	
2	Grading	Grading	10/5/2021	10/21/2021	5	13	
3	Paving	Paving	10/22/2021	12/3/2021	5	31	

Acres of Grading (Site Preparation Phase): 3**Acres of Grading (Grading Phase): 0****Acres of Paving: 0.86****Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)****OffRoad Equipment**

Colton Barton Road - Unmitigated Off-site Improvements - San Bernardino-South Coast County, Summer

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Graders	1	8.00	187	0.41
Site Preparation	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Grading	Concrete/Industrial Saws	1	8.00	81	0.73
Grading	Rubber Tired Dozers	1	1.00	247	0.40
Grading	Tractors/Loaders/Backhoes	2	6.00	97	0.37
Paving	Cement and Mortar Mixers	4	6.00	9	0.56
Paving	Pavers	1	7.00	130	0.42
Paving	Rollers	1	7.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	7.00	97	0.37

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
Site Preparation	2	5.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	4	10.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	7	18.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

Water Unpaved Roads

Reduce Vehicle Speed on Unpaved Roads

Colton Barton Road - Unmitigated Off-site Improvements - San Bernardino-South Coast County, Summer

3.2 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					0.5303	0.0000	0.5303	0.0573	0.0000	0.0573			0.0000			0.0000
Off-Road	0.6403	7.8204	4.0274	9.7300e-003		0.2995	0.2995		0.2755	0.2755		942.5842	942.5842	0.3049		950.2055
Total	0.6403	7.8204	4.0274	9.7300e-003	0.5303	0.2995	0.8297	0.0573	0.2755	0.3328		942.5842	942.5842	0.3049		950.2055

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	0.0254	0.0157	0.2070	5.5000e-004	0.0559	3.6000e-004	0.0563	0.0148	3.3000e-004	0.0152		54.7040	54.7040	1.5600e-003		54.7430
Total	0.0254	0.0157	0.2070	5.5000e-004	0.0559	3.6000e-004	0.0563	0.0148	3.3000e-004	0.0152		54.7040	54.7040	1.5600e-003		54.7430

Colton Barton Road - Unmitigated Off-site Improvements - San Bernardino-South Coast County, Summer

3.2 Site Preparation - 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					
Fugitive Dust					0.2068	0.0000	0.2068	0.0223	0.0000	0.0223			0.0000			0.0000
Off-Road	0.6403	7.8204	4.0274	9.7300e-003		0.2995	0.2995		0.2755	0.2755	0.0000	942.5842	942.5842	0.3049		950.2055
Total	0.6403	7.8204	4.0274	9.7300e-003	0.2068	0.2995	0.5063	0.0223	0.2755	0.2978	0.0000	942.5842	942.5842	0.3049		950.2055

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	0.0254	0.0157	0.2070	5.5000e-004	0.0559	3.6000e-004	0.0563	0.0148	3.3000e-004	0.0152		54.7040	54.7040	1.5600e-003		54.7430
Total	0.0254	0.0157	0.2070	5.5000e-004	0.0559	3.6000e-004	0.0563	0.0148	3.3000e-004	0.0152		54.7040	54.7040	1.5600e-003		54.7430

Colton Barton Road - Unmitigated Off-site Improvements - San Bernardino-South Coast County, Summer

3.3 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					0.7528	0.0000	0.7528	0.4138	0.0000	0.4138			0.0000			0.0000
Off-Road	0.7965	7.2530	7.5691	0.0120		0.4073	0.4073		0.3886	0.3886		1,147.4338	1,147.4338	0.2138		1,152.7797
Total	0.7965	7.2530	7.5691	0.0120	0.7528	0.4073	1.1601	0.4138	0.3886	0.8024		1,147.4338	1,147.4338	0.2138		1,152.7797

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	0.0508	0.0314	0.4140	1.1000e-003	0.1118	7.1000e-004	0.1125	0.0296	6.6000e-004	0.0303		109.4081	109.4081	3.1100e-003		109.4859
Total	0.0508	0.0314	0.4140	1.1000e-003	0.1118	7.1000e-004	0.1125	0.0296	6.6000e-004	0.0303		109.4081	109.4081	3.1100e-003		109.4859

Colton Barton Road - Unmitigated Off-site Improvements - San Bernardino-South Coast County, Summer

3.3 Grading - 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					
Fugitive Dust					0.2936	0.0000	0.2936	0.1614	0.0000	0.1614			0.0000			0.0000
Off-Road	0.7965	7.2530	7.5691	0.0120		0.4073	0.4073		0.3886	0.3886	0.0000	1,147.4338	1,147.4338	0.2138		1,152.7797
Total	0.7965	7.2530	7.5691	0.0120	0.2936	0.4073	0.7009	0.1614	0.3886	0.5500	0.0000	1,147.4338	1,147.4338	0.2138		1,152.7797

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	0.0508	0.0314	0.4140	1.1000e-003	0.1118	7.1000e-004	0.1125	0.0296	6.6000e-004	0.0303		109.4081	109.4081	3.1100e-003		109.4859
Total	0.0508	0.0314	0.4140	1.1000e-003	0.1118	7.1000e-004	0.1125	0.0296	6.6000e-004	0.0303		109.4081	109.4081	3.1100e-003		109.4859

Colton Barton Road - Unmitigated Off-site Improvements - San Bernardino-South Coast County, Summer

3.4 Paving - 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	0.7214	6.7178	7.0899	0.0113		0.3534	0.3534		0.3286	0.3286		1,035.3425	1,035.3425	0.3016		1,042.8818
Paving	0.0423					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.7637	6.7178	7.0899	0.0113		0.3534	0.3534		0.3286	0.3286		1,035.3425	1,035.3425	0.3016		1,042.8818

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

Colton Barton Road - Unmitigated Off-site Improvements - San Bernardino-South Coast County, Summer

3.4 Paving - 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	0.7214	6.7178	7.0899	0.0113		0.3534	0.3534		0.3286	0.3286	0.0000	1,035.3425	1,035.3425	0.3016		1,042.8818
Paving	0.0423					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.7637	6.7178	7.0899	0.0113		0.3534	0.3534		0.3286	0.3286	0.0000	1,035.3425	1,035.3425	0.3016		1,042.8818

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

4.0 Operational Detail - Mobile

Colton Barton Road - Unmitigated Off-site Improvements - San Bernardino-South Coast County, Summer

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

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	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		
Total	0.00	0.00	0.00		

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	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

4.4 Fleet Mix

Colton Barton Road - Unmitigated Off-site Improvements - San Bernardino-South Coast County, Summer

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

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

Colton Barton Road - Unmitigated Off-site Improvements - San Bernardino-South Coast County, Summer

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
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

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
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**

Colton Barton Road - Unmitigated Off-site Improvements - San Bernardino-South Coast County, Summer

	ROG	NOx	CO	SO2	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	0.0166	4.0000e-005	3.8500e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		8.2400e-003	8.2400e-003	2.0000e-005		8.7900e-003
Unmitigated	0.0166	4.0000e-005	3.8500e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		8.2400e-003	8.2400e-003	2.0000e-005		8.7900e-003

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	2.8700e-003					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.0133					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	3.6000e-004	4.0000e-005	3.8500e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		8.2400e-003	8.2400e-003	2.0000e-005		8.7900e-003
Total	0.0166	4.0000e-005	3.8500e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		8.2400e-003	8.2400e-003	2.0000e-005		8.7900e-003

Colton Barton Road - Unmitigated Off-site Improvements - San Bernardino-South Coast County, Summer

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	2.8700e-003					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.0133					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	3.6000e-004	4.0000e-005	3.8500e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		8.2400e-003	8.2400e-003	2.0000e-005		8.7900e-003
Total	0.0166	4.0000e-005	3.8500e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		8.2400e-003	8.2400e-003	2.0000e-005		8.7900e-003

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**

Colton Barton Road - Unmitigated Off-site Improvements - San Bernardino-South Coast County, Summer

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

Colton Barton Road - Unmitigated Construction - San Bernardino-South Coast County, Winter

Colton Barton Road - Unmitigated Construction
San Bernardino-South Coast County, Winter

1.0 Project Characteristics**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	20.00	1000sqft	0.46	20,000.00	0
Unrefrigerated Warehouse-No Rail	940.04	1000sqft	21.58	940,040.00	0
Other Non-Asphalt Surfaces	827.87	1000sqft	19.01	827,873.00	0
Parking Lot	6.55	Acre	6.55	285,318.00	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)	598.29	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

1.3 User Entered Comments & Non-Default Data

Colton Barton Road - Unmitigated Construction - San Bernardino-South Coast County, Winter

Project Characteristics - Unmitigated Construction

Colton Electric Utility not included as option in CalEEMod - CO2 intensity updated for Colton Electric Utility and accounts for compliance with RPS

Land Use - Based on site plan, project description, and applicant-provided response to information request.

Construction Phase - Applicant-provided construction schedule, consistent with the project description

Trips and VMT -

Demolition - The total building square footage that would be demolished is 659,435 square feet. The total amount of hardscape to be demolished or removed, including asphalt concrete, concrete pavement, and concrete building slab, would be 1,603,931 square feet.

Grading - The total import volume would be 1,238 cubic yards. There would be no export volume.

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 - Compliance with SCAQMD Rule 403

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	WaterUnpavedRoadMoistureContent	0	12
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstructionPhase	NumDays	55.00	25.00
tblConstructionPhase	NumDays	740.00	125.00
tblConstructionPhase	NumDays	50.00	100.00
tblConstructionPhase	NumDays	75.00	30.00
tblConstructionPhase	NumDays	55.00	25.00
tblConstructionPhase	NumDays	30.00	20.00
tblEnergyUse	LightingElect	3.66	0.00
tblEnergyUse	LightingElect	0.35	0.00
tblEnergyUse	LightingElect	1.17	0.00
tblEnergyUse	NT24E	2.79	0.00
tblEnergyUse	NT24E	0.82	0.00

Colton Barton Road - Unmitigated Construction - San Bernardino-South Coast County, Winter

tblEnergyUse	NT24NG	0.03	0.00
tblEnergyUse	T24E	3.07	0.00
tblEnergyUse	T24E	0.37	0.00
tblEnergyUse	T24NG	3.47	0.00
tblEnergyUse	T24NG	2.00	0.00
tblGrading	MaterialImported	0.00	1,238.00
tblLandUse	LandUseSquareFeet	827,870.00	827,873.00
tblProjectCharacteristics	CO2IntensityFactor	702.44	598.29
tblSolidWaste	SolidWasteGenerationRate	18.60	0.00
tblSolidWaste	SolidWasteGenerationRate	883.64	0.00
tblVehicleTrips	ST_TR	2.46	0.00
tblVehicleTrips	ST_TR	1.68	0.00
tblVehicleTrips	SU_TR	1.05	0.00
tblVehicleTrips	SU_TR	1.68	0.00
tblVehicleTrips	WD_TR	11.03	0.00
tblVehicleTrips	WD_TR	1.68	0.00
tblWater	IndoorWaterUseRate	3,554,674.96	0.00
tblWater	IndoorWaterUseRate	217,384,250.00	0.00
tblWater	OutdoorWaterUseRate	2,178,671.75	0.00

2.0 Emissions Summary

Colton Barton Road - Unmitigated Construction - San Bernardino-South Coast County, Winter

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	7.2593	58.8124	53.2997	0.2007	28.0839	2.0458	29.7144	9.9840	1.8821	11.8661	0.0000	20,382.77 31	20,382.77 31	1.9731	0.0000	20,421.05 29
2022	369.4000	48.9269	50.1255	0.1968	11.8909	0.9179	12.8089	3.2030	0.8632	4.0662	0.0000	19,999.05 48	19,999.05 48	1.4803	0.0000	20,036.06 30
Maximum	369.4000	58.8124	53.2997	0.2007	28.0839	2.0458	29.7144	9.9840	1.8821	11.8661	0.0000	20,382.77 31	20,382.77 31	1.9731	0.0000	20,421.05 29

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	7.2593	58.8124	53.2997	0.2007	12.3290	2.0458	13.9594	3.9263	1.8821	5.8084	0.0000	20,382.77 31	20,382.77 31	1.9731	0.0000	20,421.05 28
2022	369.4000	48.9269	50.1255	0.1968	11.8909	0.9179	12.8089	3.2030	0.8632	4.0662	0.0000	19,999.05 48	19,999.05 48	1.4803	0.0000	20,036.06 30
Maximum	369.4000	58.8124	53.2997	0.2007	12.3290	2.0458	13.9594	3.9263	1.8821	5.8084	0.0000	20,382.77 31	20,382.77 31	1.9731	0.0000	20,421.05 28

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	39.41	0.00	37.05	45.94	0.00	38.02	0.00	0.00	0.00	0.00	0.00	0.00

Colton Barton Road - Unmitigated Construction - San Bernardino-South Coast County, Winter

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	21.9432	1.6800e-003	0.1835	1.0000e-005		6.6000e-004	6.6000e-004		6.6000e-004	6.6000e-004		0.3927	0.3927	1.0400e-003		0.4186
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	21.9432	1.6800e-003	0.1835	1.0000e-005	0.0000	6.6000e-004	6.6000e-004	0.0000	6.6000e-004	6.6000e-004		0.3927	0.3927	1.0400e-003	0.0000	0.4186

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	21.9432	1.6800e-003	0.1835	1.0000e-005		6.6000e-004	6.6000e-004		6.6000e-004	6.6000e-004		0.3927	0.3927	1.0400e-003		0.4186
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	21.9432	1.6800e-003	0.1835	1.0000e-005	0.0000	6.6000e-004	6.6000e-004	0.0000	6.6000e-004	6.6000e-004		0.3927	0.3927	1.0400e-003	0.0000	0.4186

Colton Barton Road - Unmitigated Construction - San Bernardino-South Coast County, Winter

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	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	2/15/2021	7/2/2021	5	100	
2	Site Preparation	Site Preparation	7/3/2021	7/30/2021	5	20	
3	Grading	Grading	7/31/2021	9/10/2021	5	30	
4	Building Construction	Building Construction	9/11/2021	3/4/2022	5	125	
5	Paving	Paving	3/5/2022	4/8/2022	5	25	
6	Architectural Coating	Architectural Coating	4/9/2022	5/13/2022	5	25	

Acres of Grading (Site Preparation Phase): 0**Acres of Grading (Grading Phase): 75****Acres of Paving: 25.56****Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 1,440,060; Non-Residential Outdoor: 480,020; Striped Parking Area: 66,791 (Architectural Coating – sqft)****OffRoad Equipment**

Colton Barton Road - Unmitigated Construction - 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	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
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	2	8.00	97	0.37
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	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	6.00	78	0.48

Trips and VMT

Colton Barton Road - Unmitigated Construction - San Bernardino-South Coast County, Winter

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	11,934.00	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	155.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	869.00	340.00	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	174.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

Water Unpaved Roads

Reduce Vehicle Speed on Unpaved Roads

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					25.8277	0.0000	25.8277	3.9106	0.0000	3.9106			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	25.8277	1.5513	27.3791	3.9106	1.4411	5.3516		3,747.9449	3,747.9449	1.0549		3,774.3174

Colton Barton Road - Unmitigated Construction - San Bernardino-South Coast County, Winter

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	0.7412	27.3222	4.8148	0.0903	2.0885	0.0781	2.1665	0.5726	0.0747	0.6473		9,589.7297	9,589.7297	0.5733		9,604.0617
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	0.8175	27.3717	5.3242	0.0918	2.2561	0.0791	2.3353	0.6171	0.0757	0.6927		9,736.9543	9,736.9543	0.5774		9,751.3888

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					10.0728	0.0000	10.0728	1.5251	0.0000	1.5251			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	10.0728	1.5513	11.6242	1.5251	1.4411	2.9662	0.0000	3,747.9449	3,747.9449	1.0549		3,774.3174

Colton Barton Road - Unmitigated Construction - San Bernardino-South Coast County, Winter

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	0.7412	27.3222	4.8148	0.0903	2.0885	0.0781	2.1665	0.5726	0.0747	0.6473		9,589.7297	9,589.7297	0.5733		9,604.0617
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	0.8175	27.3717	5.3242	0.0918	2.2561	0.0791	2.3353	0.6171	0.0757	0.6927		9,736.9543	9,736.9543	0.5774		9,751.3888

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					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	3.8882	40.4971	21.1543	0.0380		2.0445	2.0445		1.8809	1.8809		3,685.6569	3,685.6569	1.1920		3,715.4573
Total	3.8882	40.4971	21.1543	0.0380	18.0663	2.0445	20.1107	9.9307	1.8809	11.8116		3,685.6569	3,685.6569	1.1920		3,715.4573

Colton Barton Road - Unmitigated Construction - San Bernardino-South Coast County, Winter

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					7.0458	0.0000	7.0458	3.8730	0.0000	3.8730			0.0000			0.0000
Off-Road	3.8882	40.4971	21.1543	0.0380		2.0445	2.0445		1.8809	1.8809	0.0000	3,685.6569	3,685.6569	1.1920		3,715,4573
Total	3.8882	40.4971	21.1543	0.0380	7.0458	2.0445	9.0903	3.8730	1.8809	5.7539	0.0000	3,685.6569	3,685.6569	1.1920		3,715,4573

Colton Barton Road - Unmitigated Construction - San Bernardino-South Coast County, Winter

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					8.6780	0.0000	8.6780	3.5972	0.0000	3.5972			0.0000			0.0000
Off-Road	4.1912	46.3998	30.8785	0.0620		1.9853	1.9853		1.8265	1.8265		6,007.0434	6,007.0434	1.9428		6,055.6134
Total	4.1912	46.3998	30.8785	0.0620	8.6780	1.9853	10.6633	3.5972	1.8265	5.4237		6,007.0434	6,007.0434	1.9428		6,055.6134

Colton Barton Road - Unmitigated Construction - San Bernardino-South Coast County, Winter

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	0.0321	1.1829	0.2085	3.9100e-003	0.0904	3.3800e-003	0.0938	0.0248	3.2300e-003	0.0280		415.1746	415.1746	0.0248		415.7951
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	0.1339	1.2490	0.8876	5.8800e-003	0.3140	4.8100e-003	0.3188	0.0841	4.5500e-003	0.0886		611.4741	611.4741	0.0303		612.2312

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					3.3844	0.0000	3.3844	1.4029	0.0000	1.4029			0.0000			0.0000
Off-Road	4.1912	46.3998	30.8785	0.0620		1.9853	1.9853		1.8265	1.8265	0.0000	6,007.0434	6,007.0434	1.9428		6,055.6134
Total	4.1912	46.3998	30.8785	0.0620	3.3844	1.9853	5.3698	1.4029	1.8265	3.2294	0.0000	6,007.0434	6,007.0434	1.9428		6,055.6134

Colton Barton Road - Unmitigated Construction - San Bernardino-South Coast County, Winter

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	0.0321	1.1829	0.2085	3.9100e-003	0.0904	3.3800e-003	0.0938	0.0248	3.2300e-003	0.0280		415.1746	415.1746	0.0248		415.7951
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	0.1339	1.2490	0.8876	5.8800e-003	0.3140	4.8100e-003	0.3188	0.0841	4.5500e-003	0.0886		611.4741	611.4741	0.0303		612.2312

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	1.9009	17.4321	16.5752	0.0269		0.9586	0.9586		0.9013	0.9013		2,553.3639	2,553.3639	0.6160		2,568.7643
Total	1.9009	17.4321	16.5752	0.0269		0.9586	0.9586		0.9013	0.9013		2,553.3639	2,553.3639	0.6160		2,568.7643

Colton Barton Road - Unmitigated Construction - San Bernardino-South Coast County, Winter

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	0.9333	32.4397	7.2169	0.0882	2.1776	0.0578	2.2354	0.6270	0.0553	0.6823		9,300.194 4	9,300.194 4	0.6778		9,317.138 5
Worker	4.4251	2.8706	29.5076	0.0856	9.7134	0.0621	9.7755	2.5760	0.0572	2.6332		8,529.214 8	8,529.214 8	0.2374		8,535.150 1
Total	5.3584	35.3102	36.7245	0.1738	11.8910	0.1199	12.0109	3.2030	0.1125	3.3155		17,829.40 92	17,829.40 92	0.9152		17,852.28 86

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	1.9009	17.4321	16.5752	0.0269		0.9586	0.9586		0.9013	0.9013	0.0000	2,553.363 9	2,553.363 9	0.6160		2,568.764 3
Total	1.9009	17.4321	16.5752	0.0269		0.9586	0.9586		0.9013	0.9013	0.0000	2,553.363 9	2,553.363 9	0.6160		2,568.764 3

Colton Barton Road - Unmitigated Construction - San Bernardino-South Coast County, Winter

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	0.9333	32.4397	7.2169	0.0882	2.1776	0.0578	2.2354	0.6270	0.0553	0.6823		9,300.194 4	9,300.194 4	0.6778		9,317.138 5
Worker	4.4251	2.8706	29.5076	0.0856	9.7134	0.0621	9.7755	2.5760	0.0572	2.6332		8,529.214 8	8,529.214 8	0.2374		8,535.150 1
Total	5.3584	35.3102	36.7245	0.1738	11.8910	0.1199	12.0109	3.2030	0.1125	3.3155		17,829.40 92	17,829.40 92	0.9152		17,852.28 86

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	1.7062	15.6156	16.3634	0.0269		0.8090	0.8090		0.7612	0.7612		2,554.333 6	2,554.333 6	0.6120		2,569.632 2
Total	1.7062	15.6156	16.3634	0.0269		0.8090	0.8090		0.7612	0.7612		2,554.333 6	2,554.333 6	0.6120		2,569.632 2

Colton Barton Road - Unmitigated Construction - San Bernardino-South Coast County, Winter

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	0.8705	30.7314	6.6998	0.0874	2.1776	0.0486	2.2262	0.6270	0.0465	0.6735		9,222.712 6	9,222.712 6	0.6553		9,239.095 1
Worker	4.1430	2.5798	27.0623	0.0825	9.7134	0.0603	9.7737	2.5760	0.0555	2.6316		8,222.008 6	8,222.008 6	0.2131		8,227.335 7
Total	5.0135	33.3112	33.7621	0.1699	11.8909	0.1089	11.9999	3.2030	0.1020	3.3050		17,444.72 12	17,444.72 12	0.8684		17,466.43 08

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	1.7062	15.6156	16.3634	0.0269		0.8090	0.8090		0.7612	0.7612	0.0000	2,554.333 6	2,554.333 6	0.6120		2,569.632 2
Total	1.7062	15.6156	16.3634	0.0269		0.8090	0.8090		0.7612	0.7612	0.0000	2,554.333 6	2,554.333 6	0.6120		2,569.632 2

Colton Barton Road - Unmitigated Construction - San Bernardino-South Coast County, Winter

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	0.8705	30.7314	6.6998	0.0874	2.1776	0.0486	2.2262	0.6270	0.0465	0.6735		9,222.7126	9,222.7126	0.6553		9,239.0951
Worker	4.1430	2.5798	27.0623	0.0825	9.7134	0.0603	9.7737	2.5760	0.0555	2.6316		8,222.0086	8,222.0086	0.2131		8,227.3357
Total	5.0135	33.3112	33.7621	0.1699	11.8909	0.1089	11.9999	3.2030	0.1020	3.3050		17,444.7212	17,444.7212	0.8684		17,466.4308

3.6 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	0.6864					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.7893	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

Colton Barton Road - Unmitigated Construction - San Bernardino-South Coast County, Winter

3.6 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	0.6864					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.7893	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

Colton Barton Road - Unmitigated Construction - San Bernardino-South Coast County, Winter

3.6 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

3.7 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	368.3659					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2045	1.4085	1.8136	2.9700e-003		0.0817	0.0817		0.0817	0.0817		281.4481	281.4481	0.0183		281.9062
Total	368.5704	1.4085	1.8136	2.9700e-003		0.0817	0.0817		0.0817	0.0817		281.4481	281.4481	0.0183		281.9062

Colton Barton Road - Unmitigated Construction - San Bernardino-South Coast County, Winter

3.7 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	0.8296	0.5166	5.4187	0.0165	1.9449	0.0121	1.9570	0.5158	0.0111	0.5269		1,646.2940	1,646.2940	0.0427		1,647.3607
Total	0.8296	0.5166	5.4187	0.0165	1.9449	0.0121	1.9570	0.5158	0.0111	0.5269		1,646.2940	1,646.2940	0.0427		1,647.3607

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	368.3659					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2045	1.4085	1.8136	2.9700e-003		0.0817	0.0817		0.0817	0.0817	0.0000	281.4481	281.4481	0.0183		281.9062
Total	368.5704	1.4085	1.8136	2.9700e-003		0.0817	0.0817		0.0817	0.0817	0.0000	281.4481	281.4481	0.0183		281.9062

Colton Barton Road - Unmitigated Construction - San Bernardino-South Coast County, Winter

3.7 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	0.8296	0.5166	5.4187	0.0165	1.9449	0.0121	1.9570	0.5158	0.0111	0.5269		1,646.294 0	1,646.294 0	0.0427		1,647.360 7
Total	0.8296	0.5166	5.4187	0.0165	1.9449	0.0121	1.9570	0.5158	0.0111	0.5269		1,646.294 0	1,646.294 0	0.0427		1,647.360 7

4.0 Operational Detail - Mobile**4.1 Mitigation Measures Mobile**

Colton Barton Road - Unmitigated Construction - San Bernardino-South Coast County, Winter

	ROG	NOx	CO	SO2	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

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Office Building	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

Land Use	Miles			Trip %			Trip Purpose %		
	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
General Office Building	16.60	8.40	6.90	33.00	48.00	19.00	77	19	4
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	16.60	8.40	6.90	59.00	0.00	41.00	92	5	3

4.4 Fleet Mix

Colton Barton Road - Unmitigated Construction - San Bernardino-South Coast County, Winter

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
General Office Building	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

Colton Barton Road - Unmitigated Construction - San Bernardino-South Coast County, Winter

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					
General Office Building	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

Colton Barton Road - Unmitigated Construction - San Bernardino-South Coast County, Winter

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					
General Office Building	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**

Colton Barton Road - Unmitigated Construction - San Bernardino-South Coast County, Winter

	ROG	NOx	CO	SO2	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	21.9432	1.6800e-003	0.1835	1.0000e-005		6.6000e-004	6.6000e-004		6.6000e-004	6.6000e-004		0.3927	0.3927	1.0400e-003		0.4186
Unmitigated	21.9432	1.6800e-003	0.1835	1.0000e-005		6.6000e-004	6.6000e-004		6.6000e-004	6.6000e-004		0.3927	0.3927	1.0400e-003		0.4186

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	2.5231					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	19.4031					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0171	1.6800e-003	0.1835	1.0000e-005		6.6000e-004	6.6000e-004		6.6000e-004	6.6000e-004		0.3927	0.3927	1.0400e-003		0.4186
Total	21.9432	1.6800e-003	0.1835	1.0000e-005		6.6000e-004	6.6000e-004		6.6000e-004	6.6000e-004		0.3927	0.3927	1.0400e-003		0.4186

Colton Barton Road - Unmitigated Construction - San Bernardino-South Coast County, Winter

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	2.5231					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	19.4031					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0171	1.6800e-003	0.1835	1.0000e-005		6.6000e-004	6.6000e-004		6.6000e-004	6.6000e-004		0.3927	0.3927	1.0400e-003		0.4186
Total	21.9432	1.6800e-003	0.1835	1.0000e-005		6.6000e-004	6.6000e-004		6.6000e-004	6.6000e-004		0.3927	0.3927	1.0400e-003		0.4186

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**

Colton Barton Road - Unmitigated Construction - San Bernardino-South Coast County, Winter

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

Colton Barton Road - Unmitigated Off-site Improvements - San Bernardino-South Coast County, Winter

Colton Barton Road - Unmitigated Off-site Improvements

San Bernardino-South Coast County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Other Asphalt Surfaces	21.97	1000sqft	0.50	21,970.00	0
Other Non-Asphalt Surfaces	15.70	1000sqft	0.36	15,700.00	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/MW hr)	598.29	CH4 Intensity (lb/MW hr)	0.029	N2O Intensity (lb/MW hr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - Unmitigated Construction - Off-site Construction

Colton Electric Utility not included as option in CalEEMod - CO2 intensity updated for Colton Electric Utility and accounts for compliance with RPS

Land Use - Off-site asphalt paving would be 21,970 square feet; additional off-site non-asphalt paving for concrete sidewalks would be 15,700 square feet.

Construction Phase - Off-site improvements would occur concurrently with on-site improvements. Adjusted schedule based on applicant-providing total duration for off-site improvements.

Grading -

Energy Use -

Construction Off-road Equipment Mitigation - Compliance with SCAQMD Rule 403

Colton Barton Road - Unmitigated Off-site Improvements - San Bernardino-South Coast County, Winter

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	WaterUnpavedRoadMoistureContent	0	12
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstructionPhase	NumDays	2.00	13.00
tblConstructionPhase	NumDays	5.00	31.00
tblConstructionPhase	NumDays	1.00	6.00
tblProjectCharacteristics	CO2IntensityFactor	702.44	598.29

2.0 Emissions Summary

Colton Barton Road - Unmitigated Off-site Improvements - San Bernardino-South Coast County, Winter

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	0.8553	7.8369	7.9087	0.0130	0.8645	0.4081	1.2726	0.4434	0.3893	0.8327	0.0000	1,245.583 6	1,245.583 6	0.3065	0.0000	1,250.997 8
Maximum	0.8553	7.8369	7.9087	0.0130	0.8645	0.4081	1.2726	0.4434	0.3893	0.8327	0.0000	1,245.583 6	1,245.583 6	0.3065	0.0000	1,250.997 8

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	0.8553	7.8369	7.9087	0.0130	0.4054	0.4081	0.8134	0.1910	0.3893	0.5803	0.0000	1,245.583 5	1,245.583 5	0.3065	0.0000	1,250.997 8
Maximum	0.8553	7.8369	7.9087	0.0130	0.4054	0.4081	0.8134	0.1910	0.3893	0.5803	0.0000	1,245.583 5	1,245.583 5	0.3065	0.0000	1,250.997 8

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	53.11	0.00	36.08	56.92	0.00	30.31	0.00	0.00	0.00	0.00	0.00	0.00

Colton Barton Road - Unmitigated Off-site Improvements - San Bernardino-South Coast County, Winter

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	0.0166	4.0000e-005	3.8500e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		8.2400e-003	8.2400e-003	2.0000e-005		8.7900e-003
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	0.0166	4.0000e-005	3.8500e-003	0.0000	0.0000	1.0000e-005	1.0000e-005	0.0000	1.0000e-005	1.0000e-005		8.2400e-003	8.2400e-003	2.0000e-005	0.0000	8.7900e-003

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	0.0166	4.0000e-005	3.8500e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		8.2400e-003	8.2400e-003	2.0000e-005		8.7900e-003
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	0.0166	4.0000e-005	3.8500e-003	0.0000	0.0000	1.0000e-005	1.0000e-005	0.0000	1.0000e-005	1.0000e-005		8.2400e-003	8.2400e-003	2.0000e-005	0.0000	8.7900e-003

Colton Barton Road - Unmitigated Off-site Improvements - San Bernardino-South Coast County, Winter

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	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	Site Preparation	Site Preparation	9/25/2021	10/4/2021	5	6	
2	Grading	Grading	10/5/2021	10/21/2021	5	13	
3	Paving	Paving	10/22/2021	12/3/2021	5	31	

Acres of Grading (Site Preparation Phase): 3

Acres of Grading (Grading Phase): 0

Acres of Paving: 0.86

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Colton Barton Road - Unmitigated Off-site Improvements - San Bernardino-South Coast County, Winter

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Graders	1	8.00	187	0.41
Site Preparation	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Grading	Concrete/Industrial Saws	1	8.00	81	0.73
Grading	Rubber Tired Dozers	1	1.00	247	0.40
Grading	Tractors/Loaders/Backhoes	2	6.00	97	0.37
Paving	Cement and Mortar Mixers	4	6.00	9	0.56
Paving	Pavers	1	7.00	130	0.42
Paving	Rollers	1	7.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	7.00	97	0.37

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
Site Preparation	2	5.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	4	10.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	7	18.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

Water Unpaved Roads

Reduce Vehicle Speed on Unpaved Roads

Colton Barton Road - Unmitigated Off-site Improvements - San Bernardino-South Coast County, Winter

3.2 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					0.5303	0.0000	0.5303	0.0573	0.0000	0.0573			0.0000			0.0000
Off-Road	0.6403	7.8204	4.0274	9.7300e-003		0.2995	0.2995		0.2755	0.2755		942.5842	942.5842	0.3049		950.2055
Total	0.6403	7.8204	4.0274	9.7300e-003	0.5303	0.2995	0.8297	0.0573	0.2755	0.3328		942.5842	942.5842	0.3049		950.2055

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	0.0255	0.0165	0.1698	4.9000e-004	0.0559	3.6000e-004	0.0563	0.0148	3.3000e-004	0.0152		49.0749	49.0749	1.3700e-003		49.1090
Total	0.0255	0.0165	0.1698	4.9000e-004	0.0559	3.6000e-004	0.0563	0.0148	3.3000e-004	0.0152		49.0749	49.0749	1.3700e-003		49.1090

Colton Barton Road - Unmitigated Off-site Improvements - San Bernardino-South Coast County, Winter

3.2 Site Preparation - 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					
Fugitive Dust					0.2068	0.0000	0.2068	0.0223	0.0000	0.0223			0.0000			0.0000
Off-Road	0.6403	7.8204	4.0274	9.7300e-003		0.2995	0.2995		0.2755	0.2755	0.0000	942.5842	942.5842	0.3049		950.2055
Total	0.6403	7.8204	4.0274	9.7300e-003	0.2068	0.2995	0.5063	0.0223	0.2755	0.2978	0.0000	942.5842	942.5842	0.3049		950.2055

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	0.0255	0.0165	0.1698	4.9000e-004	0.0559	3.6000e-004	0.0563	0.0148	3.3000e-004	0.0152		49.0749	49.0749	1.3700e-003		49.1090
Total	0.0255	0.0165	0.1698	4.9000e-004	0.0559	3.6000e-004	0.0563	0.0148	3.3000e-004	0.0152		49.0749	49.0749	1.3700e-003		49.1090

Colton Barton Road - Unmitigated Off-site Improvements - San Bernardino-South Coast County, Winter

3.3 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					0.7528	0.0000	0.7528	0.4138	0.0000	0.4138			0.0000			0.0000
Off-Road	0.7965	7.2530	7.5691	0.0120		0.4073	0.4073		0.3886	0.3886		1,147.4338	1,147.4338	0.2138		1,152.7797
Total	0.7965	7.2530	7.5691	0.0120	0.7528	0.4073	1.1601	0.4138	0.3886	0.8024		1,147.4338	1,147.4338	0.2138		1,152.7797

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	0.0509	0.0330	0.3396	9.9000e-004	0.1118	7.1000e-004	0.1125	0.0296	6.6000e-004	0.0303		98.1498	98.1498	2.7300e-003		98.2181
Total	0.0509	0.0330	0.3396	9.9000e-004	0.1118	7.1000e-004	0.1125	0.0296	6.6000e-004	0.0303		98.1498	98.1498	2.7300e-003		98.2181

Colton Barton Road - Unmitigated Off-site Improvements - San Bernardino-South Coast County, Winter

3.3 Grading - 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					
Fugitive Dust					0.2936	0.0000	0.2936	0.1614	0.0000	0.1614			0.0000			0.0000
Off-Road	0.7965	7.2530	7.5691	0.0120		0.4073	0.4073		0.3886	0.3886	0.0000	1,147.4338	1,147.4338	0.2138		1,152.7797
Total	0.7965	7.2530	7.5691	0.0120	0.2936	0.4073	0.7009	0.1614	0.3886	0.5500	0.0000	1,147.4338	1,147.4338	0.2138		1,152.7797

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	0.0509	0.0330	0.3396	9.9000e-004	0.1118	7.1000e-004	0.1125	0.0296	6.6000e-004	0.0303		98.1498	98.1498	2.7300e-003		98.2181
Total	0.0509	0.0330	0.3396	9.9000e-004	0.1118	7.1000e-004	0.1125	0.0296	6.6000e-004	0.0303		98.1498	98.1498	2.7300e-003		98.2181

Colton Barton Road - Unmitigated Off-site Improvements - San Bernardino-South Coast County, Winter

3.4 Paving - 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	0.7214	6.7178	7.0899	0.0113		0.3534	0.3534		0.3286	0.3286		1,035.3425	1,035.3425	0.3016		1,042.8818
Paving	0.0423					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.7637	6.7178	7.0899	0.0113		0.3534	0.3534		0.3286	0.3286		1,035.3425	1,035.3425	0.3016		1,042.8818

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

Colton Barton Road - Unmitigated Off-site Improvements - San Bernardino-South Coast County, Winter

3.4 Paving - 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	0.7214	6.7178	7.0899	0.0113		0.3534	0.3534		0.3286	0.3286	0.0000	1,035.3425	1,035.3425	0.3016		1,042.8818
Paving	0.0423					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.7637	6.7178	7.0899	0.0113		0.3534	0.3534		0.3286	0.3286	0.0000	1,035.3425	1,035.3425	0.3016		1,042.8818

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

4.0 Operational Detail - Mobile

Colton Barton Road - Unmitigated Off-site Improvements - San Bernardino-South Coast County, Winter

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

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	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		
Total	0.00	0.00	0.00		

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	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

4.4 Fleet Mix

Colton Barton Road - Unmitigated Off-site Improvements - San Bernardino-South Coast County, Winter

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

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

Colton Barton Road - Unmitigated Off-site Improvements - San Bernardino-South Coast County, Winter

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
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

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
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**

Colton Barton Road - Unmitigated Off-site Improvements - San Bernardino-South Coast County, Winter

	ROG	NOx	CO	SO2	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	0.0166	4.0000e-005	3.8500e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		8.2400e-003	8.2400e-003	2.0000e-005		8.7900e-003
Unmitigated	0.0166	4.0000e-005	3.8500e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		8.2400e-003	8.2400e-003	2.0000e-005		8.7900e-003

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	2.8700e-003					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.0133					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	3.6000e-004	4.0000e-005	3.8500e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		8.2400e-003	8.2400e-003	2.0000e-005		8.7900e-003
Total	0.0166	4.0000e-005	3.8500e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		8.2400e-003	8.2400e-003	2.0000e-005		8.7900e-003

Colton Barton Road - Unmitigated Off-site Improvements - San Bernardino-South Coast County, Winter

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	2.8700e-003					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.0133					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	3.6000e-004	4.0000e-005	3.8500e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		8.2400e-003	8.2400e-003	2.0000e-005		8.7900e-003
Total	0.0166	4.0000e-005	3.8500e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		8.2400e-003	8.2400e-003	2.0000e-005		8.7900e-003

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**

Colton Barton Road - Unmitigated Off-site Improvements - San Bernardino-South Coast County, Winter

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

Colton Barton Road - Mitigated Construction - San Bernardino-South Coast County, Annual

Colton Barton Road - Mitigated Construction
San Bernardino-South Coast County, Annual

1.0 Project Characteristics**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	20.00	1000sqft	0.46	20,000.00	0
Unrefrigerated Warehouse-No Rail	940.04	1000sqft	21.58	940,040.00	0
Other Non-Asphalt Surfaces	827.87	1000sqft	19.01	827,873.00	0
Parking Lot	6.55	Acre	6.55	285,318.00	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)	598.29	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

1.3 User Entered Comments & Non-Default Data

Colton Barton Road - Mitigated Construction - San Bernardino-South Coast County, Annual

Project Characteristics - Mitigated Construction

Colton Electric Utility not included as option in CalEEMod - CO2 intensity updated for Colton Electric Utility and accounts for compliance with RPS

Land Use - Based on site plan, project description, and applicant-provided response to information request.

Construction Phase - Applicant-provided construction schedule, consistent with the project description

Trips and VMT -

Demolition - The total building square footage that would be demolished is 659,435 square feet. The total amount of hardscape to be demolished or removed, including asphalt concrete, concrete pavement, and concrete building slab, would be 1,603,931 square feet.

Grading - The total import volume would be 1,238 cubic yards. There would be no export volume.

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 - Compliance with SCAQMD Rule 403

Architectural Coating - Use architectural coatings volatile organic compound ROC/VOC with 10 grams per liter or less during construction

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	100.00	10.00
tblArchitecturalCoating	EF_Nonresidential_Interior	100.00	10.00
tblConstDustMitigation	WaterUnpavedRoadMoistureContent	0	12
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstructionPhase	NumDays	50.00	100.00
tblConstructionPhase	NumDays	30.00	20.00
tblConstructionPhase	NumDays	75.00	30.00
tblConstructionPhase	NumDays	740.00	125.00
tblConstructionPhase	NumDays	55.00	25.00
tblConstructionPhase	NumDays	55.00	25.00
tblEnergyUse	LightingElect	3.66	0.00
tblEnergyUse	LightingElect	0.35	0.00

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tblEnergyUse	LightingElect	1.17	0.00
tblEnergyUse	NT24E	2.79	0.00
tblEnergyUse	NT24E	0.82	0.00
tblEnergyUse	NT24NG	0.03	0.00
tblEnergyUse	T24E	3.07	0.00
tblEnergyUse	T24E	0.37	0.00
tblEnergyUse	T24NG	3.47	0.00
tblEnergyUse	T24NG	2.00	0.00
tblGrading	MaterialImported	0.00	1,238.00
tblLandUse	LandUseSquareFeet	827,870.00	827,873.00
tblProjectCharacteristics	CO2IntensityFactor	702.44	598.29
tblSolidWaste	SolidWasteGenerationRate	18.60	0.00
tblSolidWaste	SolidWasteGenerationRate	883.64	0.00
tblVehicleTrips	ST_TR	2.46	0.00
tblVehicleTrips	ST_TR	1.68	0.00
tblVehicleTrips	SU_TR	1.05	0.00
tblVehicleTrips	SU_TR	1.68	0.00
tblVehicleTrips	WD_TR	11.03	0.00
tblVehicleTrips	WD_TR	1.68	0.00
tblWater	IndoorWaterUseRate	3,554,674.96	0.00
tblWater	IndoorWaterUseRate	217,384,250.00	0.00
tblWater	OutdoorWaterUseRate	2,178,671.75	0.00

2.0 Emissions Summary

Colton Barton Road - Mitigated Construction - San Bernardino-South Coast County, Annual

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	0.5744	6.2302	4.1945	0.0162	2.1866	0.1749	2.3615	0.5069	0.1626	0.6695	0.0000	1,498.210 7	1,498.210 7	0.1651	0.0000	1,502.337 3
2022	0.7763	1.2814	1.4294	5.0700e-003	0.2885	0.0289	0.3174	0.0777	0.0271	0.1049	0.0000	465.2830	465.2830	0.0384	0.0000	466.2441
Maximum	0.7763	6.2302	4.1945	0.0162	2.1866	0.1749	2.3615	0.5069	0.1626	0.6695	0.0000	1,498.210 7	1,498.210 7	0.1651	0.0000	1,502.337 3

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	0.5744	6.2302	4.1945	0.0162	1.2093	0.1749	1.3842	0.2942	0.1626	0.4568	0.0000	1,498.210 2	1,498.210 2	0.1651	0.0000	1,502.336 8
2022	0.7763	1.2814	1.4294	5.0700e-003	0.2885	0.0289	0.3174	0.0777	0.0271	0.1049	0.0000	465.2829	465.2829	0.0384	0.0000	466.2440
Maximum	0.7763	6.2302	4.1945	0.0162	1.2093	0.1749	1.3842	0.2942	0.1626	0.4568	0.0000	1,498.210 2	1,498.210 2	0.1651	0.0000	1,502.336 8

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	39.49	0.00	36.48	36.39	0.00	27.48	0.00	0.00	0.00	0.00	0.00	0.00

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Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	2-15-2021	5-14-2021	1.9938	1.9938
2	5-15-2021	8-14-2021	1.8202	1.8202
3	8-15-2021	11-14-2021	1.8950	1.8950
4	11-15-2021	2-14-2022	1.9015	1.9015
5	2-15-2022	5-14-2022	1.1570	1.1570
		Highest	1.9938	1.9938

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	4.0037	2.1000e-004	0.0229	0.0000		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005	0.0000	0.0445	0.0445	1.2000e-004	0.0000	0.0475
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	4.0037	2.1000e-004	0.0229	0.0000	0.0000	8.0000e-005	8.0000e-005	0.0000	8.0000e-005	8.0000e-005	0.0000	0.0445	0.0445	1.2000e-004	0.0000	0.0475

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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	4.0037	2.1000e-004	0.0229	0.0000		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005	0.0000	0.0445	0.0445	1.2000e-004	0.0000	0.0475
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	4.0037	2.1000e-004	0.0229	0.0000	0.0000	8.0000e-005	8.0000e-005	0.0000	8.0000e-005	8.0000e-005	0.0000	0.0445	0.0445	1.2000e-004	0.0000	0.0475

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	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**

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Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	2/15/2021	7/2/2021	5	100	
2	Site Preparation	Site Preparation	7/3/2021	7/30/2021	5	20	
3	Grading	Grading	7/31/2021	9/10/2021	5	30	
4	Building Construction	Building Construction	9/11/2021	3/4/2022	5	125	
5	Paving	Paving	3/5/2022	4/8/2022	5	25	
6	Architectural Coating	Architectural Coating	4/9/2022	5/13/2022	5	25	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 75

Acres of Paving: 25.56

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 1,440,060; Non-Residential Outdoor: 480,020; Striped Parking Area: 66,791 (Architectural Coating – sqft)

OffRoad Equipment

Colton Barton Road - Mitigated Construction - 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	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
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	2	8.00	97	0.37
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	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	6.00	78	0.48

Trips and VMT

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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	11,934.00	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	155.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	869.00	340.00	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	174.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

Water Unpaved Roads

Reduce Vehicle Speed on Unpaved Roads

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					1.2914	0.0000	1.2914	0.1955	0.0000	0.1955	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1583	1.5720	1.0783	1.9400e-003		0.0776	0.0776		0.0721	0.0721	0.0000	170.0039	170.0039	0.0479	0.0000	171.2002
Total	0.1583	1.5720	1.0783	1.9400e-003	1.2914	0.0776	1.3690	0.1955	0.0721	0.2676	0.0000	170.0039	170.0039	0.0479	0.0000	171.2002

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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	0.0361	1.3935	0.2240	4.5900e-003	0.1027	3.8700e-003	0.1066	0.0282	3.7000e-003	0.0319	0.0000	441.7726	441.7726	0.0249	0.0000	442.3939
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	3.4500e-003	2.6100e-003	0.0267	8.0000e-005	8.2200e-003	5.0000e-005	8.2800e-003	2.1800e-003	5.0000e-005	2.2300e-003	0.0000	6.8243	6.8243	1.9000e-004	0.0000	6.8290
Total	0.0396	1.3961	0.2507	4.6700e-003	0.1109	3.9200e-003	0.1149	0.0304	3.7500e-003	0.0341	0.0000	448.5968	448.5968	0.0250	0.0000	449.2229

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					0.5036	0.0000	0.5036	0.0763	0.0000	0.0763	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1583	1.5720	1.0783	1.9400e-003		0.0776	0.0776		0.0721	0.0721	0.0000	170.0037	170.0037	0.0479	0.0000	171.2000
Total	0.1583	1.5720	1.0783	1.9400e-003	0.5036	0.0776	0.5812	0.0763	0.0721	0.1483	0.0000	170.0037	170.0037	0.0479	0.0000	171.2000

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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	0.0361	1.3935	0.2240	4.5900e-003	0.1027	3.8700e-003	0.1066	0.0282	3.7000e-003	0.0319	0.0000	441.7726	441.7726	0.0249	0.0000	442.3939
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	3.4500e-003	2.6100e-003	0.0267	8.0000e-005	8.2200e-003	5.0000e-005	8.2800e-003	2.1800e-003	5.0000e-005	2.2300e-003	0.0000	6.8243	6.8243	1.9000e-004	0.0000	6.8290
Total	0.0396	1.3961	0.2507	4.6700e-003	0.1109	3.9200e-003	0.1149	0.0304	3.7500e-003	0.0341	0.0000	448.5968	448.5968	0.0250	0.0000	449.2229

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					0.1807	0.0000	0.1807	0.0993	0.0000	0.0993	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0389	0.4050	0.2115	3.8000e-004		0.0204	0.0204		0.0188	0.0188	0.0000	33.4357	33.4357	0.0108	0.0000	33.7061
Total	0.0389	0.4050	0.2115	3.8000e-004	0.1807	0.0204	0.2011	0.0993	0.0188	0.1181	0.0000	33.4357	33.4357	0.0108	0.0000	33.7061

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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					0.0705	0.0000	0.0705	0.0387	0.0000	0.0387	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0389	0.4050	0.2115	3.8000e-004		0.0204	0.0204		0.0188	0.0188	0.0000	33.4357	33.4357	0.0108	0.0000	33.7060
Total	0.0389	0.4050	0.2115	3.8000e-004	0.0705	0.0204	0.0909	0.0387	0.0188	0.0575	0.0000	33.4357	33.4357	0.0108	0.0000	33.7060

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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					0.1302	0.0000	0.1302	0.0540	0.0000	0.0540	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0629	0.6960	0.4632	9.3000e-004		0.0298	0.0298		0.0274	0.0274	0.0000	81.7425	81.7425	0.0264	0.0000	82.4034
Total	0.0629	0.6960	0.4632	9.3000e-004	0.1302	0.0298	0.1600	0.0540	0.0274	0.0814	0.0000	81.7425	81.7425	0.0264	0.0000	82.4034

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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	4.7000e-004	0.0181	2.9100e-003	6.0000e-005	1.3300e-003	5.0000e-005	1.3800e-003	3.7000e-004	5.0000e-005	4.1000e-004	0.0000	5.7378	5.7378	3.2000e-004	0.0000	5.7459
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	1.3800e-003	1.0400e-003	0.0107	3.0000e-005	3.2900e-003	2.0000e-005	3.3100e-003	8.7000e-004	2.0000e-005	8.9000e-004	0.0000	2.7297	2.7297	8.0000e-005	0.0000	2.7316
Total	1.8500e-003	0.0191	0.0136	9.0000e-005	4.6200e-003	7.0000e-005	4.6900e-003	1.2400e-003	7.0000e-005	1.3000e-003	0.0000	8.4675	8.4675	4.0000e-004	0.0000	8.4775

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					0.0508	0.0000	0.0508	0.0210	0.0000	0.0210	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0629	0.6960	0.4632	9.3000e-004		0.0298	0.0298		0.0274	0.0274	0.0000	81.7424	81.7424	0.0264	0.0000	82.4033
Total	0.0629	0.6960	0.4632	9.3000e-004	0.0508	0.0298	0.0806	0.0210	0.0274	0.0484	0.0000	81.7424	81.7424	0.0264	0.0000	82.4033

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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	4.7000e-004	0.0181	2.9100e-003	6.0000e-005	1.3300e-003	5.0000e-005	1.3800e-003	3.7000e-004	5.0000e-005	4.1000e-004	0.0000	5.7378	5.7378	3.2000e-004	0.0000	5.7459
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	1.3800e-003	1.0400e-003	0.0107	3.0000e-005	3.2900e-003	2.0000e-005	3.3100e-003	8.7000e-004	2.0000e-005	8.9000e-004	0.0000	2.7297	2.7297	8.0000e-005	0.0000	2.7316
Total	1.8500e-003	0.0191	0.0136	9.0000e-005	4.6200e-003	7.0000e-005	4.6900e-003	1.2400e-003	7.0000e-005	1.3000e-003	0.0000	8.4675	8.4675	4.0000e-004	0.0000	8.4775

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	0.0760	0.6973	0.6630	1.0800e-003		0.0383	0.0383		0.0361	0.0361	0.0000	92.6549	92.6549	0.0224	0.0000	93.2138
Total	0.0760	0.6973	0.6630	1.0800e-003		0.0383	0.0383		0.0361	0.0361	0.0000	92.6549	92.6549	0.0224	0.0000	93.2138

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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	0.0361	1.3231	0.2692	3.6100e-003	0.0857	2.2800e-003	0.0880	0.0248	2.1800e-003	0.0269	0.0000	345.3901	345.3901	0.0233	0.0000	345.9719
Worker	0.1600	0.1210	1.2385	3.5000e-003	0.3811	2.4900e-003	0.3836	0.1012	2.2900e-003	0.1035	0.0000	316.2814	316.2814	8.8500e-003	0.0000	316.5027
Total	0.1961	1.4441	1.5077	7.1100e-003	0.4669	4.7700e-003	0.4716	0.1260	4.4700e-003	0.1304	0.0000	661.6715	661.6715	0.0321	0.0000	662.4746

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	0.0760	0.6973	0.6630	1.0800e-003		0.0383	0.0383		0.0361	0.0361	0.0000	92.6548	92.6548	0.0224	0.0000	93.2136
Total	0.0760	0.6973	0.6630	1.0800e-003		0.0383	0.0383		0.0361	0.0361	0.0000	92.6548	92.6548	0.0224	0.0000	93.2136

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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	0.0361	1.3231	0.2692	3.6100e-003	0.0857	2.2800e-003	0.0880	0.0248	2.1800e-003	0.0269	0.0000	345.3901	345.3901	0.0233	0.0000	345.9719
Worker	0.1600	0.1210	1.2385	3.5000e-003	0.3811	2.4900e-003	0.3836	0.1012	2.2900e-003	0.1035	0.0000	316.2814	316.2814	8.8500e-003	0.0000	316.5027
Total	0.1961	1.4441	1.5077	7.1100e-003	0.4669	4.7700e-003	0.4716	0.1260	4.4700e-003	0.1304	0.0000	661.6715	661.6715	0.0321	0.0000	662.4746

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	0.0384	0.3514	0.3682	6.1000e-004		0.0182	0.0182		0.0171	0.0171	0.0000	52.1382	52.1382	0.0125	0.0000	52.4505
Total	0.0384	0.3514	0.3682	6.1000e-004		0.0182	0.0182		0.0171	0.0171	0.0000	52.1382	52.1382	0.0125	0.0000	52.4505

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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	0.0189	0.7049	0.1402	2.0100e-003	0.0482	1.0800e-003	0.0493	0.0139	1.0300e-003	0.0150	0.0000	192.6992	192.6992	0.0126	0.0000	193.0153
Worker	0.0842	0.0612	0.6389	1.9000e-003	0.2144	1.3600e-003	0.2157	0.0569	1.2500e-003	0.0582	0.0000	171.4977	171.4977	4.4700e-003	0.0000	171.6094
Total	0.1031	0.7660	0.7791	3.9100e-003	0.2626	2.4400e-003	0.2651	0.0709	2.2800e-003	0.0731	0.0000	364.1970	364.1970	0.0171	0.0000	364.6247

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	0.0384	0.3514	0.3682	6.1000e-004		0.0182	0.0182		0.0171	0.0171	0.0000	52.1381	52.1381	0.0125	0.0000	52.4504
Total	0.0384	0.3514	0.3682	6.1000e-004		0.0182	0.0182		0.0171	0.0171	0.0000	52.1381	52.1381	0.0125	0.0000	52.4504

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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	0.0189	0.7049	0.1402	2.0100e-003	0.0482	1.0800e-003	0.0493	0.0139	1.0300e-003	0.0150	0.0000	192.6992	192.6992	0.0126	0.0000	193.0153
Worker	0.0842	0.0612	0.6389	1.9000e-003	0.2144	1.3600e-003	0.2157	0.0569	1.2500e-003	0.0582	0.0000	171.4977	171.4977	4.4700e-003	0.0000	171.6094
Total	0.1031	0.7660	0.7791	3.9100e-003	0.2626	2.4400e-003	0.2651	0.0709	2.2800e-003	0.0731	0.0000	364.1970	364.1970	0.0171	0.0000	364.6247

3.6 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	0.0138	0.1391	0.1823	2.9000e-004		7.1000e-003	7.1000e-003		6.5300e-003	6.5300e-003	0.0000	25.0345	25.0345	8.1000e-003	0.0000	25.2369
Paving	8.5800e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0224	0.1391	0.1823	2.9000e-004		7.1000e-003	7.1000e-003		6.5300e-003	6.5300e-003	0.0000	25.0345	25.0345	8.1000e-003	0.0000	25.2369

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3.6 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	8.1000e-004	5.9000e-004	6.1300e-003	2.0000e-005	2.0600e-003	1.0000e-005	2.0700e-003	5.5000e-004	1.0000e-005	5.6000e-004	0.0000	1.6446	1.6446	4.0000e-005	0.0000	1.6457
Total	8.1000e-004	5.9000e-004	6.1300e-003	2.0000e-005	2.0600e-003	1.0000e-005	2.0700e-003	5.5000e-004	1.0000e-005	5.6000e-004	0.0000	1.6446	1.6446	4.0000e-005	0.0000	1.6457

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	0.0138	0.1391	0.1823	2.9000e-004		7.1000e-003	7.1000e-003		6.5300e-003	6.5300e-003	0.0000	25.0344	25.0344	8.1000e-003	0.0000	25.2368
Paving	8.5800e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0224	0.1391	0.1823	2.9000e-004		7.1000e-003	7.1000e-003		6.5300e-003	6.5300e-003	0.0000	25.0344	25.0344	8.1000e-003	0.0000	25.2368

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3.6 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	8.1000e-004	5.9000e-004	6.1300e-003	2.0000e-005	2.0600e-003	1.0000e-005	2.0700e-003	5.5000e-004	1.0000e-005	5.6000e-004	0.0000	1.6446	1.6446	4.0000e-005	0.0000	1.6457
Total	8.1000e-004	5.9000e-004	6.1300e-003	2.0000e-005	2.0600e-003	1.0000e-005	2.0700e-003	5.5000e-004	1.0000e-005	5.6000e-004	0.0000	1.6446	1.6446	4.0000e-005	0.0000	1.6457

3.7 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	0.5998					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.5600e-003	0.0176	0.0227	4.0000e-005		1.0200e-003	1.0200e-003		1.0200e-003	1.0200e-003	0.0000	3.1916	3.1916	2.1000e-004	0.0000	3.1968
Total	0.6023	0.0176	0.0227	4.0000e-005		1.0200e-003	1.0200e-003		1.0200e-003	1.0200e-003	0.0000	3.1916	3.1916	2.1000e-004	0.0000	3.1968

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3.7 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	9.3600e-003	6.8000e-003	0.0711	2.1000e-004	0.0239	1.5000e-004	0.0240	6.3300e-003	1.4000e-004	6.4700e-003	0.0000	19.0772	19.0772	5.0000e-004	0.0000	19.0897
Total	9.3600e-003	6.8000e-003	0.0711	2.1000e-004	0.0239	1.5000e-004	0.0240	6.3300e-003	1.4000e-004	6.4700e-003	0.0000	19.0772	19.0772	5.0000e-004	0.0000	19.0897

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	0.5998					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.5600e-003	0.0176	0.0227	4.0000e-005		1.0200e-003	1.0200e-003		1.0200e-003	1.0200e-003	0.0000	3.1916	3.1916	2.1000e-004	0.0000	3.1968
Total	0.6023	0.0176	0.0227	4.0000e-005		1.0200e-003	1.0200e-003		1.0200e-003	1.0200e-003	0.0000	3.1916	3.1916	2.1000e-004	0.0000	3.1968

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3.7 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	9.3600e-003	6.8000e-003	0.0711	2.1000e-004	0.0239	1.5000e-004	0.0240	6.3300e-003	1.4000e-004	6.4700e-003	0.0000	19.0772	19.0772	5.0000e-004	0.0000	19.0897
Total	9.3600e-003	6.8000e-003	0.0711	2.1000e-004	0.0239	1.5000e-004	0.0240	6.3300e-003	1.4000e-004	6.4700e-003	0.0000	19.0772	19.0772	5.0000e-004	0.0000	19.0897

4.0 Operational Detail - Mobile**4.1 Mitigation Measures Mobile**

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	ROG	NOx	CO	SO2	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

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Office Building	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

Land Use	Miles			Trip %			Trip Purpose %		
	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
General Office Building	16.60	8.40	6.90	33.00	48.00	19.00	77	19	4
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	16.60	8.40	6.90	59.00	0.00	41.00	92	5	3

4.4 Fleet Mix

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Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
General Office Building	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
Natural Gas 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
Natural Gas 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

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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					
General Office Building	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

Colton Barton Road - Mitigated Construction - San Bernardino-South Coast County, Annual

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					
General Office Building	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

Colton Barton Road - Mitigated Construction - San Bernardino-South Coast County, Annual

5.3 Energy by Land Use - Electricity**Unmitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
General Office Building	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

Colton Barton Road - Mitigated Construction - San Bernardino-South Coast County, Annual

5.3 Energy by Land Use - Electricity**Mitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
General Office Building	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**

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	ROG	NOx	CO	SO2	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	4.0037	2.1000e-004	0.0229	0.0000		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005	0.0000	0.0445	0.0445	1.2000e-004	0.0000	0.0475
Unmitigated	4.0037	2.1000e-004	0.0229	0.0000		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005	0.0000	0.0445	0.0445	1.2000e-004	0.0000	0.0475

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	0.4605					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	3.5411					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	2.1300e-003	2.1000e-004	0.0229	0.0000		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005	0.0000	0.0445	0.0445	1.2000e-004	0.0000	0.0475
Total	4.0037	2.1000e-004	0.0229	0.0000		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005	0.0000	0.0445	0.0445	1.2000e-004	0.0000	0.0475

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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	0.4605					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	3.5411					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	2.1300e-003	2.1000e-004	0.0229	0.0000		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005	0.0000	0.0445	0.0445	1.2000e-004	0.0000	0.0475
Total	4.0037	2.1000e-004	0.0229	0.0000		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005	0.0000	0.0445	0.0445	1.2000e-004	0.0000	0.0475

7.0 Water Detail**7.1 Mitigation Measures Water**

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	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			
General Office Building	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

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7.2 Water by Land Use**Mitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
General Office Building	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**

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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			
General Office Building	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

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8.2 Waste by Land Use**Mitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
General Office Building	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

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Equipment Type	Number

11.0 Vegetation

Colton Barton Road - Mitigated Construction - San Bernardino-South Coast County, Summer

Colton Barton Road - Mitigated Construction

San Bernardino-South Coast County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	20.00	1000sqft	0.46	20,000.00	0
Unrefrigerated Warehouse-No Rail	940.04	1000sqft	21.58	940,040.00	0
Other Non-Asphalt Surfaces	827.87	1000sqft	19.01	827,873.00	0
Parking Lot	6.55	Acre	6.55	285,318.00	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)	598.29	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

1.3 User Entered Comments & Non-Default Data

Colton Barton Road - Mitigated Construction - San Bernardino-South Coast County, Summer

Project Characteristics - Mitigated Construction

Colton Electric Utility not included as option in CalEEMod - CO2 intensity updated for Colton Electric Utility and accounts for compliance with RPS

Land Use - Based on site plan, project description, and applicant-provided response to information request.

Construction Phase - Applicant-provided construction schedule, consistent with the project description

Trips and VMT -

Demolition - The total building square footage that would be demolished is 659,435 square feet. The total amount of hardscape to be demolished or removed, including asphalt concrete, concrete pavement, and concrete building slab, would be 1,603,931 square feet.

Grading - The total import volume would be 1,238 cubic yards. There would be no export volume.

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 - Compliance with SCAQMD Rule 403

Architectural Coating - Use architectural coatings volatile organic compound ROC/VOC with 10 grams per liter or less during construction

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	100.00	10.00
tblArchitecturalCoating	EF_Nonresidential_Interior	100.00	10.00
tblConstDustMitigation	WaterUnpavedRoadMoistureContent	0	12
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstructionPhase	NumDays	55.00	25.00
tblConstructionPhase	NumDays	740.00	125.00
tblConstructionPhase	NumDays	50.00	100.00
tblConstructionPhase	NumDays	75.00	30.00
tblConstructionPhase	NumDays	55.00	25.00
tblConstructionPhase	NumDays	30.00	20.00
tblEnergyUse	LightingElect	3.66	0.00
tblEnergyUse	LightingElect	0.35	0.00

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tblEnergyUse	LightingElect	1.17	0.00
tblEnergyUse	NT24E	2.79	0.00
tblEnergyUse	NT24E	0.82	0.00
tblEnergyUse	NT24NG	0.03	0.00
tblEnergyUse	T24E	3.07	0.00
tblEnergyUse	T24E	0.37	0.00
tblEnergyUse	T24NG	3.47	0.00
tblEnergyUse	T24NG	2.00	0.00
tblGrading	MaterialImported	0.00	1,238.00
tblLandUse	LandUseSquareFeet	827,870.00	827,873.00
tblProjectCharacteristics	CO2IntensityFactor	702.44	598.29
tblSolidWaste	SolidWasteGenerationRate	18.60	0.00
tblSolidWaste	SolidWasteGenerationRate	883.64	0.00
tblVehicleTrips	ST_TR	2.46	0.00
tblVehicleTrips	ST_TR	1.68	0.00
tblVehicleTrips	SU_TR	1.05	0.00
tblVehicleTrips	SU_TR	1.68	0.00
tblVehicleTrips	WD_TR	11.03	0.00
tblVehicleTrips	WD_TR	1.68	0.00
tblWater	IndoorWaterUseRate	3,554,674.96	0.00
tblWater	IndoorWaterUseRate	217,384,250.00	0.00
tblWater	OutdoorWaterUseRate	2,178,671.75	0.00

2.0 Emissions Summary

Colton Barton Road - Mitigated Construction - San Bernardino-South Coast County, Summer

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	7.1961	58.7076	58.7201	0.2141	28.0839	2.0458	29.7133	9.9840	1.8821	11.8661	0.0000	21,736.9601	21,736.9601	1.9719	0.0000	21,774.4124
2022	49.0115	49.1666	55.1162	0.2099	11.8909	0.9166	12.8075	3.2030	0.8618	4.0649	0.0000	21,317.2864	21,317.2864	1.4450	0.0000	21,353.4109
Maximum	49.0115	58.7076	58.7201	0.2141	28.0839	2.0458	29.7133	9.9840	1.8821	11.8661	0.0000	21,736.9601	21,736.9601	1.9719	0.0000	21,774.4124

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	7.1961	58.7076	58.7201	0.2141	12.3290	2.0458	13.9584	3.9263	1.8821	5.8084	0.0000	21,736.9601	21,736.9601	1.9719	0.0000	21,774.4124
2022	49.0115	49.1666	55.1162	0.2099	11.8909	0.9166	12.8075	3.2030	0.8618	4.0649	0.0000	21,317.2864	21,317.2864	1.4450	0.0000	21,353.4109
Maximum	49.0115	58.7076	58.7201	0.2141	12.3290	2.0458	13.9584	3.9263	1.8821	5.8084	0.0000	21,736.9601	21,736.9601	1.9719	0.0000	21,774.4124

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	39.41	0.00	37.05	45.94	0.00	38.02	0.00	0.00	0.00	0.00	0.00	0.00

Colton Barton Road - Mitigated Construction - San Bernardino-South Coast County, Summer

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	21.9432	1.6800e-003	0.1835	1.0000e-005		6.6000e-004	6.6000e-004		6.6000e-004	6.6000e-004		0.3927	0.3927	1.0400e-003		0.4186
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	21.9432	1.6800e-003	0.1835	1.0000e-005	0.0000	6.6000e-004	6.6000e-004	0.0000	6.6000e-004	6.6000e-004		0.3927	0.3927	1.0400e-003	0.0000	0.4186

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	21.9432	1.6800e-003	0.1835	1.0000e-005		6.6000e-004	6.6000e-004		6.6000e-004	6.6000e-004		0.3927	0.3927	1.0400e-003		0.4186
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	21.9432	1.6800e-003	0.1835	1.0000e-005	0.0000	6.6000e-004	6.6000e-004	0.0000	6.6000e-004	6.6000e-004		0.3927	0.3927	1.0400e-003	0.0000	0.4186

Colton Barton Road - Mitigated Construction - San Bernardino-South Coast County, Summer

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	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	2/15/2021	7/2/2021	5	100	
2	Site Preparation	Site Preparation	7/3/2021	7/30/2021	5	20	
3	Grading	Grading	7/31/2021	9/10/2021	5	30	
4	Building Construction	Building Construction	9/11/2021	3/4/2022	5	125	
5	Paving	Paving	3/5/2022	4/8/2022	5	25	
6	Architectural Coating	Architectural Coating	4/9/2022	5/13/2022	5	25	

Acres of Grading (Site Preparation Phase): 0**Acres of Grading (Grading Phase): 75****Acres of Paving: 25.56****Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 1,440,060; Non-Residential Outdoor: 480,020; Striped Parking Area: 66,791 (Architectural Coating – sqft)****OffRoad Equipment**

Colton Barton Road - Mitigated Construction - 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	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
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	2	8.00	97	0.37
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	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	6.00	78	0.48

Trips and VMT

Colton Barton Road - Mitigated Construction - San Bernardino-South Coast County, Summer

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	11,934.00	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	155.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	869.00	340.00	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	174.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

Water Unpaved Roads

Reduce Vehicle Speed on Unpaved Roads

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					25.8277	0.0000	25.8277	3.9106	0.0000	3.9106			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	25.8277	1.5513	27.3791	3.9106	1.4411	5.3516		3,747.9449	3,747.9449	1.0549		3,774.3174

Colton Barton Road - Mitigated Construction - San Bernardino-South Coast County, Summer

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	0.7091	27.2198	4.2159	0.0927	2.0885	0.0770	2.1655	0.5726	0.0737	0.6463		9,847.8137	9,847.8137	0.5279		9,861.0109
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	0.7853	27.2670	4.8369	0.0944	2.2561	0.0781	2.3342	0.6171	0.0747	0.6917		10,011.9258	10,011.9258	0.5326		10,025.2397

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					10.0728	0.0000	10.0728	1.5251	0.0000	1.5251			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	10.0728	1.5513	11.6242	1.5251	1.4411	2.9662	0.0000	3,747.9449	3,747.9449	1.0549		3,774.3174

Colton Barton Road - Mitigated Construction - San Bernardino-South Coast County, Summer

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	0.7091	27.2198	4.2159	0.0927	2.0885	0.0770	2.1655	0.5726	0.0737	0.6463		9,847.813 7	9,847.813 7	0.5279		9,861.010 9
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	0.7853	27.2670	4.8369	0.0944	2.2561	0.0781	2.3342	0.6171	0.0747	0.6917		10,011.92 58	10,011.92 58	0.5326		10,025.23 97

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					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	3.8882	40.4971	21.1543	0.0380		2.0445	2.0445		1.8809	1.8809		3,685.656 9	3,685.656 9	1.1920		3,715.457 3
Total	3.8882	40.4971	21.1543	0.0380	18.0663	2.0445	20.1107	9.9307	1.8809	11.8116		3,685.656 9	3,685.656 9	1.1920		3,715.457 3

Colton Barton Road - Mitigated Construction - San Bernardino-South Coast County, Summer

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					7.0458	0.0000	7.0458	3.8730	0.0000	3.8730			0.0000			0.0000
Off-Road	3.8882	40.4971	21.1543	0.0380		2.0445	2.0445		1.8809	1.8809	0.0000	3,685.6569	3,685.6569	1.1920		3,715.4573
Total	3.8882	40.4971	21.1543	0.0380	7.0458	2.0445	9.0903	3.8730	1.8809	5.7539	0.0000	3,685.6569	3,685.6569	1.1920		3,715.4573

Colton Barton Road - Mitigated Construction - San Bernardino-South Coast County, Summer

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					8.6780	0.0000	8.6780	3.5972	0.0000	3.5972			0.0000			0.0000
Off-Road	4.1912	46.3998	30.8785	0.0620		1.9853	1.9853		1.8265	1.8265		6,007.0434	6,007.0434	1.9428		6,055.6134
Total	4.1912	46.3998	30.8785	0.0620	8.6780	1.9853	10.6633	3.5972	1.8265	5.4237		6,007.0434	6,007.0434	1.9428		6,055.6134

Colton Barton Road - Mitigated Construction - San Bernardino-South Coast County, Summer

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	0.0307	1.1785	0.1825	4.0100e-003	0.0904	3.3300e-003	0.0938	0.0248	3.1900e-003	0.0280		426.3480	426.3480	0.0229		426.9194
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	0.1323	1.2413	1.0105	6.2100e-003	0.3140	4.7600e-003	0.3187	0.0841	4.5100e-003	0.0886		645.1641	645.1641	0.0291		645.8912

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					3.3844	0.0000	3.3844	1.4029	0.0000	1.4029			0.0000			0.0000
Off-Road	4.1912	46.3998	30.8785	0.0620		1.9853	1.9853		1.8265	1.8265	0.0000	6,007.0434	6,007.0434	1.9428		6,055.6134
Total	4.1912	46.3998	30.8785	0.0620	3.3844	1.9853	5.3698	1.4029	1.8265	3.2294	0.0000	6,007.0434	6,007.0434	1.9428		6,055.6134

Colton Barton Road - Mitigated Construction - San Bernardino-South Coast County, Summer

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	0.0307	1.1785	0.1825	4.0100e-003	0.0904	3.3300e-003	0.0938	0.0248	3.1900e-003	0.0280		426.3480	426.3480	0.0229		426.9194
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	0.1323	1.2413	1.0105	6.2100e-003	0.3140	4.7600e-003	0.3187	0.0841	4.5100e-003	0.0886		645.1641	645.1641	0.0291		645.8912

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	1.9009	17.4321	16.5752	0.0269		0.9586	0.9586		0.9013	0.9013		2,553.3639	2,553.3639	0.6160		2,568.7643
Total	1.9009	17.4321	16.5752	0.0269		0.9586	0.9586		0.9013	0.9013		2,553.3639	2,553.3639	0.6160		2,568.7643

Colton Barton Road - Mitigated Construction - San Bernardino-South Coast County, Summer

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	0.8799	32.7887	6.1698	0.0917	2.1776	0.0562	2.2338	0.6270	0.0538	0.6808		9,676.0365	9,676.0365	0.6115		9,691.3235
Worker	4.4153	2.7292	35.9752	0.0955	9.7134	0.0621	9.7755	2.5760	0.0572	2.6332		9,507.5597	9,507.5597	0.2706		9,514.3246
Total	5.2952	35.5179	42.1449	0.1872	11.8910	0.1184	12.0093	3.2030	0.1110	3.3140		19,183.5962	19,183.5962	0.8821		19,205.6481

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	1.9009	17.4321	16.5752	0.0269		0.9586	0.9586		0.9013	0.9013	0.0000	2,553.3639	2,553.3639	0.6160		2,568.7643
Total	1.9009	17.4321	16.5752	0.0269		0.9586	0.9586		0.9013	0.9013	0.0000	2,553.3639	2,553.3639	0.6160		2,568.7643

Colton Barton Road - Mitigated Construction - San Bernardino-South Coast County, Summer

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	0.8799	32.7887	6.1698	0.0917	2.1776	0.0562	2.2338	0.6270	0.0538	0.6808		9,676.0365	9,676.0365	0.6115		9,691.3235
Worker	4.4153	2.7292	35.9752	0.0955	9.7134	0.0621	9.7755	2.5760	0.0572	2.6332		9,507.5597	9,507.5597	0.2706		9,514.3246
Total	5.2952	35.5179	42.1449	0.1872	11.8910	0.1184	12.0093	3.2030	0.1110	3.3140		19,183.5962	19,183.5962	0.8821		19,205.6481

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	1.7062	15.6156	16.3634	0.0269		0.8090	0.8090		0.7612	0.7612		2,554.3336	2,554.3336	0.6120		2,569.6322
Total	1.7062	15.6156	16.3634	0.0269		0.8090	0.8090		0.7612	0.7612		2,554.3336	2,554.3336	0.6120		2,569.6322

Colton Barton Road - Mitigated Construction - San Bernardino-South Coast County, Summer

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	0.8196	31.0971	5.7044	0.0910	2.1776	0.0472	2.2248	0.6270	0.0452	0.6722		9,598.4578	9,598.4578	0.5903		9,613.2157
Worker	4.1233	2.4539	33.0485	0.0920	9.7134	0.0603	9.7737	2.5760	0.0555	2.6316		9,164.4950	9,164.4950	0.2427		9,170.5630
Total	4.9430	33.5509	38.7528	0.1830	11.8909	0.1075	11.9985	3.2030	0.1007	3.3037		18,762.9528	18,762.9528	0.8330		18,783.7786

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	1.7062	15.6156	16.3634	0.0269		0.8090	0.8090		0.7612	0.7612	0.0000	2,554.3336	2,554.3336	0.6120		2,569.6322
Total	1.7062	15.6156	16.3634	0.0269		0.8090	0.8090		0.7612	0.7612	0.0000	2,554.3336	2,554.3336	0.6120		2,569.6322

Colton Barton Road - Mitigated Construction - San Bernardino-South Coast County, Summer

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	0.8196	31.0971	5.7044	0.0910	2.1776	0.0472	2.2248	0.6270	0.0452	0.6722		9,598.4578	9,598.4578	0.5903		9,613.2157
Worker	4.1233	2.4539	33.0485	0.0920	9.7134	0.0603	9.7737	2.5760	0.0555	2.6316		9,164.4950	9,164.4950	0.2427		9,170.5630
Total	4.9430	33.5509	38.7528	0.1830	11.8909	0.1075	11.9985	3.2030	0.1007	3.3037		18,762.9528	18,762.9528	0.8330		18,783.7786

3.6 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	0.6864					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.7893	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

Colton Barton Road - Mitigated Construction - San Bernardino-South Coast County, Summer

3.6 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	0.6864					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.7893	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

Colton Barton Road - Mitigated Construction - San Bernardino-South Coast County, Summer

3.6 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

3.7 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	47.9813					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2045	1.4085	1.8136	2.9700e-003		0.0817	0.0817		0.0817	0.0817		281.4481	281.4481	0.0183		281.9062
Total	48.1859	1.4085	1.8136	2.9700e-003		0.0817	0.0817		0.0817	0.0817		281.4481	281.4481	0.0183		281.9062

Colton Barton Road - Mitigated Construction - San Bernardino-South Coast County, Summer

3.7 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	0.8256	0.4913	6.6173	0.0184	1.9449	0.0121	1.9570	0.5158	0.0111	0.5269		1,835.008 2	1,835.008 2	0.0486		1,836.223 2
Total	0.8256	0.4913	6.6173	0.0184	1.9449	0.0121	1.9570	0.5158	0.0111	0.5269		1,835.008 2	1,835.008 2	0.0486		1,836.223 2

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	47.9813					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2045	1.4085	1.8136	2.9700e-003		0.0817	0.0817		0.0817	0.0817	0.0000	281.4481	281.4481	0.0183		281.9062
Total	48.1859	1.4085	1.8136	2.9700e-003		0.0817	0.0817		0.0817	0.0817	0.0000	281.4481	281.4481	0.0183		281.9062

Colton Barton Road - Mitigated Construction - San Bernardino-South Coast County, Summer

3.7 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	0.8256	0.4913	6.6173	0.0184	1.9449	0.0121	1.9570	0.5158	0.0111	0.5269		1,835.008 2	1,835.008 2	0.0486		1,836.223 2
Total	0.8256	0.4913	6.6173	0.0184	1.9449	0.0121	1.9570	0.5158	0.0111	0.5269		1,835.008 2	1,835.008 2	0.0486		1,836.223 2

4.0 Operational Detail - Mobile**4.1 Mitigation Measures Mobile**

Colton Barton Road - Mitigated Construction - San Bernardino-South Coast County, Summer

	ROG	NOx	CO	SO2	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

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Office Building	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

Land Use	Miles			Trip %			Trip Purpose %		
	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
General Office Building	16.60	8.40	6.90	33.00	48.00	19.00	77	19	4
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	16.60	8.40	6.90	59.00	0.00	41.00	92	5	3

4.4 Fleet Mix

Colton Barton Road - Mitigated Construction - San Bernardino-South Coast County, Summer

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
General Office Building	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

Colton Barton Road - Mitigated Construction - San Bernardino-South Coast County, Summer

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					
General Office Building	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

Colton Barton Road - Mitigated Construction - San Bernardino-South Coast County, Summer

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					
General Office Building	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**

Colton Barton Road - Mitigated Construction - San Bernardino-South Coast County, Summer

	ROG	NOx	CO	SO2	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	21.9432	1.6800e-003	0.1835	1.0000e-005		6.6000e-004	6.6000e-004		6.6000e-004	6.6000e-004		0.3927	0.3927	1.0400e-003		0.4186
Unmitigated	21.9432	1.6800e-003	0.1835	1.0000e-005		6.6000e-004	6.6000e-004		6.6000e-004	6.6000e-004		0.3927	0.3927	1.0400e-003		0.4186

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	2.5231					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	19.4031					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0171	1.6800e-003	0.1835	1.0000e-005		6.6000e-004	6.6000e-004		6.6000e-004	6.6000e-004		0.3927	0.3927	1.0400e-003		0.4186
Total	21.9432	1.6800e-003	0.1835	1.0000e-005		6.6000e-004	6.6000e-004		6.6000e-004	6.6000e-004		0.3927	0.3927	1.0400e-003		0.4186

Colton Barton Road - Mitigated Construction - San Bernardino-South Coast County, Summer

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	2.5231					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	19.4031					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0171	1.6800e-003	0.1835	1.0000e-005		6.6000e-004	6.6000e-004		6.6000e-004	6.6000e-004		0.3927	0.3927	1.0400e-003		0.4186
Total	21.9432	1.6800e-003	0.1835	1.0000e-005		6.6000e-004	6.6000e-004		6.6000e-004	6.6000e-004		0.3927	0.3927	1.0400e-003		0.4186

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**

Colton Barton Road - Mitigated Construction - San Bernardino-South Coast County, Summer

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

Colton Barton Road - Mitigated Construction - San Bernardino-South Coast County, Winter

Colton Barton Road - Mitigated Construction
San Bernardino-South Coast County, Winter

1.0 Project Characteristics**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	20.00	1000sqft	0.46	20,000.00	0
Unrefrigerated Warehouse-No Rail	940.04	1000sqft	21.58	940,040.00	0
Other Non-Asphalt Surfaces	827.87	1000sqft	19.01	827,873.00	0
Parking Lot	6.55	Acre	6.55	285,318.00	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/MW hr)	598.29	CH4 Intensity (lb/MW hr)	0.029	N2O Intensity (lb/MW hr)	0.006

1.3 User Entered Comments & Non-Default Data

Colton Barton Road - Mitigated Construction - San Bernardino-South Coast County, Winter

Project Characteristics - Mitigated Construction

Colton Electric Utility not included as option in CalEEMod - CO2 intensity updated for Colton Electric Utility and accounts for compliance with RPS

Land Use - Based on site plan, project description, and applicant-provided response to information request.

Construction Phase - Applicant-provided construction schedule, consistent with the project description

Trips and VMT -

Demolition - The total building square footage that would be demolished is 659,435 square feet. The total amount of hardscape to be demolished or removed, including asphalt concrete, concrete pavement, and concrete building slab, would be 1,603,931 square feet.

Grading - The total import volume would be 1,238 cubic yards. There would be no export volume.

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 - Compliance with SCAQMD Rule 403

Architectural Coating - Use architectural coatings volatile organic compound ROC/VOC with 10 grams per liter or less during construction

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	100.00	10.00
tblArchitecturalCoating	EF_Nonresidential_Interior	100.00	10.00
tblConstDustMitigation	WaterUnpavedRoadMoistureContent	0	12
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstructionPhase	NumDays	50.00	100.00
tblConstructionPhase	NumDays	30.00	20.00
tblConstructionPhase	NumDays	75.00	30.00
tblConstructionPhase	NumDays	740.00	125.00
tblConstructionPhase	NumDays	55.00	25.00
tblConstructionPhase	NumDays	55.00	25.00
tblEnergyUse	LightingElect	3.66	0.00
tblEnergyUse	LightingElect	0.35	0.00

Colton Barton Road - Mitigated Construction - San Bernardino-South Coast County, Winter

tblEnergyUse	LightingElect	1.17	0.00
tblEnergyUse	NT24E	2.79	0.00
tblEnergyUse	NT24E	0.82	0.00
tblEnergyUse	NT24NG	0.03	0.00
tblEnergyUse	T24E	3.07	0.00
tblEnergyUse	T24E	0.37	0.00
tblEnergyUse	T24NG	3.47	0.00
tblEnergyUse	T24NG	2.00	0.00
tblGrading	MaterialImported	0.00	1,238.00
tblLandUse	LandUseSquareFeet	827,870.00	827,873.00
tblProjectCharacteristics	CO2IntensityFactor	702.44	598.29
tblSolidWaste	SolidWasteGenerationRate	18.60	0.00
tblSolidWaste	SolidWasteGenerationRate	883.64	0.00
tblVehicleTrips	ST_TR	2.46	0.00
tblVehicleTrips	ST_TR	1.68	0.00
tblVehicleTrips	SU_TR	1.05	0.00
tblVehicleTrips	SU_TR	1.68	0.00
tblVehicleTrips	WD_TR	11.03	0.00
tblVehicleTrips	WD_TR	1.68	0.00
tblWater	IndoorWaterUseRate	3,554,674.96	0.00
tblWater	IndoorWaterUseRate	217,384,250.00	0.00
tblWater	OutdoorWaterUseRate	2,178,671.75	0.00

2.0 Emissions Summary

Colton Barton Road - Mitigated Construction - San Bernardino-South Coast County, Winter

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	7.2593	58.8124	53.2997	0.2007	28.0839	2.0458	29.7144	9.9840	1.8821	11.8661	0.0000	20,382.77 31	20,382.77 31	1.9731	0.0000	20,421.05 29
2022	49.0154	48.9269	50.1255	0.1968	11.8909	0.9179	12.8089	3.2030	0.8632	4.0662	0.0000	19,999.05 48	19,999.05 48	1.4803	0.0000	20,036.06 30
Maximum	49.0154	58.8124	53.2997	0.2007	28.0839	2.0458	29.7144	9.9840	1.8821	11.8661	0.0000	20,382.77 31	20,382.77 31	1.9731	0.0000	20,421.05 29

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	7.2593	58.8124	53.2997	0.2007	12.3290	2.0458	13.9594	3.9263	1.8821	5.8084	0.0000	20,382.77 31	20,382.77 31	1.9731	0.0000	20,421.05 28
2022	49.0154	48.9269	50.1255	0.1968	11.8909	0.9179	12.8089	3.2030	0.8632	4.0662	0.0000	19,999.05 48	19,999.05 48	1.4803	0.0000	20,036.06 30
Maximum	49.0154	58.8124	53.2997	0.2007	12.3290	2.0458	13.9594	3.9263	1.8821	5.8084	0.0000	20,382.77 31	20,382.77 31	1.9731	0.0000	20,421.05 28

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	39.41	0.00	37.05	45.94	0.00	38.02	0.00	0.00	0.00	0.00	0.00	0.00

Colton Barton Road - Mitigated Construction - San Bernardino-South Coast County, Winter

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	21.9432	1.6800e-003	0.1835	1.0000e-005		6.6000e-004	6.6000e-004		6.6000e-004	6.6000e-004		0.3927	0.3927	1.0400e-003		0.4186
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	21.9432	1.6800e-003	0.1835	1.0000e-005	0.0000	6.6000e-004	6.6000e-004	0.0000	6.6000e-004	6.6000e-004		0.3927	0.3927	1.0400e-003	0.0000	0.4186

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	21.9432	1.6800e-003	0.1835	1.0000e-005		6.6000e-004	6.6000e-004		6.6000e-004	6.6000e-004		0.3927	0.3927	1.0400e-003		0.4186
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	21.9432	1.6800e-003	0.1835	1.0000e-005	0.0000	6.6000e-004	6.6000e-004	0.0000	6.6000e-004	6.6000e-004		0.3927	0.3927	1.0400e-003	0.0000	0.4186

Colton Barton Road - Mitigated Construction - San Bernardino-South Coast County, Winter

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	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	2/15/2021	7/2/2021	5	100	
2	Site Preparation	Site Preparation	7/3/2021	7/30/2021	5	20	
3	Grading	Grading	7/31/2021	9/10/2021	5	30	
4	Building Construction	Building Construction	9/11/2021	3/4/2022	5	125	
5	Paving	Paving	3/5/2022	4/8/2022	5	25	
6	Architectural Coating	Architectural Coating	4/9/2022	5/13/2022	5	25	

Acres of Grading (Site Preparation Phase): 0**Acres of Grading (Grading Phase): 75****Acres of Paving: 25.56****Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 1,440,060; Non-Residential Outdoor: 480,020; Striped Parking Area: 66,791 (Architectural Coating – sqft)****OffRoad Equipment**

Colton Barton Road - Mitigated Construction - 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	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
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	2	8.00	97	0.37
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	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	6.00	78	0.48

Trips and VMT

Colton Barton Road - Mitigated Construction - San Bernardino-South Coast County, Winter

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	11,934.00	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	155.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	869.00	340.00	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	174.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

Water Unpaved Roads

Reduce Vehicle Speed on Unpaved Roads

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					25.8277	0.0000	25.8277	3.9106	0.0000	3.9106			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	25.8277	1.5513	27.3791	3.9106	1.4411	5.3516		3,747.9449	3,747.9449	1.0549		3,774.3174

Colton Barton Road - Mitigated Construction - San Bernardino-South Coast County, Winter

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	0.7412	27.3222	4.8148	0.0903	2.0885	0.0781	2.1665	0.5726	0.0747	0.6473		9,589.7297	9,589.7297	0.5733		9,604.0617
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	0.8175	27.3717	5.3242	0.0918	2.2561	0.0791	2.3353	0.6171	0.0757	0.6927		9,736.9543	9,736.9543	0.5774		9,751.3888

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					10.0728	0.0000	10.0728	1.5251	0.0000	1.5251			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	10.0728	1.5513	11.6242	1.5251	1.4411	2.9662	0.0000	3,747.9449	3,747.9449	1.0549		3,774.3174

Colton Barton Road - Mitigated Construction - San Bernardino-South Coast County, Winter

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	0.7412	27.3222	4.8148	0.0903	2.0885	0.0781	2.1665	0.5726	0.0747	0.6473		9,589.7297	9,589.7297	0.5733		9,604.0617
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	0.8175	27.3717	5.3242	0.0918	2.2561	0.0791	2.3353	0.6171	0.0757	0.6927		9,736.9543	9,736.9543	0.5774		9,751.3888

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					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	3.8882	40.4971	21.1543	0.0380		2.0445	2.0445		1.8809	1.8809		3,685.6569	3,685.6569	1.1920		3,715.4573
Total	3.8882	40.4971	21.1543	0.0380	18.0663	2.0445	20.1107	9.9307	1.8809	11.8116		3,685.6569	3,685.6569	1.1920		3,715.4573

Colton Barton Road - Mitigated Construction - San Bernardino-South Coast County, Winter

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					7.0458	0.0000	7.0458	3.8730	0.0000	3.8730			0.0000			0.0000
Off-Road	3.8882	40.4971	21.1543	0.0380		2.0445	2.0445		1.8809	1.8809	0.0000	3,685.6569	3,685.6569	1.1920		3,715,4573
Total	3.8882	40.4971	21.1543	0.0380	7.0458	2.0445	9.0903	3.8730	1.8809	5.7539	0.0000	3,685.6569	3,685.6569	1.1920		3,715,4573

Colton Barton Road - Mitigated Construction - San Bernardino-South Coast County, Winter

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					8.6780	0.0000	8.6780	3.5972	0.0000	3.5972			0.0000			0.0000
Off-Road	4.1912	46.3998	30.8785	0.0620		1.9853	1.9853		1.8265	1.8265		6,007.0434	6,007.0434	1.9428		6,055.6134
Total	4.1912	46.3998	30.8785	0.0620	8.6780	1.9853	10.6633	3.5972	1.8265	5.4237		6,007.0434	6,007.0434	1.9428		6,055.6134

Colton Barton Road - Mitigated Construction - San Bernardino-South Coast County, Winter

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	0.0321	1.1829	0.2085	3.9100e-003	0.0904	3.3800e-003	0.0938	0.0248	3.2300e-003	0.0280		415.1746	415.1746	0.0248		415.7951
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	0.1339	1.2490	0.8876	5.8800e-003	0.3140	4.8100e-003	0.3188	0.0841	4.5500e-003	0.0886		611.4741	611.4741	0.0303		612.2312

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					3.3844	0.0000	3.3844	1.4029	0.0000	1.4029			0.0000			0.0000
Off-Road	4.1912	46.3998	30.8785	0.0620		1.9853	1.9853		1.8265	1.8265	0.0000	6,007.0434	6,007.0434	1.9428		6,055.6134
Total	4.1912	46.3998	30.8785	0.0620	3.3844	1.9853	5.3698	1.4029	1.8265	3.2294	0.0000	6,007.0434	6,007.0434	1.9428		6,055.6134

Colton Barton Road - Mitigated Construction - San Bernardino-South Coast County, Winter

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	0.0321	1.1829	0.2085	3.9100e-003	0.0904	3.3800e-003	0.0938	0.0248	3.2300e-003	0.0280		415.1746	415.1746	0.0248		415.7951
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	0.1339	1.2490	0.8876	5.8800e-003	0.3140	4.8100e-003	0.3188	0.0841	4.5500e-003	0.0886		611.4741	611.4741	0.0303		612.2312

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	1.9009	17.4321	16.5752	0.0269		0.9586	0.9586		0.9013	0.9013		2,553.3639	2,553.3639	0.6160		2,568.7643
Total	1.9009	17.4321	16.5752	0.0269		0.9586	0.9586		0.9013	0.9013		2,553.3639	2,553.3639	0.6160		2,568.7643

Colton Barton Road - Mitigated Construction - San Bernardino-South Coast County, Winter

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	0.9333	32.4397	7.2169	0.0882	2.1776	0.0578	2.2354	0.6270	0.0553	0.6823		9,300.194 4	9,300.194 4	0.6778		9,317.138 5
Worker	4.4251	2.8706	29.5076	0.0856	9.7134	0.0621	9.7755	2.5760	0.0572	2.6332		8,529.214 8	8,529.214 8	0.2374		8,535.150 1
Total	5.3584	35.3102	36.7245	0.1738	11.8910	0.1199	12.0109	3.2030	0.1125	3.3155		17,829.40 92	17,829.40 92	0.9152		17,852.28 86

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	1.9009	17.4321	16.5752	0.0269		0.9586	0.9586		0.9013	0.9013	0.0000	2,553.363 9	2,553.363 9	0.6160		2,568.764 3
Total	1.9009	17.4321	16.5752	0.0269		0.9586	0.9586		0.9013	0.9013	0.0000	2,553.363 9	2,553.363 9	0.6160		2,568.764 3

Colton Barton Road - Mitigated Construction - San Bernardino-South Coast County, Winter

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	0.9333	32.4397	7.2169	0.0882	2.1776	0.0578	2.2354	0.6270	0.0553	0.6823		9,300.194 4	9,300.194 4	0.6778		9,317.138 5
Worker	4.4251	2.8706	29.5076	0.0856	9.7134	0.0621	9.7755	2.5760	0.0572	2.6332		8,529.214 8	8,529.214 8	0.2374		8,535.150 1
Total	5.3584	35.3102	36.7245	0.1738	11.8910	0.1199	12.0109	3.2030	0.1125	3.3155		17,829.40 92	17,829.40 92	0.9152		17,852.28 86

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	1.7062	15.6156	16.3634	0.0269		0.8090	0.8090		0.7612	0.7612		2,554.333 6	2,554.333 6	0.6120		2,569.632 2
Total	1.7062	15.6156	16.3634	0.0269		0.8090	0.8090		0.7612	0.7612		2,554.333 6	2,554.333 6	0.6120		2,569.632 2

Colton Barton Road - Mitigated Construction - San Bernardino-South Coast County, Winter

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	0.8705	30.7314	6.6998	0.0874	2.1776	0.0486	2.2262	0.6270	0.0465	0.6735		9,222.7126	9,222.7126	0.6553		9,239.0951
Worker	4.1430	2.5798	27.0623	0.0825	9.7134	0.0603	9.7737	2.5760	0.0555	2.6316		8,222.0086	8,222.0086	0.2131		8,227.3357
Total	5.0135	33.3112	33.7621	0.1699	11.8909	0.1089	11.9999	3.2030	0.1020	3.3050		17,444.7212	17,444.7212	0.8684		17,466.4308

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	1.7062	15.6156	16.3634	0.0269		0.8090	0.8090		0.7612	0.7612	0.0000	2,554.3336	2,554.3336	0.6120		2,569.6322
Total	1.7062	15.6156	16.3634	0.0269		0.8090	0.8090		0.7612	0.7612	0.0000	2,554.3336	2,554.3336	0.6120		2,569.6322

Colton Barton Road - Mitigated Construction - San Bernardino-South Coast County, Winter

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	0.8705	30.7314	6.6998	0.0874	2.1776	0.0486	2.2262	0.6270	0.0465	0.6735		9,222.7126	9,222.7126	0.6553		9,239.0951
Worker	4.1430	2.5798	27.0623	0.0825	9.7134	0.0603	9.7737	2.5760	0.0555	2.6316		8,222.0086	8,222.0086	0.2131		8,227.3357
Total	5.0135	33.3112	33.7621	0.1699	11.8909	0.1089	11.9999	3.2030	0.1020	3.3050		17,444.7212	17,444.7212	0.8684		17,466.4308

3.6 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	0.6864					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.7893	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

Colton Barton Road - Mitigated Construction - San Bernardino-South Coast County, Winter

3.6 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	0.6864					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.7893	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

Colton Barton Road - Mitigated Construction - San Bernardino-South Coast County, Winter

3.6 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

3.7 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	47.9813					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2045	1.4085	1.8136	2.9700e-003		0.0817	0.0817		0.0817	0.0817		281.4481	281.4481	0.0183		281.9062
Total	48.1859	1.4085	1.8136	2.9700e-003		0.0817	0.0817		0.0817	0.0817		281.4481	281.4481	0.0183		281.9062

Colton Barton Road - Mitigated Construction - San Bernardino-South Coast County, Winter

3.7 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	0.8296	0.5166	5.4187	0.0165	1.9449	0.0121	1.9570	0.5158	0.0111	0.5269		1,646.2940	1,646.2940	0.0427		1,647.3607
Total	0.8296	0.5166	5.4187	0.0165	1.9449	0.0121	1.9570	0.5158	0.0111	0.5269		1,646.2940	1,646.2940	0.0427		1,647.3607

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	47.9813					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2045	1.4085	1.8136	2.9700e-003		0.0817	0.0817		0.0817	0.0817	0.0000	281.4481	281.4481	0.0183		281.9062
Total	48.1859	1.4085	1.8136	2.9700e-003		0.0817	0.0817		0.0817	0.0817	0.0000	281.4481	281.4481	0.0183		281.9062

Colton Barton Road - Mitigated Construction - San Bernardino-South Coast County, Winter

3.7 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	0.8296	0.5166	5.4187	0.0165	1.9449	0.0121	1.9570	0.5158	0.0111	0.5269		1,646.294 0	1,646.294 0	0.0427		1,647.360 7
Total	0.8296	0.5166	5.4187	0.0165	1.9449	0.0121	1.9570	0.5158	0.0111	0.5269		1,646.294 0	1,646.294 0	0.0427		1,647.360 7

4.0 Operational Detail - Mobile**4.1 Mitigation Measures Mobile**

Colton Barton Road - Mitigated Construction - San Bernardino-South Coast County, Winter

	ROG	NOx	CO	SO2	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

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Office Building	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

Land Use	Miles			Trip %			Trip Purpose %		
	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
General Office Building	16.60	8.40	6.90	33.00	48.00	19.00	77	19	4
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	16.60	8.40	6.90	59.00	0.00	41.00	92	5	3

4.4 Fleet Mix

Colton Barton Road - Mitigated Construction - San Bernardino-South Coast County, Winter

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
General Office Building	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

Colton Barton Road - Mitigated Construction - San Bernardino-South Coast County, Winter

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					
General Office Building	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

Colton Barton Road - Mitigated Construction - San Bernardino-South Coast County, Winter

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					
General Office Building	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**

Colton Barton Road - Mitigated Construction - San Bernardino-South Coast County, Winter

	ROG	NOx	CO	SO2	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	21.9432	1.6800e-003	0.1835	1.0000e-005		6.6000e-004	6.6000e-004		6.6000e-004	6.6000e-004		0.3927	0.3927	1.0400e-003		0.4186
Unmitigated	21.9432	1.6800e-003	0.1835	1.0000e-005		6.6000e-004	6.6000e-004		6.6000e-004	6.6000e-004		0.3927	0.3927	1.0400e-003		0.4186

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	2.5231					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	19.4031					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0171	1.6800e-003	0.1835	1.0000e-005		6.6000e-004	6.6000e-004		6.6000e-004	6.6000e-004		0.3927	0.3927	1.0400e-003		0.4186
Total	21.9432	1.6800e-003	0.1835	1.0000e-005		6.6000e-004	6.6000e-004		6.6000e-004	6.6000e-004		0.3927	0.3927	1.0400e-003		0.4186

Colton Barton Road - Mitigated Construction - San Bernardino-South Coast County, Winter

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	2.5231					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	19.4031					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0171	1.6800e-003	0.1835	1.0000e-005		6.6000e-004	6.6000e-004		6.6000e-004	6.6000e-004		0.3927	0.3927	1.0400e-003		0.4186
Total	21.9432	1.6800e-003	0.1835	1.0000e-005		6.6000e-004	6.6000e-004		6.6000e-004	6.6000e-004		0.3927	0.3927	1.0400e-003		0.4186

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**

Colton Barton Road - Mitigated Construction - San Bernardino-South Coast County, Winter

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

Colton Barton Road-Area, Building Operations, and Passenger Vehicle Operations - San Bernardino-South Coast County, Annual

Colton Barton Road-Area, Building Operations, and Passenger Vehicle Operations
San Bernardino-South Coast County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	20.00	1000sqft	0.46	20,000.00	0
Unrefrigerated Warehouse-No Rail	940.04	1000sqft	21.58	940,040.00	0
Other Non-Asphalt Surfaces	827.87	1000sqft	19.01	827,873.00	0
Parking Lot	6.55	Acre	6.55	285,318.00	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)	598.29	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

1.3 User Entered Comments & Non-Default Data

Colton Barton Road-Area, Building Operations, and Passenger Vehicle Operations - San Bernardino-South Coast County, Annual

Project Characteristics - Area, Building Operations, and Passenger Vehicle Operations

Colton Electric Utility not included as option in CalEEMod - CO2 intensity updated for Colton Electric Utility and accounts for compliance with RPS.

Land Use - Based on site plan, project description, and applicant-provided response for information response.

Construction Phase - Operational run only

Off-road Equipment - Operational run only

Off-road Equipment - Project-specific adjustments to the building construction equipment

Trips and VMT - Operational run only

Demolition -

Grading -

Architectural Coating -

Vehicle Trips - Passenger car trip generation rate consistent with the project-specific traffic information

Vehicle Emission Factors -

Vehicle Emission Factors -

Vehicle Emission Factors -

Consumer Products - Updated based on 2017 ARB VOC inventory data and 2017 population estimates based on the State of California's Department of Finance demographic projections were used to estimate a statewide VOC EF for 2017.

Area Coating -

Energy Use -

Water And Wastewater -

Solid Waste -

Construction Off-road Equipment Mitigation -

Area Mitigation - Statewide average

Water Mitigation - Compliance with Green Building Code Standards and California Model Water Efficient Landscape Ordinance

Fleet Mix - Passenger vehicles consisting of LDA, LDT1, LDT2, and MDV

Colton Barton Road-Area, Building Operations, and Passenger Vehicle Operations - San Bernardino-South Coast County, Annual

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	55.00	1.00
tblConsumerProducts	ROG_EF	1.98E-05	1.62E-05
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	LandUseSquareFeet	827,870.00	827,873.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	UsageHours	6.00	0.00
tblProjectCharacteristics	CO2IntensityFactor	702.44	598.29
tblTripsAndVMT	WorkerTripNumber	174.00	0.00
tblVehicleTrips	ST_TR	2.46	0.00
tblVehicleTrips	ST_TR	1.68	1.20
tblVehicleTrips	SU_TR	1.05	0.00
tblVehicleTrips	SU_TR	1.68	1.20
tblVehicleTrips	WD_TR	11.03	0.00
tblVehicleTrips	WD_TR	1.68	1.20

Colton Barton Road-Area, Building Operations, and Passenger Vehicle Operations - San Bernardino-South Coast County, Annual

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	4.6046	0.0000	0.0000	0.0000	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	4.6046	0.0000	0.0000	0.0000	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	4.6046	0.0000	0.0000	0.0000	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	4.6046	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

Colton Barton Road-Area, Building Operations, and Passenger Vehicle Operations - San Bernardino-South Coast County, Annual

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	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)
1	2-15-2021	5-14-2021	3.2890	3.2890
		Highest	3.2890	3.2890

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	3.3729	2.1000e-004	0.0229	0.0000		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005	0.0000	0.0445	0.0445	1.2000e-004	0.0000	0.0475
Energy	0.0107	0.0970	0.0814	5.8000e-004		7.3700e-003	7.3700e-003		7.3700e-003	7.3700e-003	0.0000	786.3622	786.3622	0.0350	8.7600e-003	789.8490
Mobile	0.2680	0.4754	4.8092	0.0166	1.8045	0.0104	1.8149	0.4790	9.5900e-003	0.4886	0.0000	1,502.2403	1,502.2403	0.0331	0.0000	1,503.0667
Waste						0.0000	0.0000		0.0000	0.0000	183.1466	0.0000	183.1466	10.8237	0.0000	453.7379
Water						0.0000	0.0000		0.0000	0.0000	70.0937	787.2865	857.3803	7.2375	0.1779	1,091.3269
Total	3.6516	0.5726	4.9136	0.0172	1.8045	0.0179	1.8224	0.4790	0.0170	0.4961	253.2403	3,075.9335	3,329.1738	18.1293	0.1867	3,838.0279

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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	3.3729	2.1000e-004	0.0227	0.0000		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005	0.0000	0.0439	0.0439	1.2000e-004	0.0000	0.0468
Energy	0.0107	0.0970	0.0814	5.8000e-004		7.3700e-003	7.3700e-003		7.3700e-003	7.3700e-003	0.0000	786.3622	786.3622	0.0350	8.7600e-003	789.8490
Mobile	0.2680	0.4754	4.8092	0.0166	1.8045	0.0104	1.8149	0.4790	9.5900e-003	0.4886	0.0000	1,502.2403	1,502.2403	0.0331	0.0000	1,503.0667
Waste						0.0000	0.0000		0.0000	0.0000	183.1466	0.0000	183.1466	10.8237	0.0000	453.7379
Water						0.0000	0.0000		0.0000	0.0000	56.0750	629.8292	685.9042	5.7900	0.1423	873.0615
Total	3.6516	0.5726	4.9133	0.0172	1.8045	0.0179	1.8224	0.4790	0.0170	0.4961	239.2216	2,918.4756	3,157.6972	16.6818	0.1511	3,619.7618

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.54	5.12	5.15	7.98	19.06	5.69

3.0 Construction Detail**Construction Phase**

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Architectural Coating	Architectural Coating	2/15/2021	2/15/2021	5	1	

Acres of Grading (Site Preparation Phase): 0

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Acres of Grading (Grading Phase): 0**Acres of Paving: 25.56****Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 1,440,060; Non-Residential Outdoor: 480,020; Striped Parking Area: 66,791 (Architectural Coating – sqft)****OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	0	0.00	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
Architectural Coating	0	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

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3.2 Architectural Coating - 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					
Archit. Coating	4.6046					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
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
Total	4.6046	0.0000	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

Colton Barton Road-Area, Building Operations, and Passenger Vehicle Operations - San Bernardino-South Coast County, Annual

3.2 Architectural Coating - 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					
Archit. Coating	4.6046					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
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
Total	4.6046	0.0000	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

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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	0.2680	0.4754	4.8092	0.0166	1.8045	0.0104	1.8149	0.4790	9.5900e-003	0.4886	0.0000	1,502.2403	1,502.2403	0.0331	0.0000	1,503.0667
Unmitigated	0.2680	0.4754	4.8092	0.0166	1.8045	0.0104	1.8149	0.4790	9.5900e-003	0.4886	0.0000	1,502.2403	1,502.2403	0.0331	0.0000	1,503.0667

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Office Building	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	1,130.00	1,130.00	1,130.00	4,842,874	4,842,874
Total	1,130.00	1,130.00	1,130.00	4,842,874	4,842,874

4.3 Trip Type Information

Colton Barton Road-Area, Building Operations, and Passenger Vehicle Operations - San Bernardino-South Coast County, Annual

Land Use	Miles			Trip %			Trip Purpose %		
	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
General Office Building	16.60	8.40	6.90	33.00	48.00	19.00	77	19	4
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	16.60	8.40	6.90	59.00	0.00	41.00	92	5	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
General Office Building	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	0.624181	0.041086	0.203450	0.131283	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

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	ROG	NOx	CO	SO2	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	680.8256	680.8256	0.0330	6.8300e-003	683.6852
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	680.8256	680.8256	0.0330	6.8300e-003	683.6852
NaturalGas Mitigated	0.0107	0.0970	0.0814	5.8000e-004		7.3700e-003	7.3700e-003		7.3700e-003	7.3700e-003	0.0000	105.5366	105.5366	2.0200e-003	1.9300e-003	106.1638
NaturalGas Unmitigated	0.0107	0.0970	0.0814	5.8000e-004		7.3700e-003	7.3700e-003		7.3700e-003	7.3700e-003	0.0000	105.5366	105.5366	2.0200e-003	1.9300e-003	106.1638

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					
General Office Building	69400	3.7000e-004	3.4000e-003	2.8600e-003	2.0000e-005		2.6000e-004	2.6000e-004		2.6000e-004	2.6000e-004	0.0000	3.7035	3.7035	7.0000e-005	7.0000e-005	3.7255
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	1.90828e+006	0.0103	0.0935	0.0786	5.6000e-004		7.1100e-003	7.1100e-003		7.1100e-003	7.1100e-003	0.0000	101.8332	101.8332	1.9500e-003	1.8700e-003	102.4383
Total		0.0107	0.0969	0.0814	5.8000e-004		7.3700e-003	7.3700e-003		7.3700e-003	7.3700e-003	0.0000	105.5366	105.5366	2.0200e-003	1.9400e-003	106.1638

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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					
General Office Building	69400	3.7000e-004	3.4000e-003	2.8600e-003	2.0000e-005		2.6000e-004	2.6000e-004		2.6000e-004	2.6000e-004	0.0000	3.7035	3.7035	7.0000e-005	7.0000e-005	3.7255
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	1.90828e+006	0.0103	0.0935	0.0786	5.6000e-004		7.1100e-003	7.1100e-003		7.1100e-003	7.1100e-003	0.0000	101.8332	101.8332	1.9500e-003	1.8700e-003	102.4383
Total		0.0107	0.0969	0.0814	5.8000e-004		7.3700e-003	7.3700e-003		7.3700e-003	7.3700e-003	0.0000	105.5366	105.5366	2.0200e-003	1.9400e-003	106.1638

Colton Barton Road-Area, Building Operations, and Passenger Vehicle Operations - San Bernardino-South Coast County, Annual

5.3 Energy by Land Use - Electricity**Unmitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
General Office Building	190400	51.6707	2.5000e-003	5.2000e-004	51.8877
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	99861.3	27.1003	1.3100e-003	2.7000e-004	27.2142
Unrefrigerated Warehouse-No Rail	2.21849e+006	602.0545	0.0292	6.0400e-003	604.5833
Total		680.8256	0.0330	6.8300e-003	683.6852

Colton Barton Road-Area, Building Operations, and Passenger Vehicle Operations - San Bernardino-South Coast County, Annual

5.3 Energy by Land Use - Electricity**Mitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
General Office Building	190400	51.6707	2.5000e-003	5.2000e-004	51.8877
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	99861.3	27.1003	1.3100e-003	2.7000e-004	27.2142
Unrefrigerated Warehouse-No Rail	2.21849e+006	602.0545	0.0292	6.0400e-003	604.5833
Total		680.8256	0.0330	6.8300e-003	683.6852

6.0 Area Detail**6.1 Mitigation Measures Area**

Use Electric Lawnmower

Use Electric Leafblower

Use Electric Chainsaw

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	ROG	NOx	CO	SO2	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	3.3729	2.1000e-004	0.0227	0.0000		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005	0.0000	0.0439	0.0439	1.2000e-004	0.0000	0.0468
Unmitigated	3.3729	2.1000e-004	0.0229	0.0000		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005	0.0000	0.0445	0.0445	1.2000e-004	0.0000	0.0475

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	0.4605					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	2.9103					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	2.1300e-003	2.1000e-004	0.0229	0.0000		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005	0.0000	0.0445	0.0445	1.2000e-004	0.0000	0.0475
Total	3.3729	2.1000e-004	0.0229	0.0000		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005	0.0000	0.0445	0.0445	1.2000e-004	0.0000	0.0475

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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	0.4605					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	2.9103					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	2.1000e-003	2.1000e-004	0.0227	0.0000		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005	0.0000	0.0439	0.0439	1.2000e-004	0.0000	0.0468
Total	3.3729	2.1000e-004	0.0227	0.0000		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005	0.0000	0.0439	0.0439	1.2000e-004	0.0000	0.0468

7.0 Water Detail**7.1 Mitigation Measures Water**

Apply Water Conservation Strategy

Colton Barton Road-Area, Building Operations, and Passenger Vehicle Operations - San Bernardino-South Coast County, Annual

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	685.9042	5.7900	0.1423	873.0615
Unmitigated	857.3803	7.2375	0.1779	1,091.326 ₉

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
General Office Building	3.55467 / 2.17867	20.2574	0.1168	2.9300e-003	24.0485
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	217.384 / 0	837.1228	7.1207	0.1750	1,067.278 ₄
Total		857.3803	7.2375	0.1779	1,091.326₉

Colton Barton Road-Area, Building Operations, and Passenger Vehicle Operations - San Bernardino-South Coast County, Annual

7.2 Water by Land Use**Mitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
General Office Building	2.84374 / 1.74294	16.2059	0.0934	2.3400e-003	19.2388
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	173.907 / 0	669.6983	5.6966	0.1400	853.8227
Total		685.9042	5.7900	0.1423	873.0615

8.0 Waste Detail**8.1 Mitigation Measures Waste**

Colton Barton Road-Area, Building Operations, and Passenger Vehicle Operations - San Bernardino-South Coast County, Annual

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	183.1466	10.8237	0.0000	453.7379
Unmitigated	183.1466	10.8237	0.0000	453.7379

8.2 Waste by Land Use**Unmitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
General Office Building	18.6	3.7756	0.2231	0.0000	9.3540
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	883.64	179.3709	10.6005	0.0000	444.3839
Total		183.1466	10.8237	0.0000	453.7379

Colton Barton Road-Area, Building Operations, and Passenger Vehicle Operations - San Bernardino-South Coast County, Annual

8.2 Waste by Land Use**Mitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
General Office Building	18.6	3.7756	0.2231	0.0000	9.3540
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	883.64	179.3709	10.6005	0.0000	444.3839
Total		183.1466	10.8237	0.0000	453.7379

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

Colton Barton Road-Area, Building Operations, and Passenger Vehicle Operations - San Bernardino-South Coast County, Annual

Equipment Type	Number

11.0 Vegetation

Colton Barton Road-Area, Building Operations, and Passenger Vehicle Operations - San Bernardino-South Coast County, Summer

Colton Barton Road-Area, Building Operations, and Passenger Vehicle Operations
San Bernardino-South Coast County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	20.00	1000sqft	0.46	20,000.00	0
Unrefrigerated Warehouse-No Rail	940.04	1000sqft	21.58	940,040.00	0
Other Non-Asphalt Surfaces	827.87	1000sqft	19.01	827,873.00	0
Parking Lot	6.55	Acre	6.55	285,318.00	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)	598.29	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

1.3 User Entered Comments & Non-Default Data

Colton Barton Road-Area, Building Operations, and Passenger Vehicle Operations - San Bernardino-South Coast County, Summer

Project Characteristics - Area, Building Operations, and Passenger Vehicle Operations

Colton Electric Utility not included as option in CalEEMod - CO2 intensity updated for Colton Electric Utility and accounts for compliance with RPS.

Land Use - Based on site plan, project description, and applicant-provided response to information request.

Construction Phase - Operational run only

Off-road Equipment - Operational run only

Off-road Equipment - Project-specific adjustments to the building construction equipment

Trips and VMT - Operational run only

Demolition -

Grading -

Architectural Coating -

Vehicle Trips - Passenger car trip generation rate consistent with the project-specific traffic information

Vehicle Emission Factors -

Vehicle Emission Factors -

Vehicle Emission Factors -

Consumer Products - Updated based on 2017 ARB VOC inventory data and 2017 population estimates based on the State of California's Department of Finance demographic projections were used to estimate a statewide VOC EF for 2017.

Area Coating -

Energy Use -

Water And Wastewater -

Solid Waste -

Construction Off-road Equipment Mitigation -

Area Mitigation - Statewide average

Water Mitigation - Compliance with Green Building Code Standards and California Model Water Efficient Landscape Ordinance

Fleet Mix - Passenger vehicles consisting of LDA, LDT1, LDT2, and MDV

Colton Barton Road-Area, Building Operations, and Passenger Vehicle Operations - San Bernardino-South Coast County, Summer

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	55.00	1.00
tblConsumerProducts	ROG_EF	1.98E-05	1.62E-05
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	LandUseSquareFeet	827,870.00	827,873.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	UsageHours	6.00	0.00
tblProjectCharacteristics	CO2IntensityFactor	702.44	598.29
tblTripsAndVMT	WorkerTripNumber	174.00	0.00
tblVehicleTrips	ST_TR	2.46	0.00
tblVehicleTrips	ST_TR	1.68	1.20
tblVehicleTrips	SU_TR	1.05	0.00
tblVehicleTrips	SU_TR	1.68	1.20
tblVehicleTrips	WD_TR	11.03	0.00
tblVehicleTrips	WD_TR	1.68	1.20

Colton Barton Road-Area, Building Operations, and Passenger Vehicle Operations - San Bernardino-South Coast County, Summer

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	9,209.147 1	0.0000	0.0000	0.0000	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	9,209.147 1	0.0000	0.0000	0.0000	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	9,209.147 1	0.0000	0.0000	0.0000	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	9,209.147 1	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

Colton Barton Road-Area, Building Operations, and Passenger Vehicle Operations - San Bernardino-South Coast County, Summer

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	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

Colton Barton Road-Area, Building Operations, and Passenger Vehicle Operations - San Bernardino-South Coast County, Summer

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	18.4871	1.6800e-003	0.1835	1.0000e-005		6.6000e-004	6.6000e-004		6.6000e-004	6.6000e-004		0.3927	0.3927	1.0400e-003		0.4186
Energy	0.0584	0.5312	0.4462	3.1900e-003		0.0404	0.0404		0.0404	0.0404		637.4476	637.4476	0.0122	0.0117	641.2356
Mobile	1.8366	2.3718	30.6911	0.0996	10.1077	0.0573	10.1650	2.6794	0.0528	2.7322		9,933.5647	9,933.5647	0.2216		9,939.1038
Total	20.3821	2.9047	31.3208	0.1028	10.1077	0.0983	10.2060	2.6794	0.0938	2.7732		10,571.4050	10,571.4050	0.2348	0.0117	10,580.7581

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	18.4868	1.6500e-003	0.1812	1.0000e-005		6.4000e-004	6.4000e-004		6.4000e-004	6.4000e-004		0.3873	0.3873	1.0200e-003		0.4127
Energy	0.0584	0.5312	0.4462	3.1900e-003		0.0404	0.0404		0.0404	0.0404		637.4476	637.4476	0.0122	0.0117	641.2356
Mobile	1.8366	2.3718	30.6911	0.0996	10.1077	0.0573	10.1650	2.6794	0.0528	2.7322		9,933.5647	9,933.5647	0.2216		9,939.1038
Total	20.3818	2.9047	31.3185	0.1028	10.1077	0.0983	10.2060	2.6794	0.0938	2.7732		10,571.3996	10,571.3996	0.2348	0.0117	10,580.7522

Colton Barton Road-Area, Building Operations, and Passenger Vehicle Operations - San Bernardino-South Coast County, Summer

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.01	0.00	0.00	0.02	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.01	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	Architectural Coating	Architectural Coating	2/15/2021	2/15/2021	5	1	

Acres of Grading (Site Preparation Phase): 0**Acres of Grading (Grading Phase): 0****Acres of Paving: 25.56****Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 1,440,060; Non-Residential Outdoor: 480,020; Striped Parking Area: 66,791 (Architectural Coating – sqft)****OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	0	0.00	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
Architectural Coating	0	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Colton Barton Road-Area, Building Operations, and Passenger Vehicle Operations - San Bernardino-South Coast County, Summer

3.2 Architectural Coating - 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					
Archit. Coating	9,209.147 1					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
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
Total	9,209.147 1	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
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	0.0000	0.0000	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

Colton Barton Road-Area, Building Operations, and Passenger Vehicle Operations - San Bernardino-South Coast County, Summer

3.2 Architectural Coating - 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					
Archit. Coating	9,209.147 1					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
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
Total	9,209.147 1	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
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	0.0000	0.0000	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

4.0 Operational Detail - Mobile

Colton Barton Road-Area, Building Operations, and Passenger Vehicle Operations - San Bernardino-South Coast County, Summer

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	1.8366	2.3718	30.6911	0.0996	10.1077	0.0573	10.1650	2.6794	0.0528	2.7322		9,933.5647	9,933.5647	0.2216		9,939.1038
Unmitigated	1.8366	2.3718	30.6911	0.0996	10.1077	0.0573	10.1650	2.6794	0.0528	2.7322		9,933.5647	9,933.5647	0.2216		9,939.1038

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Office Building	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	1,130.00	1,130.00	1,130.00	4,842,874	4,842,874
Total	1,130.00	1,130.00	1,130.00	4,842,874	4,842,874

4.3 Trip Type Information

Colton Barton Road-Area, Building Operations, and Passenger Vehicle Operations - San Bernardino-South Coast County, Summer

Land Use	Miles			Trip %			Trip Purpose %		
	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
General Office Building	16.60	8.40	6.90	33.00	48.00	19.00	77	19	4
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	16.60	8.40	6.90	59.00	0.00	41.00	92	5	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
General Office Building	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	0.624181	0.041086	0.203450	0.131283	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

Colton Barton Road-Area, Building Operations, and Passenger Vehicle Operations - San Bernardino-South Coast County, Summer

	ROG	NOx	CO	SO2	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	0.0584	0.5312	0.4462	3.1900e-003		0.0404	0.0404		0.0404	0.0404		637.4476	637.4476	0.0122	0.0117	641.2356
NaturalGas Unmitigated	0.0584	0.5312	0.4462	3.1900e-003		0.0404	0.0404		0.0404	0.0404		637.4476	637.4476	0.0122	0.0117	641.2356

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					
General Office Building	190.137	2.0500e-003	0.0186	0.0157	1.1000e-004		1.4200e-003	1.4200e-003		1.4200e-003	1.4200e-003		22.3691	22.3691	4.3000e-004	4.1000e-004	22.5020
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	5228.17	0.0564	0.5126	0.4306	3.0800e-003		0.0390	0.0390		0.0390	0.0390		615.0786	615.0786	0.0118	0.0113	618.7337
Total		0.0584	0.5312	0.4462	3.1900e-003		0.0404	0.0404		0.0404	0.0404		637.4476	637.4476	0.0122	0.0117	641.2356

Colton Barton Road-Area, Building Operations, and Passenger Vehicle Operations - San Bernardino-South Coast County, Summer

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					
General Office Building	0.190137	2.0500e-003	0.0186	0.0157	1.1000e-004		1.4200e-003	1.4200e-003		1.4200e-003	1.4200e-003		22.3691	22.3691	4.3000e-004	4.1000e-004	22.5020
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	5.22817	0.0564	0.5126	0.4306	3.0800e-003		0.0390	0.0390		0.0390	0.0390		615.0786	615.0786	0.0118	0.0113	618.7337
Total		0.0584	0.5312	0.4462	3.1900e-003		0.0404	0.0404		0.0404	0.0404		637.4476	637.4476	0.0122	0.0117	641.2356

6.0 Area Detail**6.1 Mitigation Measures Area**

Use Electric Lawnmower

Use Electric Leafblower

Use Electric Chainsaw

Colton Barton Road-Area, Building Operations, and Passenger Vehicle Operations - San Bernardino-South Coast County, Summer

	ROG	NOx	CO	SO2	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	18.4868	1.6500e-003	0.1812	1.0000e-005		6.4000e-004	6.4000e-004		6.4000e-004	6.4000e-004		0.3873	0.3873	1.0200e-003		0.4127
Unmitigated	18.4871	1.6800e-003	0.1835	1.0000e-005		6.6000e-004	6.6000e-004		6.6000e-004	6.6000e-004		0.3927	0.3927	1.0400e-003		0.4186

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	2.5231					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	15.9469					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0171	1.6800e-003	0.1835	1.0000e-005		6.6000e-004	6.6000e-004		6.6000e-004	6.6000e-004		0.3927	0.3927	1.0400e-003		0.4186
Total	18.4871	1.6800e-003	0.1835	1.0000e-005		6.6000e-004	6.6000e-004		6.6000e-004	6.6000e-004		0.3927	0.3927	1.0400e-003		0.4186

Colton Barton Road-Area, Building Operations, and Passenger Vehicle Operations - San Bernardino-South Coast County, Summer

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	2.5231					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	15.9469					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0168	1.6500e-003	0.1812	1.0000e-005		6.4000e-004	6.4000e-004		6.4000e-004	6.4000e-004		0.3873	0.3873	1.0200e-003		0.4127
Total	18.4868	1.6500e-003	0.1812	1.0000e-005		6.4000e-004	6.4000e-004		6.4000e-004	6.4000e-004		0.3873	0.3873	1.0200e-003		0.4127

7.0 Water Detail**7.1 Mitigation Measures Water**

Apply Water Conservation Strategy

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

Colton Barton Road-Area, Building Operations, and Passenger Vehicle Operations - San Bernardino-South Coast County, Summer

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

Colton Barton Road-Area, Building Operations, and Passenger Vehicle Operations - San Bernardino-South Coast County, Winter

Colton Barton Road-Area, Building Operations, and Passenger Vehicle Operations
San Bernardino-South Coast County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	20.00	1000sqft	0.46	20,000.00	0
Unrefrigerated Warehouse-No Rail	940.04	1000sqft	21.58	940,040.00	0
Other Non-Asphalt Surfaces	827.87	1000sqft	19.01	827,873.00	0
Parking Lot	6.55	Acre	6.55	285,318.00	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)	598.29	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

1.3 User Entered Comments & Non-Default Data

Colton Barton Road-Area, Building Operations, and Passenger Vehicle Operations - San Bernardino-South Coast County, Winter

Project Characteristics - Area, Building Operations, and Passenger Vehicle Operations

Colton Electric Utility not included as option in CalEEMod - CO2 intensity updated for Colton Electric Utility and accounts for compliance with RPS.

Land Use - Based on site plan, project description, and applicant-provided response to information request.

Construction Phase - Operational run only

Off-road Equipment - Operational run only

Off-road Equipment - Project-specific adjustments to the building construction equipment

Trips and VMT - Operational run only

Demolition -

Grading -

Architectural Coating -

Vehicle Trips - Passenger car trip generation rate consistent with the project-specific traffic information

Vehicle Emission Factors -

Vehicle Emission Factors -

Vehicle Emission Factors -

Consumer Products - Updated based on 2017 ARB VOC inventory data and 2017 population estimates based on the State of California's Department of Finance demographic projections were used to estimate a statewide VOC EF for 2017.

Area Coating -

Energy Use -

Water And Wastewater -

Solid Waste -

Construction Off-road Equipment Mitigation -

Area Mitigation - Statewide average

Water Mitigation - Compliance with Green Building Code Standards and California Model Water Efficient Landscape Ordinance

Fleet Mix - Passenger vehicles consisting of LDA, LDT1, LDT2, and MDV

Colton Barton Road-Area, Building Operations, and Passenger Vehicle Operations - San Bernardino-South Coast County, Winter

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	55.00	1.00
tblConsumerProducts	ROG_EF	1.98E-05	1.62E-05
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	LandUseSquareFeet	827,870.00	827,873.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	UsageHours	6.00	0.00
tblProjectCharacteristics	CO2IntensityFactor	702.44	598.29
tblTripsAndVMT	WorkerTripNumber	174.00	0.00
tblVehicleTrips	ST_TR	2.46	0.00
tblVehicleTrips	ST_TR	1.68	1.20
tblVehicleTrips	SU_TR	1.05	0.00
tblVehicleTrips	SU_TR	1.68	1.20
tblVehicleTrips	WD_TR	11.03	0.00
tblVehicleTrips	WD_TR	1.68	1.20

Colton Barton Road-Area, Building Operations, and Passenger Vehicle Operations - San Bernardino-South Coast County, Winter

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	9,209.147 1	0.0000	0.0000	0.0000	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	9,209.147 1	0.0000	0.0000	0.0000	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	9,209.147 1	0.0000	0.0000	0.0000	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	9,209.147 1	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

Colton Barton Road-Area, Building Operations, and Passenger Vehicle Operations - San Bernardino-South Coast County, Winter

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	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

Colton Barton Road-Area, Building Operations, and Passenger Vehicle Operations - San Bernardino-South Coast County, Winter

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	18.4871	1.6800e-003	0.1835	1.0000e-005		6.6000e-004	6.6000e-004		6.6000e-004	6.6000e-004		0.3927	0.3927	1.0400e-003		0.4186
Energy	0.0584	0.5312	0.4462	3.1900e-003		0.0404	0.0404		0.0404	0.0404		637.4476	637.4476	0.0122	0.0117	641.2356
Mobile	1.5060	2.4842	25.2118	0.0894	10.1077	0.0573	10.1650	2.6794	0.0528	2.7322		8,915.2470	8,915.2470	0.1953		8,920.1287
Total	20.0515	3.0171	25.8415	0.0926	10.1077	0.0983	10.2060	2.6794	0.0938	2.7732		9,553.0874	9,553.0874	0.2085	0.0117	9,561.7829

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	18.4868	1.6500e-003	0.1812	1.0000e-005		6.4000e-004	6.4000e-004		6.4000e-004	6.4000e-004		0.3873	0.3873	1.0200e-003		0.4127
Energy	0.0584	0.5312	0.4462	3.1900e-003		0.0404	0.0404		0.0404	0.0404		637.4476	637.4476	0.0122	0.0117	641.2356
Mobile	1.5060	2.4842	25.2118	0.0894	10.1077	0.0573	10.1650	2.6794	0.0528	2.7322		8,915.2470	8,915.2470	0.1953		8,920.1287
Total	20.0512	3.0171	25.8392	0.0926	10.1077	0.0983	10.2060	2.6794	0.0938	2.7732		9,553.0819	9,553.0819	0.2085	0.0117	9,561.7771

Colton Barton Road-Area, Building Operations, and Passenger Vehicle Operations - San Bernardino-South Coast County, Winter

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.01	0.00	0.00	0.02	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.01	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	Architectural Coating	Architectural Coating	2/15/2021	2/15/2021	5	1	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 25.56

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 1,440,060; Non-Residential Outdoor: 480,020; Striped Parking Area: 66,791 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	0	0.00	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
Architectural Coating	0	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Colton Barton Road-Area, Building Operations, and Passenger Vehicle Operations - San Bernardino-South Coast County, Winter

3.2 Architectural Coating - 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					
Archit. Coating	9,209.147 1					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
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
Total	9,209.147 1	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
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	0.0000	0.0000	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

Colton Barton Road-Area, Building Operations, and Passenger Vehicle Operations - San Bernardino-South Coast County, Winter

3.2 Architectural Coating - 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					
Archit. Coating	9,209.147 1					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
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
Total	9,209.147 1	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
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	0.0000	0.0000	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

4.0 Operational Detail - Mobile

Colton Barton Road-Area, Building Operations, and Passenger Vehicle Operations - San Bernardino-South Coast County, Winter

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	1.5060	2.4842	25.2118	0.0894	10.1077	0.0573	10.1650	2.6794	0.0528	2.7322		8,915.247 0	8,915.247 0	0.1953		8,920.128 7
Unmitigated	1.5060	2.4842	25.2118	0.0894	10.1077	0.0573	10.1650	2.6794	0.0528	2.7322		8,915.247 0	8,915.247 0	0.1953		8,920.128 7

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Office Building	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	1,130.00	1,130.00	1,130.00	4,842,874	4,842,874
Total	1,130.00	1,130.00	1,130.00	4,842,874	4,842,874

4.3 Trip Type Information

Colton Barton Road-Area, Building Operations, and Passenger Vehicle Operations - San Bernardino-South Coast County, Winter

Land Use	Miles			Trip %			Trip Purpose %		
	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
General Office Building	16.60	8.40	6.90	33.00	48.00	19.00	77	19	4
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	16.60	8.40	6.90	59.00	0.00	41.00	92	5	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
General Office Building	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	0.624181	0.041086	0.203450	0.131283	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

Colton Barton Road-Area, Building Operations, and Passenger Vehicle Operations - San Bernardino-South Coast County, Winter

	ROG	NOx	CO	SO2	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	0.0584	0.5312	0.4462	3.1900e-003		0.0404	0.0404		0.0404	0.0404		637.4476	637.4476	0.0122	0.0117	641.2356
NaturalGas Unmitigated	0.0584	0.5312	0.4462	3.1900e-003		0.0404	0.0404		0.0404	0.0404		637.4476	637.4476	0.0122	0.0117	641.2356

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					
General Office Building	190.137	2.0500e-003	0.0186	0.0157	1.1000e-004		1.4200e-003	1.4200e-003		1.4200e-003	1.4200e-003		22.3691	22.3691	4.3000e-004	4.1000e-004	22.5020
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	5228.17	0.0564	0.5126	0.4306	3.0800e-003		0.0390	0.0390		0.0390	0.0390		615.0786	615.0786	0.0118	0.0113	618.7337
Total		0.0584	0.5312	0.4462	3.1900e-003		0.0404	0.0404		0.0404	0.0404		637.4476	637.4476	0.0122	0.0117	641.2356

Colton Barton Road-Area, Building Operations, and Passenger Vehicle Operations - San Bernardino-South Coast County, Winter

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					
General Office Building	0.190137	2.0500e-003	0.0186	0.0157	1.1000e-004		1.4200e-003	1.4200e-003		1.4200e-003	1.4200e-003		22.3691	22.3691	4.3000e-004	4.1000e-004	22.5020
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	5.22817	0.0564	0.5126	0.4306	3.0800e-003		0.0390	0.0390		0.0390	0.0390		615.0786	615.0786	0.0118	0.0113	618.7337
Total		0.0584	0.5312	0.4462	3.1900e-003		0.0404	0.0404		0.0404	0.0404		637.4476	637.4476	0.0122	0.0117	641.2356

6.0 Area Detail**6.1 Mitigation Measures Area**

Use Electric Lawnmower

Use Electric Leafblower

Use Electric Chainsaw

Colton Barton Road-Area, Building Operations, and Passenger Vehicle Operations - San Bernardino-South Coast County, Winter

	ROG	NOx	CO	SO2	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	18.4868	1.6500e-003	0.1812	1.0000e-005		6.4000e-004	6.4000e-004		6.4000e-004	6.4000e-004		0.3873	0.3873	1.0200e-003		0.4127
Unmitigated	18.4871	1.6800e-003	0.1835	1.0000e-005		6.6000e-004	6.6000e-004		6.6000e-004	6.6000e-004		0.3927	0.3927	1.0400e-003		0.4186

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	2.5231					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	15.9469					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0171	1.6800e-003	0.1835	1.0000e-005		6.6000e-004	6.6000e-004		6.6000e-004	6.6000e-004		0.3927	0.3927	1.0400e-003		0.4186
Total	18.4871	1.6800e-003	0.1835	1.0000e-005		6.6000e-004	6.6000e-004		6.6000e-004	6.6000e-004		0.3927	0.3927	1.0400e-003		0.4186

Colton Barton Road-Area, Building Operations, and Passenger Vehicle Operations - San Bernardino-South Coast County, Winter

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	2.5231					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	15.9469					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0168	1.6500e-003	0.1812	1.0000e-005		6.4000e-004	6.4000e-004		6.4000e-004	6.4000e-004		0.3873	0.3873	1.0200e-003		0.4127
Total	18.4868	1.6500e-003	0.1812	1.0000e-005		6.4000e-004	6.4000e-004		6.4000e-004	6.4000e-004		0.3873	0.3873	1.0200e-003		0.4127

7.0 Water Detail**7.1 Mitigation Measures Water**

Apply Water Conservation Strategy

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

Colton Barton Road-Area, Building Operations, and Passenger Vehicle Operations - San Bernardino-South Coast County, Winter

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

Colton Barton Road-Truck Operations - San Bernardino-South Coast County, Annual

Colton Barton Road-Truck Operations

San Bernardino-South Coast County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	20.00	1000sqft	0.46	20,000.00	0
Unrefrigerated Warehouse-No Rail	940.04	1000sqft	21.58	940,040.00	0
Parking Lot	6.55	Acre	6.55	285,318.00	0
Other Non-Asphalt Surfaces	827.87	1000sqft	19.01	827,873.00	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)	598.29	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

1.3 User Entered Comments & Non-Default Data

Colton Barton Road-Truck Operations - San Bernardino-South Coast County, Annual

Project Characteristics - Truck Operations (truck only run)

Colton Electric Utility not included as option in CalEEMod - CO2 intensity updated for Colton Electric Utility and accounts for compliance with RPS.

Land Use - Based on site plan, project description, and applicant-provided response for information response.

Construction Phase - Operational run only - zeroed out construction only parameters

Off-road Equipment - Operational run only

Trips and VMT - Operational run only

Architectural Coating - Operational run only

Vehicle Trips - Truck trip generation rate consistent with the project-specific traffic report
40-mile trip length for trucks

Fleet Mix - Truck operational fleet mix consistent with project-specific traffic report

Consumer Products - Operational truck only run

Area Coating - Operational truck only run

Energy Use - Operational truck only run

Landscape Equipment - Operational truck only run

Water And Wastewater - Operational truck only run - water and wastewater in a separate run

Solid Waste - Operational truck only run 0

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	100.00	0.00
tblArchitecturalCoating	EF_Nonresidential_Interior	100.00	0.00
tblAreaCoating	ReapplicationRatePercent	10	0
tblConstructionPhase	NumDays	55.00	0.00
tblConstructionPhase	PhaseEndDate	4/30/2021	2/14/2021
tblConsumerProducts	ROG_EF	1.98E-05	0
tblEnergyUse	LightingElect	3.66	0.00
tblEnergyUse	LightingElect	0.35	0.00
tblEnergyUse	LightingElect	1.17	0.00
tblEnergyUse	NT24E	2.79	0.00

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tblEnergyUse	NT24E	0.82	0.00
tblEnergyUse	NT24NG	0.03	0.00
tblEnergyUse	T24E	3.07	0.00
tblEnergyUse	T24E	0.37	0.00
tblEnergyUse	T24NG	3.47	0.00
tblEnergyUse	T24NG	2.00	0.00
tblFleetMix	HHD	0.06	0.62
tblFleetMix	LDA	0.55	0.00
tblFleetMix	LDT1	0.04	0.00
tblFleetMix	LDT2	0.18	0.00
tblFleetMix	LHD1	0.02	0.13
tblFleetMix	LHD2	5.1010e-003	0.04
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
tblLandscapeEquipment	NumberSummerDays	250	1
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblProjectCharacteristics	CO2IntensityFactor	702.44	598.29
tblSolidWaste	SolidWasteGenerationRate	18.60	0.00
tblSolidWaste	SolidWasteGenerationRate	883.64	0.00
tblTripsAndVMT	WorkerTripNumber	174.00	0.00
tblVehicleTrips	CC_TL	8.40	40.00
tblVehicleTrips	CNW_TL	6.90	40.00

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tblVehicleTrips	CW_TL	16.60	40.00
tblVehicleTrips	ST_TR	2.46	0.00
tblVehicleTrips	ST_TR	1.68	0.23
tblVehicleTrips	SU_TR	1.05	0.00
tblVehicleTrips	SU_TR	1.68	0.23
tblVehicleTrips	WD_TR	11.03	0.00
tblVehicleTrips	WD_TR	1.68	0.23
tblWater	IndoorWaterUseRate	3,554,674.96	0.00
tblWater	IndoorWaterUseRate	217,384,250.00	0.00
tblWater	OutdoorWaterUseRate	2,178,671.75	0.00

2.0 Emissions Summary

Colton Barton Road-Truck Operations - San Bernardino-South Coast County, Annual

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	N2O	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

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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	0.0720	0.0000	9.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.8000e-004	1.8000e-004	0.0000	0.0000	1.9000e-004
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	0.3037	9.6102	2.2572	0.0423	1.2999	0.0354	1.3352	0.3665	0.0338	0.4003	0.0000	4,053.6796	4,053.6796	0.1398	0.0000	4,057.1753
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	0.3757	9.6102	2.2572	0.0423	1.2999	0.0354	1.3352	0.3665	0.0338	0.4003	0.0000	4,053.6798	4,053.6798	0.1398	0.0000	4,057.1755

Colton Barton Road-Truck Operations - San Bernardino-South Coast County, Annual

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	0.0720	0.0000	9.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.8000e-004	1.8000e-004	0.0000	0.0000	1.9000e-004
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	0.3037	9.6102	2.2572	0.0423	1.2999	0.0354	1.3352	0.3665	0.0338	0.4003	0.0000	4,053.6796	4,053.6796	0.1398	0.0000	4,057.1753
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	0.3757	9.6102	2.2572	0.0423	1.2999	0.0354	1.3352	0.3665	0.0338	0.4003	0.0000	4,053.6798	4,053.6798	0.1398	0.0000	4,057.1755

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	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	Architectural Coating	Architectural Coating	2/15/2021	2/14/2021	5	0	

Acres of Grading (Site Preparation Phase): 0

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Acres of Grading (Grading Phase): 0**Acres of Paving: 25.56****Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 1,440,060; Non-Residential Outdoor: 480,020; Striped Parking Area: 66,791 (Architectural Coating – sqft)****OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	0	6.00	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
Architectural Coating	1	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

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3.2 Architectural Coating - 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					
Archit. Coating	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
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

Colton Barton Road-Truck Operations - San Bernardino-South Coast County, Annual

3.2 Architectural Coating - 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					
Archit. Coating	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
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

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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	0.3037	9.6102	2.2572	0.0423	1.2999	0.0354	1.3352	0.3665	0.0338	0.4003	0.0000	4,053.6796	4,053.6796	0.1398	0.0000	4,057.1753
Unmitigated	0.3037	9.6102	2.2572	0.0423	1.2999	0.0354	1.3352	0.3665	0.0338	0.4003	0.0000	4,053.6796	4,053.6796	0.1398	0.0000	4,057.1753

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Office Building	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	218.00	218.00	218.00	2,960,067	2,960,067
Total	218.00	218.00	218.00	2,960,067	2,960,067

4.3 Trip Type Information

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Land Use	Miles			Trip %			Trip Purpose %		
	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
General Office Building	16.60	8.40	6.90	33.00	48.00	19.00	77	19	4
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	40.00	40.00	40.00	59.00	0.00	41.00	92	5	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
General Office Building	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	0.125527	0.039611	0.211009	0.623853	0.000000	0.000000	0.000000	0.000000	0.000000

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

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	ROG	NOx	CO	SO2	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					
General Office Building	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

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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					
General Office Building	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

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5.3 Energy by Land Use - Electricity**Unmitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
General Office Building	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

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5.3 Energy by Land Use - Electricity**Mitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
General Office Building	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**

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	ROG	NOx	CO	SO2	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	0.0720	0.0000	9.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.8000e-004	1.8000e-004	0.0000	0.0000	1.9000e-004
Unmitigated	0.0720	0.0000	9.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.8000e-004	1.8000e-004	0.0000	0.0000	1.9000e-004

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	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0720					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	1.0000e-005	0.0000	9.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.8000e-004	1.8000e-004	0.0000	0.0000	1.9000e-004
Total	0.0720	0.0000	9.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.8000e-004	1.8000e-004	0.0000	0.0000	1.9000e-004

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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	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0720					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	1.0000e-005	0.0000	9.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.8000e-004	1.8000e-004	0.0000	0.0000	1.9000e-004
Total	0.0720	0.0000	9.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.8000e-004	1.8000e-004	0.0000	0.0000	1.9000e-004

7.0 Water Detail**7.1 Mitigation Measures Water**

Colton Barton Road-Truck Operations - San Bernardino-South Coast County, Annual

	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			
General Office Building	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

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7.2 Water by Land Use**Mitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
General Office Building	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**

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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			
General Office Building	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

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8.2 Waste by Land Use**Mitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
General Office Building	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

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Equipment Type	Number

11.0 Vegetation

Colton Barton Road-Truck Operations - San Bernardino-South Coast County, Summer

Colton Barton Road-Truck Operations

San Bernardino-South Coast County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	20.00	1000sqft	0.46	20,000.00	0
Unrefrigerated Warehouse-No Rail	940.04	1000sqft	21.58	940,040.00	0
Parking Lot	6.55	Acre	6.55	285,318.00	0
Other Non-Asphalt Surfaces	827.87	1000sqft	19.01	827,873.00	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)	598.29	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

1.3 User Entered Comments & Non-Default Data

Colton Barton Road-Truck Operations - San Bernardino-South Coast County, Summer

Project Characteristics - Truck Operations (truck only run)

Colton Electric Utility not included as option in CalEEMod - CO2 intensity updated for Colton Electric Utility and accounts for compliance with RPS.

Land Use - Based on site plan, project description, and applicant-provided response for information response.

Construction Phase - Operational run only - zeroed out construction only parameters

Off-road Equipment - Operational run only

Trips and VMT - Operational run only

Architectural Coating - Operational run only

Vehicle Trips - Truck trip generation rate consistent with the project-specific traffic report
40-mile trip length for trucks

Fleet Mix - Truck operational fleet mix consistent with project-specific traffic report

Consumer Products - Operational truck only run

Area Coating - Operational truck only run

Energy Use - Operational truck only run

Landscape Equipment - Operational truck only run

Water And Wastewater - Operational truck only run - water and wastewater in a separate run

Solid Waste - Operational truck only run 0

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	100.00	0.00
tblArchitecturalCoating	EF_Nonresidential_Interior	100.00	0.00
tblAreaCoating	ReapplicationRatePercent	10	0
tblConstructionPhase	NumDays	55.00	0.00
tblConstructionPhase	PhaseEndDate	4/30/2021	2/14/2021
tblConsumerProducts	ROG_EF	1.98E-05	0
tblEnergyUse	LightingElect	3.66	0.00
tblEnergyUse	LightingElect	0.35	0.00
tblEnergyUse	LightingElect	1.17	0.00
tblEnergyUse	NT24E	2.79	0.00

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tblEnergyUse	NT24E	0.82	0.00
tblEnergyUse	NT24NG	0.03	0.00
tblEnergyUse	T24E	3.07	0.00
tblEnergyUse	T24E	0.37	0.00
tblEnergyUse	T24NG	3.47	0.00
tblEnergyUse	T24NG	2.00	0.00
tblFleetMix	HHD	0.06	0.62
tblFleetMix	LDA	0.55	0.00
tblFleetMix	LDT1	0.04	0.00
tblFleetMix	LDT2	0.18	0.00
tblFleetMix	LHD1	0.02	0.13
tblFleetMix	LHD2	5.1010e-003	0.04
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
tblLandscapeEquipment	NumberSummerDays	250	1
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblProjectCharacteristics	CO2IntensityFactor	702.44	598.29
tblSolidWaste	SolidWasteGenerationRate	18.60	0.00
tblSolidWaste	SolidWasteGenerationRate	883.64	0.00
tblTripsAndVMT	WorkerTripNumber	174.00	0.00
tblVehicleTrips	CC_TL	8.40	40.00
tblVehicleTrips	CNW_TL	6.90	40.00

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tblVehicleTrips	CW_TL	16.60	40.00
tblVehicleTrips	ST_TR	2.46	0.00
tblVehicleTrips	ST_TR	1.68	0.23
tblVehicleTrips	SU_TR	1.05	0.00
tblVehicleTrips	SU_TR	1.68	0.23
tblVehicleTrips	WD_TR	11.03	0.00
tblVehicleTrips	WD_TR	1.68	0.23
tblWater	IndoorWaterUseRate	3,554,674.96	0.00
tblWater	IndoorWaterUseRate	217,384,250.00	0.00
tblWater	OutdoorWaterUseRate	2,178,671.75	0.00

2.0 Emissions Summary

Colton Barton Road-Truck Operations - San Bernardino-South Coast County, Summer

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	N2O	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

Colton Barton Road-Truck Operations - San Bernardino-South Coast County, Summer

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	0.4114	1.6800e-003	0.1835	1.0000e-005		6.6000e-004	6.6000e-004		6.6000e-004	6.6000e-004		0.3927	0.3927	1.0400e-003		0.4186
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	1.6556	50.8938	12.1502	0.2339	7.2599	0.1940	7.4539	2.0425	0.1855	2.2280		24,705.3875	24,705.3875	0.8264		24,726.0469
Total	2.0670	50.8955	12.3337	0.2339	7.2599	0.1947	7.4546	2.0425	0.1862	2.2287		24,705.7803	24,705.7803	0.8274	0.0000	24,726.4656

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	0.4114	1.6800e-003	0.1835	1.0000e-005		6.6000e-004	6.6000e-004		6.6000e-004	6.6000e-004		0.3927	0.3927	1.0400e-003		0.4186
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	1.6556	50.8938	12.1502	0.2339	7.2599	0.1940	7.4539	2.0425	0.1855	2.2280		24,705.3875	24,705.3875	0.8264		24,726.0469
Total	2.0670	50.8955	12.3337	0.2339	7.2599	0.1947	7.4546	2.0425	0.1862	2.2287		24,705.7803	24,705.7803	0.8274	0.0000	24,726.4656

Colton Barton Road-Truck Operations - San Bernardino-South Coast County, Summer

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	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	Architectural Coating	Architectural Coating	2/15/2021	2/14/2021	5	0	

Acres of Grading (Site Preparation Phase): 0**Acres of Grading (Grading Phase): 0****Acres of Paving: 25.56****Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 1,440,060; Non-Residential Outdoor: 480,020; Striped Parking Area: 66,791 (Architectural Coating – sqft)****OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	0	6.00	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
Architectural Coating	1	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Colton Barton Road-Truck Operations - San Bernardino-South Coast County, Summer

3.2 Architectural Coating - 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					
Archit. Coating	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
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

Colton Barton Road-Truck Operations - San Bernardino-South Coast County, Summer

3.2 Architectural Coating - 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					
Archit. Coating	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
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

Colton Barton Road-Truck Operations - San Bernardino-South Coast County, Summer

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	1.6556	50.8938	12.1502	0.2339	7.2599	0.1940	7.4539	2.0425	0.1855	2.2280		24,705.3875	24,705.3875	0.8264		24,726.0469
Unmitigated	1.6556	50.8938	12.1502	0.2339	7.2599	0.1940	7.4539	2.0425	0.1855	2.2280		24,705.3875	24,705.3875	0.8264		24,726.0469

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Office Building	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	218.00	218.00	218.00	2,960,067	2,960,067
Total	218.00	218.00	218.00	2,960,067	2,960,067

4.3 Trip Type Information

Colton Barton Road-Truck Operations - San Bernardino-South Coast County, Summer

Land Use	Miles			Trip %			Trip Purpose %		
	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
General Office Building	16.60	8.40	6.90	33.00	48.00	19.00	77	19	4
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	40.00	40.00	40.00	59.00	0.00	41.00	92	5	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
General Office Building	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	0.125527	0.039611	0.211009	0.623853	0.000000	0.000000	0.000000	0.000000	0.000000

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Colton Barton Road-Truck Operations - San Bernardino-South Coast County, Summer

	ROG	NOx	CO	SO2	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					
General Office Building	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

Colton Barton Road-Truck Operations - San Bernardino-South Coast County, Summer

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					
General Office Building	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**

Colton Barton Road-Truck Operations - San Bernardino-South Coast County, Summer

	ROG	NOx	CO	SO2	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	0.4114	1.6800e-003	0.1835	1.0000e-005		6.6000e-004	6.6000e-004		6.6000e-004	6.6000e-004		0.3927	0.3927	1.0400e-003		0.4186
Unmitigated	0.4114	1.6800e-003	0.1835	1.0000e-005		6.6000e-004	6.6000e-004		6.6000e-004	6.6000e-004		0.3927	0.3927	1.0400e-003		0.4186

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	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.3943					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0171	1.6800e-003	0.1835	1.0000e-005		6.6000e-004	6.6000e-004		6.6000e-004	6.6000e-004		0.3927	0.3927	1.0400e-003		0.4186
Total	0.4114	1.6800e-003	0.1835	1.0000e-005		6.6000e-004	6.6000e-004		6.6000e-004	6.6000e-004		0.3927	0.3927	1.0400e-003		0.4186

Colton Barton Road-Truck Operations - San Bernardino-South Coast County, Summer

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	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.3943					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0171	1.6800e-003	0.1835	1.0000e-005		6.6000e-004	6.6000e-004		6.6000e-004	6.6000e-004		0.3927	0.3927	1.0400e-003		0.4186
Total	0.4114	1.6800e-003	0.1835	1.0000e-005		6.6000e-004	6.6000e-004		6.6000e-004	6.6000e-004		0.3927	0.3927	1.0400e-003		0.4186

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**

Colton Barton Road-Truck Operations - San Bernardino-South Coast County, Summer

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

Colton Barton Road-Truck Operations - San Bernardino-South Coast County, Winter

Colton Barton Road-Truck Operations

San Bernardino-South Coast County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	20.00	1000sqft	0.46	20,000.00	0
Unrefrigerated Warehouse-No Rail	940.04	1000sqft	21.58	940,040.00	0
Parking Lot	6.55	Acre	6.55	285,318.00	0
Other Non-Asphalt Surfaces	827.87	1000sqft	19.01	827,873.00	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)	598.29	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

1.3 User Entered Comments & Non-Default Data

Colton Barton Road-Truck Operations - San Bernardino-South Coast County, Winter

Project Characteristics - Truck Operations (truck only run)

Colton Electric Utility not included as option in CalEEMod - CO2 intensity updated for Colton Electric Utility and accounts for compliance with RPS.

Land Use - Based on site plan, project description, and applicant-provided response for information response.

Construction Phase - Operational run only - zeroed out construction only parameters

Off-road Equipment - Operational run only

Trips and VMT - Operational run only

Architectural Coating - Operational run only

Vehicle Trips - Truck trip generation rate consistent with the project-specific traffic report
40-mile trip length for trucks

Fleet Mix - Truck operational fleet mix consistent with project-specific traffic report

Consumer Products - Operational truck only run

Area Coating - Operational truck only run

Energy Use - Operational truck only run

Landscape Equipment - Operational truck only run

Water And Wastewater - Operational truck only run - water and wastewater in a separate run

Solid Waste - Operational truck only run 0

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	100.00	0.00
tblArchitecturalCoating	EF_Nonresidential_Interior	100.00	0.00
tblAreaCoating	ReapplicationRatePercent	10	0
tblConstructionPhase	NumDays	55.00	0.00
tblConstructionPhase	PhaseEndDate	4/30/2021	2/14/2021
tblConsumerProducts	ROG_EF	1.98E-05	0
tblEnergyUse	LightingElect	3.66	0.00
tblEnergyUse	LightingElect	0.35	0.00
tblEnergyUse	LightingElect	1.17	0.00
tblEnergyUse	NT24E	2.79	0.00

Colton Barton Road-Truck Operations - San Bernardino-South Coast County, Winter

tblEnergyUse	NT24E	0.82	0.00
tblEnergyUse	NT24NG	0.03	0.00
tblEnergyUse	T24E	3.07	0.00
tblEnergyUse	T24E	0.37	0.00
tblEnergyUse	T24NG	3.47	0.00
tblEnergyUse	T24NG	2.00	0.00
tblFleetMix	HHD	0.06	0.62
tblFleetMix	LDA	0.55	0.00
tblFleetMix	LDT1	0.04	0.00
tblFleetMix	LDT2	0.18	0.00
tblFleetMix	LHD1	0.02	0.13
tblFleetMix	LHD2	5.1010e-003	0.04
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
tblLandscapeEquipment	NumberSummerDays	250	1
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblProjectCharacteristics	CO2IntensityFactor	702.44	598.29
tblSolidWaste	SolidWasteGenerationRate	18.60	0.00
tblSolidWaste	SolidWasteGenerationRate	883.64	0.00
tblTripsAndVMT	WorkerTripNumber	174.00	0.00
tblVehicleTrips	CC_TL	8.40	40.00
tblVehicleTrips	CNW_TL	6.90	40.00

Colton Barton Road-Truck Operations - San Bernardino-South Coast County, Winter

tblVehicleTrips	CW_TL	16.60	40.00
tblVehicleTrips	ST_TR	2.46	0.00
tblVehicleTrips	ST_TR	1.68	0.23
tblVehicleTrips	SU_TR	1.05	0.00
tblVehicleTrips	SU_TR	1.68	0.23
tblVehicleTrips	WD_TR	11.03	0.00
tblVehicleTrips	WD_TR	1.68	0.23
tblWater	IndoorWaterUseRate	3,554,674.96	0.00
tblWater	IndoorWaterUseRate	217,384,250.00	0.00
tblWater	OutdoorWaterUseRate	2,178,671.75	0.00

2.0 Emissions Summary

Colton Barton Road-Truck Operations - San Bernardino-South Coast County, Winter

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	N2O	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

Colton Barton Road-Truck Operations - San Bernardino-South Coast County, Winter

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	0.4114	1.6800e-003	0.1835	1.0000e-005		6.6000e-004	6.6000e-004		6.6000e-004	6.6000e-004		0.3927	0.3927	1.0400e-003		0.4186
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	1.6909	51.9377	12.7893	0.2311	7.2599	0.1951	7.4550	2.0425	0.1866	2.2291		24,409.1840	24,409.1840	0.8766		24,431.0983
Total	2.1023	51.9394	12.9728	0.2311	7.2599	0.1958	7.4557	2.0425	0.1872	2.2297		24,409.5767	24,409.5767	0.8776	0.0000	24,431.5170

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	0.4114	1.6800e-003	0.1835	1.0000e-005		6.6000e-004	6.6000e-004		6.6000e-004	6.6000e-004		0.3927	0.3927	1.0400e-003		0.4186
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	1.6909	51.9377	12.7893	0.2311	7.2599	0.1951	7.4550	2.0425	0.1866	2.2291		24,409.1840	24,409.1840	0.8766		24,431.0983
Total	2.1023	51.9394	12.9728	0.2311	7.2599	0.1958	7.4557	2.0425	0.1872	2.2297		24,409.5767	24,409.5767	0.8776	0.0000	24,431.5170

Colton Barton Road-Truck Operations - San Bernardino-South Coast County, Winter

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	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	Architectural Coating	Architectural Coating	2/15/2021	2/14/2021	5	0	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 25.56

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 1,440,060; Non-Residential Outdoor: 480,020; Striped Parking Area: 66,791 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	0	6.00	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
Architectural Coating	1	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Colton Barton Road-Truck Operations - San Bernardino-South Coast County, Winter

3.2 Architectural Coating - 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					
Archit. Coating	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
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

Colton Barton Road-Truck Operations - San Bernardino-South Coast County, Winter

3.2 Architectural Coating - 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					
Archit. Coating	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
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

Colton Barton Road-Truck Operations - San Bernardino-South Coast County, Winter

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	1.6909	51.9377	12.7893	0.2311	7.2599	0.1951	7.4550	2.0425	0.1866	2.2291		24,409.1840	24,409.1840	0.8766		24,431.0983
Unmitigated	1.6909	51.9377	12.7893	0.2311	7.2599	0.1951	7.4550	2.0425	0.1866	2.2291		24,409.1840	24,409.1840	0.8766		24,431.0983

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Office Building	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	218.00	218.00	218.00	2,960,067	2,960,067
Total	218.00	218.00	218.00	2,960,067	2,960,067

4.3 Trip Type Information

Colton Barton Road-Truck Operations - San Bernardino-South Coast County, Winter

Land Use	Miles			Trip %			Trip Purpose %		
	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
General Office Building	16.60	8.40	6.90	33.00	48.00	19.00	77	19	4
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	40.00	40.00	40.00	59.00	0.00	41.00	92	5	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
General Office Building	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	0.125527	0.039611	0.211009	0.623853	0.000000	0.000000	0.000000	0.000000	0.000000

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Colton Barton Road-Truck Operations - San Bernardino-South Coast County, Winter

	ROG	NOx	CO	SO2	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					
General Office Building	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

Colton Barton Road-Truck Operations - San Bernardino-South Coast County, Winter

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					
General Office Building	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**

Colton Barton Road-Truck Operations - San Bernardino-South Coast County, Winter

	ROG	NOx	CO	SO2	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	0.4114	1.6800e-003	0.1835	1.0000e-005		6.6000e-004	6.6000e-004		6.6000e-004	6.6000e-004		0.3927	0.3927	1.0400e-003		0.4186
Unmitigated	0.4114	1.6800e-003	0.1835	1.0000e-005		6.6000e-004	6.6000e-004		6.6000e-004	6.6000e-004		0.3927	0.3927	1.0400e-003		0.4186

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	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.3943					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0171	1.6800e-003	0.1835	1.0000e-005		6.6000e-004	6.6000e-004		6.6000e-004	6.6000e-004		0.3927	0.3927	1.0400e-003		0.4186
Total	0.4114	1.6800e-003	0.1835	1.0000e-005		6.6000e-004	6.6000e-004		6.6000e-004	6.6000e-004		0.3927	0.3927	1.0400e-003		0.4186

Colton Barton Road-Truck Operations - San Bernardino-South Coast County, Winter

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	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.3943					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0171	1.6800e-003	0.1835	1.0000e-005		6.6000e-004	6.6000e-004		6.6000e-004	6.6000e-004		0.3927	0.3927	1.0400e-003		0.4186
Total	0.4114	1.6800e-003	0.1835	1.0000e-005		6.6000e-004	6.6000e-004		6.6000e-004	6.6000e-004		0.3927	0.3927	1.0400e-003		0.4186

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**

Colton Barton Road-Truck Operations - San Bernardino-South Coast County, Winter

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

Area, Building Operations, and Passenger Vehicle LST Operations - San Bernardino-South Coast County, Summer

Area, Building Operations, and Passenger Vehicle LST Operations San Bernardino-South Coast County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	20.00	1000sqft	0.46	20,000.00	0
Unrefrigerated Warehouse-No Rail	940.04	1000sqft	21.58	940,040.00	0
Other Non-Asphalt Surfaces	827.87	1000sqft	19.01	827,873.00	0
Parking Lot	6.55	Acre	6.55	285,318.00	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)	598.29	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

1.3 User Entered Comments & Non-Default Data

Area, Building Operations, and Passenger Vehicle LST Operations - San Bernardino-South Coast County, Summer

Project Characteristics - Colton Barton Road-Area, Building Operations, and Passenger Vehicle Operations

Colton Electric Utility not included as option in CalEEMod - CO2 intensity updated for Colton Electric Utility and accounts for compliance with RPS.

Land Use - Based on site plan, project description, and applicant-provided response to information request.

Construction Phase - Operational run only

Off-road Equipment - Operational run only

Off-road Equipment - Project-specific adjustments to the building construction equipment

Trips and VMT - Operational run only

Demolition -

Grading -

Architectural Coating -

Vehicle Trips - Passenger car trip generation rate consistent with the project-specific traffic information

Trip lengths updated to 0.1 mile to account for on-site emissions from mobile sources as a conservative estimate for LST analysis.

Vehicle Emission Factors -

Vehicle Emission Factors -

Vehicle Emission Factors -

Consumer Products - Updated based on 2017 ARB VOC inventory data and 2017 population estimates based on the State of California's Department of Finance demographic projections were used to estimate a statewide VOC EF for 2017.

Area Coating -

Energy Use -

Water And Wastewater -

Solid Waste -

Construction Off-road Equipment Mitigation -

Area Mitigation - Statewide average

Water Mitigation - Compliance with Green Building Code Standards and California Model Water Efficient Landscape Ordinance

Fleet Mix - Passenger vehicles consisting of LDA, LDT1, LDT2, and MDV

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	55.00	1.00
tblConsumerProducts	ROG_EF	1.98E-05	1.62E-05

Area, Building Operations, and Passenger Vehicle LST Operations - San Bernardino-South Coast County, Summer

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	LandUseSquareFeet	827,870.00	827,873.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	UsageHours	6.00	0.00
tblProjectCharacteristics	CO2IntensityFactor	702.44	598.29
tblTripsAndVMT	WorkerTripNumber	174.00	0.00
tblVehicleTrips	CC_TL	8.40	0.10
tblVehicleTrips	CNW_TL	6.90	0.10
tblVehicleTrips	CW_TL	16.60	0.10
tblVehicleTrips	DV_TP	5.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PR_TP	92.00	100.00
tblVehicleTrips	ST_TR	2.46	0.00
tblVehicleTrips	ST_TR	1.68	1.20
tblVehicleTrips	SU_TR	1.05	0.00

Area, Building Operations, and Passenger Vehicle LST Operations - San Bernardino-South Coast County, Summer

tblVehicleTrips	SU_TR	1.68	1.20
tblVehicleTrips	WD_TR	11.03	0.00
tblVehicleTrips	WD_TR	1.68	1.20

2.0 Emissions Summary

Area, Building Operations, and Passenger Vehicle LST Operations - San Bernardino-South Coast County, Summer

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	9,209.147 1	0.0000	0.0000	0.0000	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	9,209.147 1	0.0000	0.0000	0.0000	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	9,209.147 1	0.0000	0.0000	0.0000	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	9,209.147 1	0.0000	0.0000	0.0000	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	N2O	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

Area, Building Operations, and Passenger Vehicle LST Operations - San Bernardino-South Coast County, Summer

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	18.4871	1.6800e-003	0.1835	1.0000e-005		6.6000e-004	6.6000e-004		6.6000e-004	6.6000e-004		0.3927	0.3927	1.0400e-003		0.4186
Energy	0.0584	0.5312	0.4462	3.1900e-003		0.0404	0.0404		0.0404	0.0404		637.4476	637.4476	0.0122	0.0117	641.2356
Mobile	1.3306	0.3136	3.6527	2.6100e-003	0.0859	6.4100e-003	0.0923	0.0228	5.8900e-003	0.0287		254.5705	254.5705	0.0192		255.0507
Total	19.8760	0.8465	4.2824	5.8100e-003	0.0859	0.0474	0.1333	0.0228	0.0469	0.0697		892.4108	892.4108	0.0325	0.0117	896.7049

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	18.4868	1.6500e-003	0.1812	1.0000e-005		6.4000e-004	6.4000e-004		6.4000e-004	6.4000e-004		0.3873	0.3873	1.0200e-003		0.4127
Energy	0.0584	0.5312	0.4462	3.1900e-003		0.0404	0.0404		0.0404	0.0404		637.4476	637.4476	0.0122	0.0117	641.2356
Mobile	1.3306	0.3136	3.6527	2.6100e-003	0.0859	6.4100e-003	0.0923	0.0228	5.8900e-003	0.0287		254.5705	254.5705	0.0192		255.0507
Total	19.8758	0.8465	4.2801	5.8100e-003	0.0859	0.0474	0.1333	0.0228	0.0469	0.0697		892.4054	892.4054	0.0325	0.0117	896.6990

Area, Building Operations, and Passenger Vehicle LST Operations - San Bernardino-South Coast County, Summer

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.05	0.00	0.00	0.04	0.02	0.00	0.04	0.03	0.00	0.00	0.00	0.06	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	Architectural Coating	Architectural Coating	2/15/2021	2/15/2021	5	1	

Acres of Grading (Site Preparation Phase): 0**Acres of Grading (Grading Phase): 0****Acres of Paving: 25.56****Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 1,440,060; Non-Residential Outdoor: 480,020; Striped Parking Area: 66,791 (Architectural Coating – sqft)****OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	0	0.00	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
Architectural Coating	0	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Area, Building Operations, and Passenger Vehicle LST Operations - San Bernardino-South Coast County, Summer

3.2 Architectural Coating - 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					
Archit. Coating	9,209.147 1					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
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
Total	9,209.147 1	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
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	0.0000	0.0000	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

Area, Building Operations, and Passenger Vehicle LST Operations - San Bernardino-South Coast County, Summer

3.2 Architectural Coating - 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					
Archit. Coating	9,209.147 1					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
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
Total	9,209.147 1	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
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	0.0000	0.0000	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

4.0 Operational Detail - Mobile

Area, Building Operations, and Passenger Vehicle LST Operations - San Bernardino-South Coast County, Summer

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	1.3306	0.3136	3.6527	2.6100e-003	0.0859	6.4100e-003	0.0923	0.0228	5.8900e-003	0.0287		254.5705	254.5705	0.0192		255.0507
Unmitigated	1.3306	0.3136	3.6527	2.6100e-003	0.0859	6.4100e-003	0.0923	0.0228	5.8900e-003	0.0287		254.5705	254.5705	0.0192		255.0507

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Office Building	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	1,130.00	1,130.00	1,130.00	41,132	41,132
Total	1,130.00	1,130.00	1,130.00	41,132	41,132

4.3 Trip Type Information

Area, Building Operations, and Passenger Vehicle LST Operations - San Bernardino-South Coast County, Summer

Land Use	Miles			Trip %			Trip Purpose %		
	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
General Office Building	16.60	8.40	6.90	33.00	48.00	19.00	77	19	4
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	0.10	0.10	0.10	59.00	0.00	41.00	100	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
General Office Building	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	0.624181	0.041086	0.203450	0.131283	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

Area, Building Operations, and Passenger Vehicle LST Operations - San Bernardino-South Coast County, Summer

	ROG	NOx	CO	SO2	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	0.0584	0.5312	0.4462	3.1900e-003		0.0404	0.0404		0.0404	0.0404		637.4476	637.4476	0.0122	0.0117	641.2356
NaturalGas Unmitigated	0.0584	0.5312	0.4462	3.1900e-003		0.0404	0.0404		0.0404	0.0404		637.4476	637.4476	0.0122	0.0117	641.2356

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					
General Office Building	190.137	2.0500e-003	0.0186	0.0157	1.1000e-004		1.4200e-003	1.4200e-003		1.4200e-003	1.4200e-003		22.3691	22.3691	4.3000e-004	4.1000e-004	22.5020
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	5228.17	0.0564	0.5126	0.4306	3.0800e-003		0.0390	0.0390		0.0390	0.0390		615.0786	615.0786	0.0118	0.0113	618.7337
Total		0.0584	0.5312	0.4462	3.1900e-003		0.0404	0.0404		0.0404	0.0404		637.4476	637.4476	0.0122	0.0117	641.2356

Area, Building Operations, and Passenger Vehicle LST Operations - San Bernardino-South Coast County, Summer

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					
General Office Building	0.190137	2.0500e-003	0.0186	0.0157	1.1000e-004		1.4200e-003	1.4200e-003		1.4200e-003	1.4200e-003		22.3691	22.3691	4.3000e-004	4.1000e-004	22.5020
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	5.22817	0.0564	0.5126	0.4306	3.0800e-003		0.0390	0.0390		0.0390	0.0390		615.0786	615.0786	0.0118	0.0113	618.7337
Total		0.0584	0.5312	0.4462	3.1900e-003		0.0404	0.0404		0.0404	0.0404		637.4476	637.4476	0.0122	0.0117	641.2356

6.0 Area Detail**6.1 Mitigation Measures Area**

Use Electric Lawnmower

Use Electric Leafblower

Use Electric Chainsaw

Area, Building Operations, and Passenger Vehicle LST Operations - San Bernardino-South Coast County, Summer

	ROG	NOx	CO	SO2	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	18.4868	1.6500e-003	0.1812	1.0000e-005		6.4000e-004	6.4000e-004		6.4000e-004	6.4000e-004		0.3873	0.3873	1.0200e-003		0.4127
Unmitigated	18.4871	1.6800e-003	0.1835	1.0000e-005		6.6000e-004	6.6000e-004		6.6000e-004	6.6000e-004		0.3927	0.3927	1.0400e-003		0.4186

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	2.5231					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	15.9469					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0171	1.6800e-003	0.1835	1.0000e-005		6.6000e-004	6.6000e-004		6.6000e-004	6.6000e-004		0.3927	0.3927	1.0400e-003		0.4186
Total	18.4871	1.6800e-003	0.1835	1.0000e-005		6.6000e-004	6.6000e-004		6.6000e-004	6.6000e-004		0.3927	0.3927	1.0400e-003		0.4186

Area, Building Operations, and Passenger Vehicle LST Operations - San Bernardino-South Coast County, Summer

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	2.5231					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	15.9469					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0168	1.6500e-003	0.1812	1.0000e-005		6.4000e-004	6.4000e-004		6.4000e-004	6.4000e-004		0.3873	0.3873	1.0200e-003		0.4127
Total	18.4868	1.6500e-003	0.1812	1.0000e-005		6.4000e-004	6.4000e-004		6.4000e-004	6.4000e-004		0.3873	0.3873	1.0200e-003		0.4127

7.0 Water Detail**7.1 Mitigation Measures Water**

Apply Water Conservation Strategy

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

Area, Building Operations, and Passenger Vehicle LST Operations - San Bernardino-South Coast County, Summer

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

Area, Building Operations, and Passenger Vehicle LST Operations - San Bernardino-South Coast County, Winter

Area, Building Operations, and Passenger Vehicle LST Operations

San Bernardino-South Coast County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	20.00	1000sqft	0.46	20,000.00	0
Unrefrigerated Warehouse-No Rail	940.04	1000sqft	21.58	940,040.00	0
Other Non-Asphalt Surfaces	827.87	1000sqft	19.01	827,873.00	0
Parking Lot	6.55	Acre	6.55	285,318.00	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)	598.29	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

1.3 User Entered Comments & Non-Default Data

Area, Building Operations, and Passenger Vehicle LST Operations - San Bernardino-South Coast County, Winter

Project Characteristics - Colton Barton Road-Area, Building Operations, and Passenger Vehicle Operations

Colton Electric Utility not included as option in CalEEMod - CO2 intensity updated for Colton Electric Utility and accounts for compliance with RPS.

Land Use - Based on site plan, project description, and applicant-provided response to information request.

Construction Phase - Operational run only

Off-road Equipment - Operational run only

Off-road Equipment - Project-specific adjustments to the building construction equipment

Trips and VMT - Operational run only

Demolition -

Grading -

Architectural Coating -

Vehicle Trips - Passenger car trip generation rate consistent with the project-specific traffic information

Trip lengths updated to 0.1 mile to account for on-site emissions from mobile sources as a conservative estimate for LST analysis.

Vehicle Emission Factors -

Vehicle Emission Factors -

Vehicle Emission Factors -

Consumer Products - Updated based on 2017 ARB VOC inventory data and 2017 population estimates based on the State of California's Department of Finance demographic projections were used to estimate a statewide VOC EF for 2017.

Area Coating -

Energy Use -

Water And Wastewater -

Solid Waste -

Construction Off-road Equipment Mitigation -

Area Mitigation - Statewide average

Water Mitigation - Compliance with Green Building Code Standards and California Model Water Efficient Landscape Ordinance

Fleet Mix - Passenger vehicles consisting of LDA, LDT1, LDT2, and MDV

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	55.00	1.00
tblConsumerProducts	ROG_EF	1.98E-05	1.62E-05

Area, Building Operations, and Passenger Vehicle LST Operations - San Bernardino-South Coast County, Winter

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	LandUseSquareFeet	827,870.00	827,873.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	UsageHours	6.00	0.00
tblProjectCharacteristics	CO2IntensityFactor	702.44	598.29
tblTripsAndVMT	WorkerTripNumber	174.00	0.00
tblVehicleTrips	CC_TL	8.40	0.10
tblVehicleTrips	CNW_TL	6.90	0.10
tblVehicleTrips	CW_TL	16.60	0.10
tblVehicleTrips	DV_TP	5.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PR_TP	92.00	100.00
tblVehicleTrips	ST_TR	2.46	0.00
tblVehicleTrips	ST_TR	1.68	1.20
tblVehicleTrips	SU_TR	1.05	0.00

Area, Building Operations, and Passenger Vehicle LST Operations - San Bernardino-South Coast County, Winter

tblVehicleTrips	SU_TR	1.68	1.20
tblVehicleTrips	WD_TR	11.03	0.00
tblVehicleTrips	WD_TR	1.68	1.20

2.0 Emissions Summary

Area, Building Operations, and Passenger Vehicle LST Operations - San Bernardino-South Coast County, Winter

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	9,209.147 1	0.0000	0.0000	0.0000	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	9,209.147 1	0.0000	0.0000	0.0000	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	9,209.147 1	0.0000	0.0000	0.0000	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	9,209.147 1	0.0000	0.0000	0.0000	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	N2O	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

Area, Building Operations, and Passenger Vehicle LST Operations - San Bernardino-South Coast County, Winter

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	18.4871	1.6800e-003	0.1835	1.0000e-005		6.6000e-004	6.6000e-004		6.6000e-004	6.6000e-004		0.3927	0.3927	1.0400e-003		0.4186
Energy	0.0584	0.5312	0.4462	3.1900e-003		0.0404	0.0404		0.0404	0.0404		637.4476	637.4476	0.0122	0.0117	641.2356
Mobile	1.0731	0.3317	4.2531	2.5300e-003	0.0859	6.4100e-003	0.0923	0.0228	5.8900e-003	0.0287		245.9216	245.9216	0.0223		246.4791
Total	19.6185	0.8646	4.8829	5.7300e-003	0.0859	0.0474	0.1333	0.0228	0.0469	0.0697		883.7619	883.7619	0.0356	0.0117	888.1333

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	18.4868	1.6500e-003	0.1812	1.0000e-005		6.4000e-004	6.4000e-004		6.4000e-004	6.4000e-004		0.3873	0.3873	1.0200e-003		0.4127
Energy	0.0584	0.5312	0.4462	3.1900e-003		0.0404	0.0404		0.0404	0.0404		637.4476	637.4476	0.0122	0.0117	641.2356
Mobile	1.0731	0.3317	4.2531	2.5300e-003	0.0859	6.4100e-003	0.0923	0.0228	5.8900e-003	0.0287		245.9216	245.9216	0.0223		246.4791
Total	19.6183	0.8645	4.8805	5.7300e-003	0.0859	0.0474	0.1333	0.0228	0.0469	0.0697		883.7565	883.7565	0.0355	0.0117	888.1274

Area, Building Operations, and Passenger Vehicle LST Operations - San Bernardino-South Coast County, Winter

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.05	0.00	0.00	0.04	0.02	0.00	0.04	0.03	0.00	0.00	0.00	0.06	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	Architectural Coating	Architectural Coating	2/15/2021	2/15/2021	5	1	

Acres of Grading (Site Preparation Phase): 0**Acres of Grading (Grading Phase): 0****Acres of Paving: 25.56****Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 1,440,060; Non-Residential Outdoor: 480,020; Striped Parking Area: 66,791 (Architectural Coating – sqft)****OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	0	0.00	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
Architectural Coating	0	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Area, Building Operations, and Passenger Vehicle LST Operations - San Bernardino-South Coast County, Winter

3.2 Architectural Coating - 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					
Archit. Coating	9,209.147 1					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
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
Total	9,209.147 1	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
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	0.0000	0.0000	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

Area, Building Operations, and Passenger Vehicle LST Operations - San Bernardino-South Coast County, Winter

3.2 Architectural Coating - 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					
Archit. Coating	9,209.147 1					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
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
Total	9,209.147 1	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
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	0.0000	0.0000	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

4.0 Operational Detail - Mobile

Area, Building Operations, and Passenger Vehicle LST Operations - San Bernardino-South Coast County, Winter

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	1.0731	0.3317	4.2531	2.5300e-003	0.0859	6.4100e-003	0.0923	0.0228	5.8900e-003	0.0287		245.9216	245.9216	0.0223		246.4791
Unmitigated	1.0731	0.3317	4.2531	2.5300e-003	0.0859	6.4100e-003	0.0923	0.0228	5.8900e-003	0.0287		245.9216	245.9216	0.0223		246.4791

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Office Building	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	1,130.00	1,130.00	1,130.00	41,132	41,132
Total	1,130.00	1,130.00	1,130.00	41,132	41,132

4.3 Trip Type Information

Area, Building Operations, and Passenger Vehicle LST Operations - San Bernardino-South Coast County, Winter

Land Use	Miles			Trip %			Trip Purpose %		
	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
General Office Building	16.60	8.40	6.90	33.00	48.00	19.00	77	19	4
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	0.10	0.10	0.10	59.00	0.00	41.00	100	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
General Office Building	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	0.624181	0.041086	0.203450	0.131283	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

Area, Building Operations, and Passenger Vehicle LST Operations - San Bernardino-South Coast County, Winter

	ROG	NOx	CO	SO2	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	0.0584	0.5312	0.4462	3.1900e-003		0.0404	0.0404		0.0404	0.0404		637.4476	637.4476	0.0122	0.0117	641.2356
NaturalGas Unmitigated	0.0584	0.5312	0.4462	3.1900e-003		0.0404	0.0404		0.0404	0.0404		637.4476	637.4476	0.0122	0.0117	641.2356

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					
General Office Building	190.137	2.0500e-003	0.0186	0.0157	1.1000e-004		1.4200e-003	1.4200e-003		1.4200e-003	1.4200e-003		22.3691	22.3691	4.3000e-004	4.1000e-004	22.5020
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	5228.17	0.0564	0.5126	0.4306	3.0800e-003		0.0390	0.0390		0.0390	0.0390		615.0786	615.0786	0.0118	0.0113	618.7337
Total		0.0584	0.5312	0.4462	3.1900e-003		0.0404	0.0404		0.0404	0.0404		637.4476	637.4476	0.0122	0.0117	641.2356

Area, Building Operations, and Passenger Vehicle LST Operations - San Bernardino-South Coast County, Winter

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					
General Office Building	0.190137	2.0500e-003	0.0186	0.0157	1.1000e-004		1.4200e-003	1.4200e-003		1.4200e-003	1.4200e-003		22.3691	22.3691	4.3000e-004	4.1000e-004	22.5020
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	5.22817	0.0564	0.5126	0.4306	3.0800e-003		0.0390	0.0390		0.0390	0.0390		615.0786	615.0786	0.0118	0.0113	618.7337
Total		0.0584	0.5312	0.4462	3.1900e-003		0.0404	0.0404		0.0404	0.0404		637.4476	637.4476	0.0122	0.0117	641.2356

6.0 Area Detail**6.1 Mitigation Measures Area**

Use Electric Lawnmower

Use Electric Leafblower

Use Electric Chainsaw

Area, Building Operations, and Passenger Vehicle LST Operations - San Bernardino-South Coast County, Winter

	ROG	NOx	CO	SO2	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	18.4868	1.6500e-003	0.1812	1.0000e-005		6.4000e-004	6.4000e-004		6.4000e-004	6.4000e-004		0.3873	0.3873	1.0200e-003		0.4127
Unmitigated	18.4871	1.6800e-003	0.1835	1.0000e-005		6.6000e-004	6.6000e-004		6.6000e-004	6.6000e-004		0.3927	0.3927	1.0400e-003		0.4186

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	2.5231					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	15.9469					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0171	1.6800e-003	0.1835	1.0000e-005		6.6000e-004	6.6000e-004		6.6000e-004	6.6000e-004		0.3927	0.3927	1.0400e-003		0.4186
Total	18.4871	1.6800e-003	0.1835	1.0000e-005		6.6000e-004	6.6000e-004		6.6000e-004	6.6000e-004		0.3927	0.3927	1.0400e-003		0.4186

Area, Building Operations, and Passenger Vehicle LST Operations - San Bernardino-South Coast County, Winter

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	2.5231					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	15.9469					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0168	1.6500e-003	0.1812	1.0000e-005		6.4000e-004	6.4000e-004		6.4000e-004	6.4000e-004		0.3873	0.3873	1.0200e-003		0.4127
Total	18.4868	1.6500e-003	0.1812	1.0000e-005		6.4000e-004	6.4000e-004		6.4000e-004	6.4000e-004		0.3873	0.3873	1.0200e-003		0.4127

7.0 Water Detail**7.1 Mitigation Measures Water**

Apply Water Conservation Strategy

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

Area, Building Operations, and Passenger Vehicle LST Operations - San Bernardino-South Coast County, Winter

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

Colton Barton Road-Truck Operations - LST Analysis - San Bernardino-South Coast County, Summer

Colton Barton Road-Truck Operations - LST Analysis

San Bernardino-South Coast County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	20.00	1000sqft	0.46	20,000.00	0
Unrefrigerated Warehouse-No Rail	940.04	1000sqft	21.58	940,040.00	0
Other Non-Asphalt Surfaces	827.87	1000sqft	19.01	827,873.00	0
Parking Lot	6.55	Acre	6.55	285,318.00	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)	598.29	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

1.3 User Entered Comments & Non-Default Data

Colton Barton Road-Truck Operations - LST Analysis - San Bernardino-South Coast County, Summer

Project Characteristics - Colton Barton Road-Truck Operations - LST Analysis

Colton Electric Utility not included as option in CalEEMod - CO2 intensity updated for Colton Electric Utility and accounts for compliance with RPS.

Land Use - Based on site plan, project description, and applicant-provided response for information response.

Construction Phase - Operational run only - zeroed out construction only parameters

Off-road Equipment - Operational run only

Trips and VMT - Operational run only

Architectural Coating - Operational run only

Vehicle Trips - Truck trip generation rate consistent with the project-specific traffic report

Trip lengths updated to 0.1 mile to account for on-site emissions from mobile sources as a conservative estimate for LST analysis.

Consumer Products - Operational truck only run

Area Coating - Operational truck only run

Landscape Equipment - Operational truck only run

Energy Use - Operational truck only run

Water And Wastewater - Operational truck only run - water and wastewater in a separate run

Solid Waste - Operational truck only run 0

Fleet Mix - Truck operational fleet mix consistent with project-specific traffic report

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	100.00	0.00
tblArchitecturalCoating	EF_Nonresidential_Interior	100.00	0.00
tblAreaCoating	ReapplicationRatePercent	10	0
tblConstructionPhase	NumDays	55.00	0.00
tblConsumerProducts	ROG_EF	1.98E-05	0
tblEnergyUse	LightingElect	3.66	0.00
tblEnergyUse	LightingElect	0.35	0.00
tblEnergyUse	LightingElect	1.17	0.00
tblEnergyUse	NT24E	2.79	0.00
tblEnergyUse	NT24E	0.82	0.00

Colton Barton Road-Truck Operations - LST Analysis - San Bernardino-South Coast County, Summer

tblEnergyUse	NT24NG	0.03	0.00
tblEnergyUse	T24E	3.07	0.00
tblEnergyUse	T24E	0.37	0.00
tblEnergyUse	T24NG	3.47	0.00
tblEnergyUse	T24NG	2.00	0.00
tblFleetMix	HHD	0.06	0.62
tblFleetMix	LDA	0.55	0.00
tblFleetMix	LDT1	0.04	0.00
tblFleetMix	LDT2	0.18	0.00
tblFleetMix	LHD1	0.02	0.13
tblFleetMix	LHD2	5.1010e-003	0.04
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
tblLandscapeEquipment	NumberSummerDays	250	1
tblLandUse	LandUseSquareFeet	827,870.00	827,873.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblProjectCharacteristics	CO2IntensityFactor	702.44	598.29
tblSolidWaste	SolidWasteGenerationRate	18.60	0.00
tblSolidWaste	SolidWasteGenerationRate	883.64	0.00
tblTripsAndVMT	WorkerTripNumber	174.00	0.00
tblVehicleTrips	CC_TL	8.40	0.10
tblVehicleTrips	CNW_TL	6.90	0.10

Colton Barton Road-Truck Operations - LST Analysis - San Bernardino-South Coast County, Summer

tblVehicleTrips	CW_TL	16.60	0.10
tblVehicleTrips	DV_TP	5.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PR_TP	92.00	100.00
tblVehicleTrips	ST_TR	2.46	0.00
tblVehicleTrips	ST_TR	1.68	0.23
tblVehicleTrips	SU_TR	1.05	0.00
tblVehicleTrips	SU_TR	1.68	0.23
tblVehicleTrips	WD_TR	11.03	0.00
tblVehicleTrips	WD_TR	1.68	0.23
tblWater	IndoorWaterUseRate	3,554,674.96	0.00
tblWater	IndoorWaterUseRate	217,384,250.00	0.00
tblWater	OutdoorWaterUseRate	2,178,671.75	0.00

2.0 Emissions Summary

Colton Barton Road-Truck Operations - LST Analysis - San Bernardino-South Coast County, Summer

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	N2O	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

Colton Barton Road-Truck Operations - LST Analysis - San Bernardino-South Coast County, Summer

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	0.4114	1.6800e-003	0.1835	1.0000e-005		6.6000e-004	6.6000e-004		6.6000e-004	6.6000e-004		0.3927	0.3927	1.0400e-003		0.4186
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	0.3492	15.6896	1.9598	0.0217	0.0195	3.2700e-003	0.0227	5.4800e-003	3.1200e-003	8.6000e-003		2,289.5105	2,289.5105	0.3794		2,298.9943
Total	0.7605	15.6913	2.1433	0.0217	0.0195	3.9300e-003	0.0234	5.4800e-003	3.7800e-003	9.2600e-003		2,289.9033	2,289.9033	0.3804	0.0000	2,299.4129

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	0.4114	1.6800e-003	0.1835	1.0000e-005		6.6000e-004	6.6000e-004		6.6000e-004	6.6000e-004		0.3927	0.3927	1.0400e-003		0.4186
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	0.3492	15.6896	1.9598	0.0217	0.0195	3.2700e-003	0.0227	5.4800e-003	3.1200e-003	8.6000e-003		2,289.5105	2,289.5105	0.3794		2,298.9943
Total	0.7605	15.6913	2.1433	0.0217	0.0195	3.9300e-003	0.0234	5.4800e-003	3.7800e-003	9.2600e-003		2,289.9033	2,289.9033	0.3804	0.0000	2,299.4129

Colton Barton Road-Truck Operations - LST Analysis - San Bernardino-South Coast County, Summer

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	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	Architectural Coating	Architectural Coating	2/15/2021	2/14/2021	5	0	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 25.56

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 1,440,060; Non-Residential Outdoor: 480,020; Striped Parking Area: 66,791 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	0	6.00	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
Architectural Coating	0	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Colton Barton Road-Truck Operations - LST Analysis - San Bernardino-South Coast County, Summer

3.2 Architectural Coating - 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					
Archit. Coating	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
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

Colton Barton Road-Truck Operations - LST Analysis - San Bernardino-South Coast County, Summer

3.2 Architectural Coating - 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					
Archit. Coating	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
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

Colton Barton Road-Truck Operations - LST Analysis - San Bernardino-South Coast County, Summer

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	0.3492	15.6896	1.9598	0.0217	0.0195	3.2700e-003	0.0227	5.4800e-003	3.1200e-003	8.6000e-003		2,289.5105	2,289.5105	0.3794		2,298.9943
Unmitigated	0.3492	15.6896	1.9598	0.0217	0.0195	3.2700e-003	0.0227	5.4800e-003	3.1200e-003	8.6000e-003		2,289.5105	2,289.5105	0.3794		2,298.9943

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Office Building	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	218.00	218.00	218.00	7,935	7,935
Total	218.00	218.00	218.00	7,935	7,935

4.3 Trip Type Information

Colton Barton Road-Truck Operations - LST Analysis - San Bernardino-South Coast County, Summer

Land Use	Miles			Trip %			Trip Purpose %		
	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
General Office Building	16.60	8.40	6.90	33.00	48.00	19.00	77	19	4
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	0.10	0.10	0.10	59.00	0.00	41.00	100	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
General Office Building	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	0.125527	0.039611	0.211009	0.623853	0.000000	0.000000	0.000000	0.000000	0.000000

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Colton Barton Road-Truck Operations - LST Analysis - San Bernardino-South Coast County, Summer

	ROG	NOx	CO	SO2	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					
General Office Building	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

Colton Barton Road-Truck Operations - LST Analysis - San Bernardino-South Coast County, Summer

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					
General Office Building	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**

Colton Barton Road-Truck Operations - LST Analysis - San Bernardino-South Coast County, Summer

	ROG	NOx	CO	SO2	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	0.4114	1.6800e-003	0.1835	1.0000e-005		6.6000e-004	6.6000e-004		6.6000e-004	6.6000e-004		0.3927	0.3927	1.0400e-003		0.4186
Unmitigated	0.4114	1.6800e-003	0.1835	1.0000e-005		6.6000e-004	6.6000e-004		6.6000e-004	6.6000e-004		0.3927	0.3927	1.0400e-003		0.4186

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	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.3943					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0171	1.6800e-003	0.1835	1.0000e-005		6.6000e-004	6.6000e-004		6.6000e-004	6.6000e-004		0.3927	0.3927	1.0400e-003		0.4186
Total	0.4114	1.6800e-003	0.1835	1.0000e-005		6.6000e-004	6.6000e-004		6.6000e-004	6.6000e-004		0.3927	0.3927	1.0400e-003		0.4186

Colton Barton Road-Truck Operations - LST Analysis - San Bernardino-South Coast County, Summer

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	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.3943					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0171	1.6800e-003	0.1835	1.0000e-005		6.6000e-004	6.6000e-004		6.6000e-004	6.6000e-004		0.3927	0.3927	1.0400e-003		0.4186
Total	0.4114	1.6800e-003	0.1835	1.0000e-005		6.6000e-004	6.6000e-004		6.6000e-004	6.6000e-004		0.3927	0.3927	1.0400e-003		0.4186

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**

Colton Barton Road-Truck Operations - LST Analysis - San Bernardino-South Coast County, Summer

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

Colton Barton Road-Truck Operations - LST Analysis - San Bernardino-South Coast County, Winter

Colton Barton Road-Truck Operations - LST Analysis

San Bernardino-South Coast County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	20.00	1000sqft	0.46	20,000.00	0
Unrefrigerated Warehouse-No Rail	940.04	1000sqft	21.58	940,040.00	0
Other Non-Asphalt Surfaces	827.87	1000sqft	19.01	827,873.00	0
Parking Lot	6.55	Acre	6.55	285,318.00	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)	598.29	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

1.3 User Entered Comments & Non-Default Data

Colton Barton Road-Truck Operations - LST Analysis - San Bernardino-South Coast County, Winter

Project Characteristics - Colton Barton Road-Truck Operations - LST Analysis

Colton Electric Utility not included as option in CalEEMod - CO2 intensity updated for Colton Electric Utility and accounts for compliance with RPS.

Land Use - Based on site plan, project description, and applicant-provided response for information response.

Construction Phase - Operational run only - zeroed out construction only parameters

Off-road Equipment - Operational run only

Trips and VMT - Operational run only

Architectural Coating - Operational run only

Vehicle Trips - Truck trip generation rate consistent with the project-specific traffic report

Trip lengths updated to 0.1 mile to account for on-site emissions from mobile sources as a conservative estimate for LST analysis.

Consumer Products - Operational truck only run

Area Coating - Operational truck only run

Landscape Equipment - Operational truck only run

Energy Use - Operational truck only run

Water And Wastewater - Operational truck only run - water and wastewater in a separate run

Solid Waste - Operational truck only run 0

Fleet Mix - Truck operational fleet mix consistent with project-specific traffic report

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	100.00	0.00
tblArchitecturalCoating	EF_Nonresidential_Interior	100.00	0.00
tblAreaCoating	ReapplicationRatePercent	10	0
tblConstructionPhase	NumDays	55.00	0.00
tblConsumerProducts	ROG_EF	1.98E-05	0
tblEnergyUse	LightingElect	3.66	0.00
tblEnergyUse	LightingElect	0.35	0.00
tblEnergyUse	LightingElect	1.17	0.00
tblEnergyUse	NT24E	2.79	0.00
tblEnergyUse	NT24E	0.82	0.00

Colton Barton Road-Truck Operations - LST Analysis - San Bernardino-South Coast County, Winter

tblEnergyUse	NT24NG	0.03	0.00
tblEnergyUse	T24E	3.07	0.00
tblEnergyUse	T24E	0.37	0.00
tblEnergyUse	T24NG	3.47	0.00
tblEnergyUse	T24NG	2.00	0.00
tblFleetMix	HHD	0.06	0.62
tblFleetMix	LDA	0.55	0.00
tblFleetMix	LDT1	0.04	0.00
tblFleetMix	LDT2	0.18	0.00
tblFleetMix	LHD1	0.02	0.13
tblFleetMix	LHD2	5.1010e-003	0.04
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
tblLandscapeEquipment	NumberSummerDays	250	1
tblLandUse	LandUseSquareFeet	827,870.00	827,873.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblProjectCharacteristics	CO2IntensityFactor	702.44	598.29
tblSolidWaste	SolidWasteGenerationRate	18.60	0.00
tblSolidWaste	SolidWasteGenerationRate	883.64	0.00
tblTripsAndVMT	WorkerTripNumber	174.00	0.00
tblVehicleTrips	CC_TL	8.40	0.10
tblVehicleTrips	CNW_TL	6.90	0.10

Colton Barton Road-Truck Operations - LST Analysis - San Bernardino-South Coast County, Winter

tblVehicleTrips	CW_TL	16.60	0.10
tblVehicleTrips	DV_TP	5.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PR_TP	92.00	100.00
tblVehicleTrips	ST_TR	2.46	0.00
tblVehicleTrips	ST_TR	1.68	0.23
tblVehicleTrips	SU_TR	1.05	0.00
tblVehicleTrips	SU_TR	1.68	0.23
tblVehicleTrips	WD_TR	11.03	0.00
tblVehicleTrips	WD_TR	1.68	0.23
tblWater	IndoorWaterUseRate	3,554,674.96	0.00
tblWater	IndoorWaterUseRate	217,384,250.00	0.00
tblWater	OutdoorWaterUseRate	2,178,671.75	0.00

2.0 Emissions Summary

Colton Barton Road-Truck Operations - LST Analysis - San Bernardino-South Coast County, Winter

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	N2O	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

Colton Barton Road-Truck Operations - LST Analysis - San Bernardino-South Coast County, Winter

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	0.4114	1.6800e-003	0.1835	1.0000e-005		6.6000e-004	6.6000e-004		6.6000e-004	6.6000e-004		0.3927	0.3927	1.0400e-003		0.4186
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	0.3873	15.0877	2.6837	0.0189	0.0195	4.3500e-003	0.0238	5.4800e-003	4.1600e-003	9.6400e-003		1,993.307 1	1,993.307 1	0.4307		2,004.074 1
Total	0.7986	15.0894	2.8672	0.0189	0.0195	5.0100e-003	0.0245	5.4800e-003	4.8200e-003	0.0103		1,993.699 8	1,993.699 8	0.4317	0.0000	2,004.492 7

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	0.4114	1.6800e-003	0.1835	1.0000e-005		6.6000e-004	6.6000e-004		6.6000e-004	6.6000e-004		0.3927	0.3927	1.0400e-003		0.4186
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	0.3873	15.0877	2.6837	0.0189	0.0195	4.3500e-003	0.0238	5.4800e-003	4.1600e-003	9.6400e-003		1,993.307 1	1,993.307 1	0.4307		2,004.074 1
Total	0.7986	15.0894	2.8672	0.0189	0.0195	5.0100e-003	0.0245	5.4800e-003	4.8200e-003	0.0103		1,993.699 8	1,993.699 8	0.4317	0.0000	2,004.492 7

Colton Barton Road-Truck Operations - LST Analysis - San Bernardino-South Coast County, Winter

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	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	Architectural Coating	Architectural Coating	2/15/2021	2/14/2021	5	0	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 25.56

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 1,440,060; Non-Residential Outdoor: 480,020; Striped Parking Area: 66,791 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	0	6.00	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
Architectural Coating	0	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Colton Barton Road-Truck Operations - LST Analysis - San Bernardino-South Coast County, Winter

3.2 Architectural Coating - 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					
Archit. Coating	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
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

Colton Barton Road-Truck Operations - LST Analysis - San Bernardino-South Coast County, Winter

3.2 Architectural Coating - 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					
Archit. Coating	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
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

Colton Barton Road-Truck Operations - LST Analysis - San Bernardino-South Coast County, Winter

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	0.3873	15.0877	2.6837	0.0189	0.0195	4.3500e-003	0.0238	5.4800e-003	4.1600e-003	9.6400e-003		1,993.3071	1,993.3071	0.4307		2,004.0741
Unmitigated	0.3873	15.0877	2.6837	0.0189	0.0195	4.3500e-003	0.0238	5.4800e-003	4.1600e-003	9.6400e-003		1,993.3071	1,993.3071	0.4307		2,004.0741

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Office Building	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	218.00	218.00	218.00	7,935	7,935
Total	218.00	218.00	218.00	7,935	7,935

4.3 Trip Type Information

Colton Barton Road-Truck Operations - LST Analysis - San Bernardino-South Coast County, Winter

Land Use	Miles			Trip %			Trip Purpose %		
	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
General Office Building	16.60	8.40	6.90	33.00	48.00	19.00	77	19	4
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	0.10	0.10	0.10	59.00	0.00	41.00	100	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
General Office Building	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	0.125527	0.039611	0.211009	0.623853	0.000000	0.000000	0.000000	0.000000	0.000000

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Colton Barton Road-Truck Operations - LST Analysis - San Bernardino-South Coast County, Winter

	ROG	NOx	CO	SO2	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					
General Office Building	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

Colton Barton Road-Truck Operations - LST Analysis - San Bernardino-South Coast County, Winter

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					
General Office Building	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**

Colton Barton Road-Truck Operations - LST Analysis - San Bernardino-South Coast County, Winter

	ROG	NOx	CO	SO2	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	0.4114	1.6800e-003	0.1835	1.0000e-005		6.6000e-004	6.6000e-004		6.6000e-004	6.6000e-004		0.3927	0.3927	1.0400e-003		0.4186
Unmitigated	0.4114	1.6800e-003	0.1835	1.0000e-005		6.6000e-004	6.6000e-004		6.6000e-004	6.6000e-004		0.3927	0.3927	1.0400e-003		0.4186

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	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.3943					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0171	1.6800e-003	0.1835	1.0000e-005		6.6000e-004	6.6000e-004		6.6000e-004	6.6000e-004		0.3927	0.3927	1.0400e-003		0.4186
Total	0.4114	1.6800e-003	0.1835	1.0000e-005		6.6000e-004	6.6000e-004		6.6000e-004	6.6000e-004		0.3927	0.3927	1.0400e-003		0.4186

Colton Barton Road-Truck Operations - LST Analysis - San Bernardino-South Coast County, Winter

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	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.3943					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0171	1.6800e-003	0.1835	1.0000e-005		6.6000e-004	6.6000e-004		6.6000e-004	6.6000e-004		0.3927	0.3927	1.0400e-003		0.4186
Total	0.4114	1.6800e-003	0.1835	1.0000e-005		6.6000e-004	6.6000e-004		6.6000e-004	6.6000e-004		0.3927	0.3927	1.0400e-003		0.4186

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**

Colton Barton Road-Truck Operations - LST Analysis - San Bernardino-South Coast County, Winter

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 B: Health Risk Assessment

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Health Risk Assessment

Barton Road Logistics Center Project

Total DPM and Cancer Risk

Barton Road Logistics Center Project Total DPM

Colton Barton Road Construction MIR UTM: (469594.13, 3766418.72)

Colton Barton Road Operational MIR UTM: (469644.93, 3766144.59)

		Construction	Operations	Operations	Operations	Operations	Operations
		2021-2022	2022	2025	2030	2040	2050
		Total	Total	Total	Total	Total	Total
		DPM	DPM	DPM	DPM	DPM	DPM
X	Y	(ug/m3)	(ug/m3)	(ug/m3)	(ug/m3)	(ug/m3)	(ug/m3)
469594.13	3766418.72	4.5014E-02	8.6688E-04	8.4282E-04	7.6934E-04	7.2890E-04	7.2051E-04
469644.93	3766144.59	4.3436E-02	1.0669E-03	1.5716E-03	1.4445E-03	1.3930E-03	1.3819E-03

30-year Lifetime Cancer Risk

30-year Lifetime Cancer Risk

Colton Barton Road Co
Construction Duration

[illegible]

Maximum DPM Concentration (ug/m3)

		2021																																		
X	Y	3rd Trimester	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	Total	
409594.13	3766418.72	4.5014E-02	4.5014E-02	4.5014E-02	6.6688E-04	5.5886E-04	5.5084E-04	8.4282E-04	8.2813E-04	8.1341E-04	7.9873E-04	7.8403E-04	7.6934E-04	7.6252E-04	7.6125E-04	7.5727E-04	7.5316E-04	7.4912E-04	7.4507E-04	7.4103E-04	7.3699E-04	7.3294E-04	7.2890E-04	7.2806E-04	7.2722E-04	7.2638E-04	7.2554E-04	7.2471E-04	7.2387E-04	7.2303E-04	7.2219E-04	7.2135E-04	7.2051E-04	7.2051E-04	7.2051E-04	1.584E+01

Colton Barton Road Construction MIR UTM: (469594.13, 3766418.72)

Annual Risk (risk/million)		2021		2022		2023		2024		2025		2026		2027		2028		2029		2030		2031		2032		2033		2034		2035		2036		2037		2038		2039		2040		2041		2042		2043		2044		2045		2046		2047		2048		2049		2050		2051		2052		Total																																																																																																																																																												
X	Y	3rd Trimester	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	Total																																																																																																																																																																																											
4,000.00	3,700.00	4,100.00	4,200.00	4,300.00	4,400.00	4,500.00	4,600.00	4,700.00	4,800.00	4,900.00	5,000.00	5,100.00	5,200.00	5,300.00	5,400.00	5,500.00	5,600.00	5,700.00	5,800.00	5,900.00	6,000.00	6,100.00	6,200.00	6,300.00	6,400.00	6,500.00	6,600.00	6,700.00	6,800.00	6,900.00	7,000.00	7,100.00	7,200.00	7,300.00	7,400.00	7,500.00	7,600.00	7,700.00	7,800.00	7,900.00	8,000.00	8,100.00	8,200.00	8,300.00	8,400.00	8,500.00	8,600.00	8,700.00	8,800.00	8,900.00	9,000.00	9,100.00	9,200.00	9,300.00	9,400.00	9,500.00	9,600.00	9,700.00	9,800.00	9,900.00	10,000.00	10,100.00	10,200.00	10,300.00	10,400.00	10,500.00	10,600.00	10,700.00	10,800.00	10,900.00	11,000.00	11,100.00	11,200.00	11,300.00	11,400.00	11,500.00	11,600.00	11,700.00	11,800.00	11,900.00	12,000.00	12,100.00	12,200.00	12,300.00	12,400.00	12,500.00	12,600.00	12,700.00	12,800.00	12,900.00	13,000.00	13,100.00	13,200.00	13,300.00	13,400.00	13,500.00	13,600.00	13,700.00	13,800.00	13,900.00	14,000.00	14,100.00	14,200.00	14,300.00	14,400.00	14,500.00	14,600.00	14,700.00	14,800.00	14,900.00	15,000.00	15,100.00	15,200.00	15,300.00	15,400.00	15,500.00	15,600.00	15,700.00	15,800.00	15,900.00	16,000.00	16,100.00	16,200.00	16,300.00	16,400.00	16,500.00	16,600.00	16,700.00	16,800.00	16,900.00	17,000.00	17,100.00	17,200.00	17,300.00	17,400.00	17,500.00	17,600.00	17,700.00	17,800.00	17,900.00	18,000.00	18,100.00	18,200.00	18,300.00	18,400.00	18,500.00	18,600.00	18,700.00	18,800.00	18,900.00	19,000.00	19,100.00	19,200.00	19,300.00	19,400.00	19,500.00	19,600.00	19,700.00	19,800.00	19,900.00	20,000.00	20,100.00	20,200.00	20,300.00	20,400.00	20,500.00	20,600.00	20,700.00	20,800.00	20,900.00	21,000.00	21,100.00	21,200.00	21,300.00	21,400.00	21,500.00	21,600.00	21,700.00	21,800.00	21,900.00	22,000.00	22,100.00	22,200.00	22,300.00	22,400.00	22,500.00	22,600.00	22,700.00	22,800.00	22,900.00	23,000.00	23,100.00	23,200.00	23,300.00	23,400.00	23,500.00	23,600.00	23,700.00	23,800.00	23,900.00	24,000.00	24,100.00	24,200.00	24,300.00	24,400.00	24,500.00	24,600.00	24,700.00	24,800.00	24,900.00	25,000.00	25,100.00	25,200.00	25,300.00	25,400.00	25,500.00	25,600.00	25,700.00	25,800.00	25,900.00	26,000.00	2

[illegible]

7.22
Threshold of Significance
10
Mean of the Standard 65

Estimates of Chronic Non-Cancer Hazard Index (CNCHI)

Chronic Non-Cancer Hazard Index at the MIR
Colton Barton Road Construction MIR UTM: (469594.13, 3766418.72)
Reference Exposure Level (REL) for DPM: 5 ug/m3

CNCHI - DPM/REL			
X	Y	Maximum Annual Average DPM	
(m)	(m)	(ug/m3)	CNCHI
469594.13	3766418.72	0.05	0.009003

Non-Cancer Hazard Index
0.009003
Threshold of Significance
1

Health Risk Assessment

Construction

Barton Road Logistics Center Project

Estimation of Annual Off-road Construction Emissions

Start of Construction	2/15/2021	
End of Construction	5/13/2022	Total
Number of Days	452	452
Number of Hours	10,848	10,848

Size of the construction area source: **198,608.6** sq-meters

Year	Off-road Construction Activity	Unmitigated On-site DPM (tons)	
2021	On-site Demolition	0.07760	
2021	On-site Site Preparation	0.02040	
2021	On-site Grading	0.02980	
2021	On-site Building Construction	0.03830	
2021	Off-site Improvements—On-site Site Preparation	0.00090	
2021	Off-site Improvements—On-site Grading	0.00265	
2021	Off-site Improvements—On-site Paving	0.00548	
2022	On-site Building Construction	0.01820	
2022	On-site Paving	0.00710	
2022	On-site Architectural Coating	0.00102	
Total Unmitigated DPM (On-site)		2.015E-01	tons
Average Emission		1.829E+05	grams
		4.684E-03	grams/sec
		2.358E-08	grams/m2-sec

Barton Road Logistics Center Project

Estimation of Annual Offsite Construction DPM Emissions (Unmitigated)

Start of Construction	2/15/2021									
End of Construction	5/13/2022					Total				
Number of Days	452					452				
Number of Hours	10,848					10,848				
	2021	2021	2021	2021	2022	2022	2022	2021	2021	2021
		Site		Building	Building		Architectural	Off-site Improvements	Off-site Improvements	Off-site Improvements
Construction Trip Type	Demolition	Preparation	Grading	Construction	Construction	Paving	Coating	Site Preparation	Grading	Paving
Haul Truck	0.00387	0.00000	0.00005	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Vendor Truck	0.00000	0.00000	0.00000	0.00228	0.00108	0.00000	0.00000	0.00000	0.00000	0.00000
Worker	0.00005	0.00001	0.00002	0.00249	0.00136	0.00001	0.00015	0.00000	0.00000	0.00002
Total	0.00392	0.00001	0.00007	0.00477	0.00244	0.00001	0.00015	0.00000	0.00000	0.00002
	Haul Truck (tons)	Vendor Truck (tons)	Worker (tons)	Total (tons)						
Total DPM	3.920E-03	3.360E-03	4.110E-03	1.139E-02						
Average Emissions										
Grams	3.559E+03	3.051E+03	3.732E+03							
Grams/sec	9.114E-05	7.812E-05	9.556E-05							
Default Vehicle Travel Distance in C	20	6.9	14.7							
Vehicle Travel Distances in the Construction HRA (miles)										
Road Segment 1 (mi)	0.20	0.20	0.20							
Road Segment 2 (mi)	0.54	0.54	0.54							
Road Segment 3 (mi)	0.56	0.56	0.56							
Road Segment 4 (mi)	0.60	0.60	0.60							
Road Segment 5 (mi)	0.54	0.54	0.54							
Trip Distribution (percent)										
Road Segment 1	33%	33%	33%							
Road Segment 2	17%	17%	17%							
Road Segment 3	17%	17%	17%							
Road Segment 4	17%	17%	17%							
Road Segment 5	17%	17%	17%							
An additional 30% of the total offsite emissions added back to conservatively account for idling & on-site off-road travel										
30% (tons)	1.176E-03	1.008E-03	1.233E-03							
Grams	1.068E+03	9.153E+02	1.120E+03							
Grams/sec	2.734E-05	2.344E-05	2.867E-05							
Total Average Offsite Vehicle Emissions Along Travel Distance (g/sec)				Total						
Road Segment 1 (mi)	9.412E-06	8.553E-06	9.981E-06	2.795E-05						
Road Segment 2 (mi)	4.965E-06	4.920E-06	5.360E-06	1.525E-05						
Road Segment 3 (mi)	4.980E-06	4.956E-06	5.381E-06	1.532E-05						
Road Segment 4 (mi)	5.014E-06	5.041E-06	5.429E-06	1.548E-05						
Road Segment 5 (mi)	4.965E-06	4.919E-06	5.360E-06	1.524E-05						

OEHHA Cancer/SCAQMD Risk Methodology

$$\text{Cancer Risk} = \text{DPM} \times \text{CPF} \times \text{ASF} \times \text{DBR} \times \text{ED} \times \text{EF} \times \text{TAH} \times \text{AF} / \text{AT}$$

Cancer Risk = probability of an individual contracting cancer out of a population of 1 million people over a lifetime exposure duration of 30 years

DPM = long-term average concentration of diesel PM as predicted by the air dispersion model (ug/m³)

CPF = cancer potency factor for DPM (mg.ke-day)

ASF = age sensitivity factors that are dependent on the age of the exposed individual (unitless)

DBR = daily breathing rates that are dependent on the age of the exposed individual (liters/kg-day)

ED = exposure duration (years)

EF = exposure frequency (days/year)

TAH = time at home factors that are dependent on the age of the exposed individual (%)

AT = averaging time over the lifetime of an individual (days)

AF = adjustment factor for workers and students (unitless)

Cancer Risk Equation Values as recommended by the California Office of Environmental Health Hazards Assessment

OEHHA Cancer/SCAQMD Risk Methodology

$$\text{Cancer Risk} = \text{DPM} \times \text{CPF} \times \text{ASF} \times \text{DBR} \times \text{ED} \times \text{EF} \times \text{TAH} \times \text{AF} / \text{AT}$$

Cancer Risk = probability of an individual contracting cancer out of a population of 1 million people over a lifetime exposure duration of 30 years

DPM = long-term average concentration of diesel PM as predicted by the air dispersion model (ug/m³)

CPF = cancer potency factor for DPM (mg.ke-day)

ASF = age sensitivity factors that are dependent on the age of the exposed individual (unitless)

DBR = daily breathing rates that are dependent on the age of the exposed individual (liters/kg-day)

ED = exposure duration (years)

EF = exposure frequency (days/year)

TAH = time at home factors that are dependent on the age of the exposed individual (%)

AT = averaging time over the lifetime of an individual (days)

AF = adjustment factor for workers and students (unitless)

Cancer Risk Equation Values as recommended by the California Office of Environmental Health Hazards Assessment

Cancer Risk Calculations Using OEHHA Cancer Risk Assumptions

Barton Road Logistics Center Project

Cancer Risk Impacts from Construction at the Maximum Impacted Sensitive Receptor - Infant

UTM: 469594.13 3766418.72

Cancer Potency Factor: 1.1 (mg/kg-day)⁻¹
 Exposure Frequency 350 days/year
 Averaging Period 25550 days

Construction Annual DPM Emissions (as PM10 Exhaust) Unmitigated

Year	Maximum DPM Concentration (ug/m3)	Age Sensitivity Factor	Daily Breathing Rate (L/kg-day)	Time At Home Factor	Exposure Duration (years)	Cancer Risk (/million)
3rd Trimester	0.045014196	10	361	0.85	0.25	0.5
0-1	0.045014196	10	1090	0.85	0.99	6.2
Total						6.7

Cancer Risk Impacts from Construction at the Maximum Impacted Sensitive Receptor - Child

UTM: 469594.13 3766418.72

Cancer Potency Factor: 1.1 (mg/kg-day)⁻¹
 Exposure Frequency 350 days/year
 Averaging Period 25550 days

Construction Annual DPM Emissions (as PM10 Exhaust) Unmitigated

Construction Year	Maximum DPM Concentration (ug/m3)	Age Sensitivity Factor	Daily Breathing Rate (L/kg-day)	Time At Home Factor	Exposure Duration (years)	Unit Risk Factor (ug/m3) ⁻¹
1	0.045014196	3	572	0.72	1.24	1.0
Total						1.0

Cancer Risk Impacts from Construction at the Maximum Impacted Sensitive Receptor - Adult

UTM: 469594.13 3766418.72

Cancer Potency Factor: 1.1 (mg/kg-day)⁻¹
 Exposure Frequency 350 days/year
 Averaging Period 25550 days

Construction Annual DPM Emissions (as PM10 Exhaust) Unmitigated

Construction Year	Maximum DPM Concentration (ug/m3)	Age Sensitivity Factor	Daily Breathing Rate (L/kg-day)	Time At Home Factor	Exposure Duration (years)	Unit Risk Factor (ug/m3) ⁻¹
1	0.045014196	1	261	0.73	1.24	0.2
Total						0.2

Barton Road Logistics Center Project

UTM: 469594.13 3766418.72

Estimates of Chronic Non-Cancer Hazard Index (CNCHI)

Unmitigated

Chronic Non-Cancer Hazard Index at the Maximum Impacted Sensitive Receptor

Reference Exposure Level (REL) for DPM: 5 ug/m3

CNCHI = DPM/REL

X	Y	Average DPM	Max DPM	CNCHI
(m)	(m)	(ug/m3)	(ug/m3)	
469594.13	3766418.72	0.0450	0.0450	0.01

With Mitigation

Chronic Non-Cancer Hazard Index at the Maximum Impacted Sensitive Receptor

Reference Exposure Level (REL) for DPM: 5 ug/m3

CNCHI = DPM/REL

X	Y	Average DPM	Max DPM	CNCHI
(m)	(m)	(ug/m3)	(ug/m3)	
469594.13	3766418.72	0.0034	0.0034	0.00

Barton Road Logistics Center Project

Construction Annual DPM Emissions (PM10 Exhaust)—Unmitigated Concentrations

Annual Average Onsite Total DPM Emission Rate (grams/m2/sec):

2.36E-08

Annual Average Offsite Total DPM Emission Rate - Road Segment 1 (grams/sec):

2.79E-05

Annual Average Offsite Total DPM Emission Rate - Road Segment 2 (grams/sec):

1.52E-05

Annual Average Offsite Total DPM Emission Rate - Road Segment 3 (grams/sec):

1.53E-05

Annual Average Offsite Total DPM Emission Rate - Road Segment 4 (grams/sec):

1.55E-05

Annual Average Offsite Total DPM Emission Rate - Road Segment 5 (grams/sec):

1.52E-05

Maximum

DPM
(ug/m3)

UTM

X

Y

469594.13

3766418.72

X	Y	Unit Emissions						Onsite	Offsite-Road	Offsite-Road	Offsite-Road	Offsite-Road	Offsite-Road	Total
		VALUES	VALUES	VALUES	VALUES	VALUES	VALUES	Annual DPM	Segment 1	Segment 2	Segment 3	Segment 4	Segment 5	
		AVERAGED	AVERAGED	AVERAGED	AVERAGED	AVERAGED	AVERAGED	Exhaust w/Actual	Exhaust w/Actual	Exhaust w/Actual	Exhaust w/Actual	Exhaust w/Actual	Exhaust w/Actual	
		SITE AREA	ROAD 1	ROAD 2	ROAD 3	ROAD 4	ROAD 5	Emissions (ug/m3)	Emissions (ug/m3)	Emissions (ug/m3)	Emissions (ug/m3)	Emissions (ug/m3)	Emissions (ug/m3)	DPM (ug/m3)
469594.13	3766418.72	1904213.34	0.7535	0.3871	2.5248	2.2619	0.3989	4.49E-02	2.11E-05	5.90E-06	3.87E-05	3.50E-05	6.08E-06	4.5014E-02
469574.86	3766418.61	1902771.34	0.7311	0.3860	2.7983	2.4923	0.3981	4.49E-02	2.04E-05	5.88E-06	4.29E-05	3.86E-05	6.07E-06	4.4987E-02
469664.53	3766220.16	1899909.68	2.7040	0.7422	1.6311	1.5401	0.7569	4.48E-02	7.56E-05	1.13E-05	2.50E-05	2.38E-05	1.15E-05	4.4953E-02
469674.33	3766257.95	1899466.86	2.0873	0.6570	1.6390	1.5355	0.6701	4.48E-02	5.83E-05	1.00E-05	2.51E-05	2.38E-05	1.02E-05	4.4923E-02
469679.23	3766276.84	1899279.59	1.8533	0.6200	1.6428	1.5333	0.6337	4.48E-02	5.18E-05	9.45E-06	2.52E-05	2.37E-05	9.66E-06	4.4911E-02
469669.43	3766239.06	1897944.71	2.3667	0.6977	1.6354	1.5381	0.7121	4.48E-02	6.61E-05	1.06E-05	2.51E-05	2.38E-05	1.09E-05	4.4896E-02
469613.39	3766418.84	1892878.50	0.7758	0.3881	2.2928	2.0652	0.3997	4.46E-02	2.17E-05	5.92E-06	3.51E-05	3.20E-05	6.09E-06	4.4741E-02
469659.63	3766201.27	1885990.96	3.1163	0.7888	1.6207	1.5379	0.8037	4.45E-02	8.71E-05	1.20E-05	2.48E-05	2.38E-05	1.23E-05	4.4638E-02
469555.60	3766418.50	1885432.06	0.7085	0.3844	3.1190	2.7605	0.3966	4.45E-02	1.98E-05	5.86E-06	4.78E-05	4.27E-05	6.05E-06	4.4587E-02
469684.13	3766295.74	1880556.49	1.6562	0.5839	1.6376	1.5243	0.5972	4.43E-02	4.63E-05	8.90E-06	2.51E-05	2.36E-05	9.10E-06	4.4463E-02
469654.73	3766182.38	1878554.41	3.6262	0.8402	1.6111	1.5368	0.8549	4.43E-02	1.01E-04	1.28E-05	2.47E-05	2.38E-05	1.30E-05	4.4478E-02
469649.83	3766163.48	1858511.21	4.2681	0.8941	1.5932	1.5313	0.9086	4.38E-02	1.19E-04	1.36E-05	2.44E-05	2.37E-05	1.38E-05	4.4025E-02
469689.03	3766314.63	1855533.44	1.4880	0.5522	1.6353	1.5177	0.5647	4.38E-02	4.16E-05	8.42E-06	2.50E-05	2.35E-05	8.61E-06	4.3867E-02
469632.66	3766418.95	1851477.62	0.7978	0.3885	2.0903	1.8925	0.3999	4.37E-02	2.23E-05	5.92E-06	3.20E-05	2.93E-05	6.10E-06	4.3759E-02
469644.93	3766144.59	1832553.70	0.5084	0.9504	1.5692	1.5196	0.9642	4.32E-02	1.42E-04	1.45E-05	2.40E-05	2.35E-05	1.47E-05	4.3436E-02
469693.93	3766333.52	1821966.29	1.3443	0.5214	1.6262	1.5060	0.5335	4.30E-02	3.76E-05	7.95E-06	2.49E-05	2.33E-05	8.13E-06	4.3070E-02
469651.92	3766419.06	1772663.54	0.8196	0.3886	1.9145	1.7418	0.3996	4.18E-02	2.29E-05	5.92E-06	2.93E-05	2.70E-05	6.09E-06	4.1896E-02
469698.83	3766352.42	1764555.16	1.2200	0.4935	1.6171	1.4949	0.5050	4.16E-02	3.41E-05	7.52E-06	2.48E-05	2.31E-05	7.70E-06	4.1711E-02
469703.74	3766371.31	1668024.17	1.1121	0.4676	1.6059	1.4830	0.4787	3.93E-02	3.11E-05	7.13E-06	2.46E-05	2.30E-05	7.30E-06	3.9430E-02
469671.19	3766419.18	1625139.48	0.8401	0.3885	1.7614	1.6099	0.3992	3.83E-02	2.35E-05	5.92E-06	2.70E-05	2.49E-05	6.09E-06	3.8413E-02
469663.59	3766139.75	1416165.36	5.7153	0.9174	1.4110	1.3729	0.9286	3.34E-02	1.60E-04	1.40E-05	2.16E-05	2.13E-05	1.42E-05	3.3628E-02
469668.49	3766158.64	1409377.45	4.7412	0.8632	1.4240	1.3771	0.8753	3.32E-02	1.33E-04	1.32E-05	2.18E-05	2.13E-05	1.33E-05	3.3400E-02
469673.39	3766177.53	1407182.00	3.9912	0.8116	1.4337	1.3786	0.8243	3.32E-02	1.12E-04	1.24E-05	2.20E-05	2.13E-05	1.26E-05	3.3366E-02
469678.30	3766196.43	1401928.38	3.4017	0.7627	1.4403	1.3778	0.7757	3.31E-02	9.51E-05	1.16E-05	2.21E-05	2.13E-05	1.18E-05	3.3224E-02
469683.20	3766215.32	1395553.56	2.9312	0.7171	1.4451	1.3759	0.7303	3.29E-02	8.19E-05	1.09E-05	2.21E-05	2.13E-05	1.11E-05	3.3059E-02
469688.10	3766234.21	1387353.47	2.5503	0.6747	1.4483	1.3730	0.6879	3.27E-02	7.13E-05	1.03E-05	2.22E-05	2.13E-05	1.05E-05	3.2854E-02
469693.00	3766253.11	1376357.15	2.2373	0.6351	1.4491	1.3686	0.6481	3.25E-02	6.25E-05	9.68E-06	2.22E-05	2.12E-05	9.88E-06	3.2584E-02
469697.90	3766272.00	1360613.16	1.9770	0.5978	1.4465	1.3615	0.6106	3.21E-02	5.52E-05	9.11E-06	2.22E-05	2.11E-05	9.31E-06	3.2205E-02
469702.80	3766290.90	1343879.36	1.7588	0.5633	1.4422	1.3534	0.5757	3.17E-02	4.92E-05	8.59E-06	2.21E-05	2.10E-05	8.78E-06	3.1803E-02
469613.28	3766438.12	1341577.37	0.7167	0.3660	2.3021	2.0713	0.3769	3.16E-02	2.00E-05	5.58E-06	3.53E-05	3.21E-05	5.75E-06	3.1737E-02
469594.01	3766438.01	1341558.45	0.6973	0.3650	2.5366	2.2703	0.3761	3.16E-02	1.95E-05	5.56E-06	3.89E-05	3.52E-05	5.73E-06	3.1743E-02
469574.75	3766437.90	1328391.28	0.6778	0.3637	2.8105	2.5013	0.3750	3.13E-02	1.89E-05	5.55E-06	4.30E-05	3.87E-05	5.72E-06	3.1440E-02
469707.70	3766309.79	1322768.35	1.5742	0.5311	1.4351	1.3432	0.5431	3.12E-02	4.40E-05	8.10E-06	2.20E-05	2.08E-05	8.28E-06	3.1298E-02
469632.54	3766438.24	1321199.89	0.7357	0.3663	2.0973	1.8965	0.3770	3.12E-02	2.06E-05	5.58E-06	3.21E-05	2.94E-05	5.75E-06	3.1252E-02
469555.48	3766437.78	1301904.71	0.6580	0.3621	3.1324	2.7709	0.3734	3.07E-02	1.84E-05	5.52E-06	4.80E-05	4.29E-05	5.69E-06	3.0824E-02
469712.60	3766328.68	1298293.43	1.4171	0.5015	1.4273	1.3329	0.5131	3.06E-02	3.96E-05	7.65E-06	2.19E-05	2.06E-05	7.82E-06	3.0715E-02
469651.81	3766438.35	1282069.15	0.7536	0.3668	1.9214	1.7456	0.3772	3.02E-02	2.11E-05	5.59E-06	2.94E-05	2.70E-05	5.75E-06	3.0324E-02
469536.22	3766437.67	1265570.78	0.6381	0.3603	3.5190	3.0922	0.3717	2.98E-02	1.78E-05	5.49E-06	5.39E-05	4.79E-05	5.67E-06	2.9977E-02
469717.50	3766347.58	1265335.43	1.2825	0.4743	1.4187	1.3222	0.4854	2.98E-02	3.58E-05	7.23E-06	2.17E-05	2.05E-05	7.40E-06	2.9933E-02
469686.41	3766431.02	1242511.82	0.8136	0.3756	1.6592	1.5202	0.3857	2.93E-02	2.27E-05	5.73E-06	2.54E-05	2.35E-05	5.88E-06	2.9386E-02
469722.40	3766366.47	1206933.08	1.1639	0.4479	1.4036	1.3059	0.4585	2.85E-02	3.25E-05	6.83E-06	2.15E-05	2.02E-05	6.99E-06	2.8551E-02
469723.85	3766402.05	1178863.73	0.9816	0.4189	1.4712	1.3620	0.4288	2.78E-02	2.74E-05	6.39E-06	2.25E-05	2.11E-05	6.25E-06	2.7885E-02
469682.26	3766134.90	1155897.99	6.3955	0.8912	1.2850	1.2580	0.8999	2.73E-02	1.79E-04	1.36E-05	1.97E-05	1.95E-05	1.37E-05	2.7505E-02
469687.16	3766153.80	1153825.21	5.2596	0.8414	1.2979	1.2630	0.8512	2.72E-02	1.47E-04	1.28E-05	1.99E-05	1.96E-05	1.30E-05	2.7423E-02
469692.06	3766172.69	1150379.90	4.3925	0.7937	1.3077	1.2655	0.8043	2.71E-02	1.23E-04	1.21E-05	2.00E-05	1.96E-05	1.23E-05	2.7316E-02
469696.96	3766191.58	1146641.98	3.7177	0.7485	1.3157	1.2666	0.7596	2.70E-02	1.04E-04	1.14E-05	2.02E-05	1.96E-05	1.16E-05	2.7208E-02
469701.86	3766210.48	1144002.66	3.1842	0.7065	1.3233	1.2678	0.7179	2.70E-02	8.90E-05	1.08E-05	2.03E-05	1.96E-05	1.09E-05	2.7130E-02
469706.77	3766229.37	1139189.02	2.7552	0.6669	1.3287	1.2674	0.6785	2.69E-02	7.70E-05	1.02E-05	2.04E-05	1.96E-05	1.03E-05	2.7003E-02
469711.67	3766248.27	1130451.50	2.4044	0.6292	1.3307	1.2644	0.6409	2.67E-02	6.72E-05	9.59E-06	2.04E-05	1.96E-05	9.77E-06	2.6786E-02
469716.57	3766267.16	1119533.26	2.1151	0.5940	1.3306	1.2599	0.6055	2.64E-02	5.91E-05	9.06E-06	2.04E-05	1.95E-05	9.23E-06	2.6519E-02
469721.47	3766286.05	1106768.10	1.8742	0.5610	1.3287	1.2541	0.5724	2.61E-02	5.24E-05	8.55E-06	2.04E-05	1.94E-05	8.73E-06	2.6211E-02
469726.37	3766304.95	1090264.33	1.6711	0.5301	1.3243	1.2464	0.5412	2.57E-02	4.67E-05	8.08E-06	2.03E-05	1.93E-05	8.25E-06	2.5815E-02
469731.27	3766323.84	1068844.91	1.4974	0.5011	1.3175	1.2370	0.5119	2.52E-02	4.18E-05	7.64E-06	2.02E-05	1.92E-05	7.80E-06	2.5303E-02
469736.17	3766342.73	1040893.40	1.3504	0.4741	1.3095	1.2267	0.4846	2.45E-02	3.77E-05	7.23E-06	2.01E-05	1.90E-05	7.39E-06	2.4639E-02
469613.17	3766457.41	1012403.53	0.6644	0.3461	2.3106	2.0770	0.3563	2.39E-02	1.86E-05	5.28E-06	3.54E-05			

469651.58	3766476.92	784544.66	0.6460	0.3288	1.9314	1.7507	0.3380	1.85E-02	1.81E-05	5.01E-06	2.96E-05	2.71E-05	5.15E-06	1.8587E-02
469768.61	3766314.16	782673.19	1.6694	0.4977	1.1317	1.0730	0.5069	1.85E-02	4.67E-05	7.59E-06	1.73E-05	1.66E-05	7.73E-06	1.8554E-02
469593.79	3766476.58	781970.60	0.6030	0.3266	2.5506	2.2796	0.3362	1.84E-02	1.69E-05	4.98E-06	3.91E-05	3.53E-05	5.12E-06	1.8543E-02
469574.29	3766425.74	781877.43	0.9013	0.3770	1.2751	1.1854	0.3859	1.84E-02	2.52E-05	5.75E-06	1.95E-05	1.84E-05	5.88E-06	1.8514E-02
469773.51	3766333.05	764160.04	1.4946	0.4721	1.1262	1.0651	0.4811	1.80E-02	4.18E-05	7.20E-06	1.73E-05	1.65E-05	7.33E-06	1.8111E-02
469574.52	3766476.47	761816.01	0.5878	0.3249	2.8229	2.5097	0.3346	1.80E-02	1.64E-05	4.95E-06	4.32E-05	3.89E-05	5.10E-06	1.8075E-02
469732.06	3766466.56	750223.61	0.7417	0.3626	1.5007	1.3798	0.3711	1.77E-02	2.07E-05	5.53E-06	2.30E-05	2.14E-05	5.66E-06	1.7769E-02
469778.41	3766351.94	740069.64	1.3441	0.4479	1.1188	1.0556	0.4567	1.75E-02	3.76E-05	6.83E-06	1.71E-05	1.63E-05	6.96E-06	1.7538E-02
469555.26	3766476.36	737583.46	0.5726	0.3238	3.1524	2.7865	0.3336	1.74E-02	1.60E-05	4.94E-06	4.83E-05	4.31E-05	5.08E-06	1.7512E-02
469743.17	3766139.27	725616.49	6.8866	0.7728	1.0008	0.9892	0.7767	1.71E-02	1.92E-04	1.18E-05	1.53E-05	1.53E-05	1.18E-05	1.7359E-02
469748.07	3766158.16	724505.21	5.6634	0.7364	1.0123	0.9954	0.7414	1.71E-02	1.58E-04	1.12E-05	1.55E-05	1.54E-05	1.13E-05	1.7298E-02
469752.97	3766177.06	723198.83	4.7208	0.7012	1.0224	1.0004	0.7072	1.71E-02	1.32E-04	1.07E-05	1.57E-05	1.55E-05	1.08E-05	1.7240E-02
469757.87	3766195.95	721667.15	3.9866	0.6675	1.0314	1.0045	0.6743	1.70E-02	1.11E-04	1.02E-05	1.58E-05	1.56E-05	1.03E-05	1.7182E-02
469762.77	3766214.85	720562.04	3.4052	0.6358	1.0405	1.0088	0.6431	1.70E-02	9.52E-05	9.69E-06	1.59E-05	1.56E-05	9.80E-06	1.7139E-02
469767.67	3766233.74	717829.63	2.9372	0.6052	1.0472	1.0111	0.6129	1.69E-02	8.21E-05	9.23E-06	1.60E-05	1.57E-05	9.34E-06	1.7061E-02
469779.86	3766387.52	714524.26	1.1067	0.4083	1.1336	1.0641	0.4170	1.69E-02	3.09E-05	6.23E-06	1.74E-05	1.65E-05	6.36E-06	1.6928E-02
469772.57	3766252.63	713427.14	2.5557	0.5758	1.0518	1.0117	0.5838	1.68E-02	7.14E-05	8.78E-06	1.61E-05	1.57E-05	8.90E-06	1.6946E-02
469777.47	3766271.53	706856.44	2.2404	0.5475	1.0540	1.0102	0.5557	1.67E-02	6.26E-05	8.35E-06	1.61E-05	1.56E-05	8.47E-06	1.6781E-02
469535.99	3766476.24	703746.04	0.5572	0.3220	3.5395	3.1091	0.3317	1.66E-02	1.56E-05	4.91E-06	5.42E-05	4.81E-05	5.06E-06	1.6724E-02
469772.96	3766420.90	698571.51	0.9362	0.3779	1.1847	1.1058	0.3864	1.65E-02	2.62E-05	5.76E-06	1.81E-05	1.71E-05	5.89E-06	1.6548E-02
469782.37	3766290.42	698119.29	1.9788	0.5205	1.0542	1.0071	0.5288	1.65E-02	5.53E-05	7.94E-06	1.61E-05	1.56E-05	8.06E-06	1.6567E-02
469701.40	3766481.44	698069.21	0.6742	0.3300	1.5884	1.4541	0.3386	1.65E-02	1.88E-05	5.03E-06	2.43E-05	2.25E-05	5.16E-06	1.6539E-02
469787.27	3766309.31	686596.81	1.5759	0.4947	1.0522	1.0022	0.5030	1.62E-02	4.91E-05	7.54E-06	1.61E-05	1.55E-05	7.67E-06	1.6288E-02
469792.17	3766328.21	671663.50	1.5685	0.4970	1.0482	0.9957	0.4783	1.58E-02	4.38E-05	7.17E-06	1.61E-05	1.54E-05	7.29E-06	1.5930E-02
469797.07	3766347.10	652570.40	1.4067	0.4467	1.0425	0.9879	0.4548	1.54E-02	3.93E-05	6.81E-06	1.60E-05	1.53E-05	6.93E-06	1.5474E-02
469632.21	3766496.09	640588.79	0.5882	0.3110	2.1071	1.9001	0.3197	1.51E-02	1.64E-05	4.74E-06	3.23E-05	2.94E-05	4.87E-06	1.4795E-02
469761.83	3766134.43	639221.66	7.4022	0.7496	0.9230	0.9161	0.7520	1.51E-02	2.07E-04	1.14E-05	1.41E-05	1.42E-05	1.15E-05	1.5333E-02
469651.47	3766496.20	639216.24	6.0005	0.3117	1.9307	1.7484	0.3204	1.51E-02	1.68E-05	4.75E-06	2.96E-05	2.71E-05	4.88E-06	1.5158E-02
469766.73	3766153.32	638853.06	6.0693	0.7166	0.9348	0.9233	0.7201	1.51E-02	1.70E-04	1.09E-05	1.43E-05	1.43E-05	1.10E-05	1.5286E-02
469771.64	3766172.22	637413.60	5.0467	0.6840	0.9442	0.9282	0.6885	1.50E-02	1.41E-04	1.04E-05	1.45E-05	1.44E-05	1.05E-05	1.5223E-02
469776.54	3766191.11	637148.39	4.2518	0.6533	0.9547	0.9340	0.6587	1.50E-02	1.19E-04	9.96E-06	1.46E-05	1.45E-05	1.00E-05	1.5194E-02
469766.06	3766454.28	636570.92	0.8017	0.3492	1.2316	1.1440	0.3574	1.50E-02	2.24E-05	5.32E-06	1.89E-05	1.77E-05	5.45E-06	1.5082E-02
469781.44	3766210.00	635788.87	3.6209	0.6236	0.9631	0.9381	0.6295	1.50E-02	1.01E-04	9.51E-06	1.48E-05	1.45E-05	9.60E-06	1.5144E-02
469747.28	3766478.41	635637.35	0.7191	0.3441	1.3839	1.2772	0.3521	1.50E-02	2.01E-05	5.25E-06	2.12E-05	1.98E-05	5.37E-06	1.5062E-02
469612.94	3766495.98	635423.25	0.5762	0.3102	2.3117	2.0751	0.3191	1.50E-02	1.61E-05	4.73E-06	3.54E-05	3.21E-05	4.86E-06	1.5079E-02
469798.53	3766382.68	634694.05	1.1546	0.4086	1.0580	0.9972	0.4168	1.50E-02	3.23E-05	6.23E-06	1.62E-05	1.54E-05	6.35E-06	1.5045E-02
469786.34	3766228.90	633994.38	3.1152	0.5951	0.9707	0.9416	0.6016	1.50E-02	8.71E-05	9.07E-06	1.49E-05	1.46E-05	9.17E-06	1.5086E-02
469670.74	3766496.32	632156.25	0.6130	0.3130	1.7802	1.6186	0.3215	1.49E-02	1.71E-05	4.77E-06	2.73E-05	2.51E-05	4.90E-06	1.4987E-02
469791.24	3766247.79	630557.25	2.7039	0.5675	0.9761	0.9431	0.5744	1.49E-02	7.56E-05	8.65E-06	1.50E-05	1.46E-05	8.76E-06	1.4993E-02
469791.63	3766416.06	628305.70	0.9727	0.3789	1.1049	1.0354	0.3870	1.48E-02	2.72E-05	5.78E-06	1.69E-05	1.60E-05	5.90E-06	1.4889E-02
469796.14	3766266.68	625289.74	2.3649	0.5408	0.9791	0.9427	0.5480	1.47E-02	6.61E-05	8.25E-06	1.50E-05	1.46E-05	8.35E-06	1.4859E-02
469593.67	3766495.87	623122.57	0.5630	0.3091	2.5472	2.2754	0.3180	1.47E-02	1.57E-05	4.71E-06	3.90E-05	3.52E-05	4.85E-06	1.4795E-02
469801.04	3766285.58	618759.39	2.0838	0.5155	0.9811	0.9415	0.5228	1.46E-02	5.82E-05	7.86E-06	1.50E-05	1.46E-05	7.97E-06	1.4696E-02
469716.62	3766493.28	614214.85	0.6554	0.3232	1.5130	1.3877	0.3314	1.45E-02	1.83E-05	4.93E-06	2.32E-05	2.15E-05	5.05E-06	1.4558E-02
469805.94	3766304.47	609679.49	1.8471	0.4910	0.9808	0.9383	0.4985	1.44E-02	5.16E-05	7.49E-06	1.50E-05	1.45E-05	7.60E-06	1.4474E-02
469574.41	3766495.75	605538.12	0.5497	0.3081	2.8243	2.5098	0.3170	1.43E-02	1.54E-05	4.70E-06	4.33E-05	3.89E-05	4.83E-06	1.4388E-02
469810.84	3766323.36	597691.35	1.6457	0.4675	0.9784	0.9334	0.4750	1.41E-02	4.60E-05	7.13E-06	1.50E-05	1.45E-05	7.24E-06	1.4185E-02
469784.73	3766449.44	588362.20	0.8308	0.3510	1.1490	1.0713	0.3589	1.39E-02	2.32E-05	5.35E-06	1.76E-05	1.66E-05	5.47E-06	1.3944E-02
469555.14	3766495.64	583727.92	0.5364	0.3073	3.1574	2.7898	0.3163	1.38E-02	1.50E-05	4.68E-06	4.84E-05	4.32E-05	4.82E-06	1.3882E-02
469815.74	3766342.26	582634.52	1.4731	0.4452	0.9746	0.9273	0.4526	1.37E-02	4.12E-05	6.79E-06	1.49E-05	1.44E-05	6.90E-06	1.3825E-02
469812.76	3766399.30	571536.14	1.0747	0.3899	1.0180	0.9597	0.3975	1.35E-02	3.00E-05	5.94E-06	1.56E-05	1.49E-05	6.06E-06	1.3551E-02
469816.70	3766380.22	570570.47	1.1899	0.4066	0.9936	0.9398	0.4142	1.35E-02	3.33E-05	6.20E-06	1.52E-05	1.46E-05	6.31E-06	1.3531E-02
469785.40	3766148.48	567493.79	6.4476	0.6960	0.8639	0.8567	0.6982	1.34E-02	1.80E-04	1.06E-05	1.32E-05	1.33E-05	1.06E-05	1.3611E-02
469790.30	3766167.37	567492.83	5.3542	0.6667	0.8749	0.8635	0.6699	1.34E-02	1.50E-04	1.02E-05	1.34E-05	1.34E-05	1.02E-05	1.3580E-02
469795.20	3766186.27	566825.05	4.5019	0.6380	0.8843	0.8687	0.6421	1.34E-02	1.26E-04	9.73E-06	1.35E-05	1.35E-05	9.79E-06	1.3540E-02
469800.10	3766205.16	565786.06	3.8269	0.6103	0.8927	0.8732	0.6151	1.33E-02	1.07E-04	9.31E-06	1.37E-05	1.35E-05	9.38E-06	1.3496E-02
469820.64	3766361.15	564698.57	1.3269	0.4243	0.9704	0.9212	0.4317	1.33E-02	7.31E-05	6.47E-06	1.49E-05	1.43E-05	6.58E-06	1.3377E-02
469685.95	3766508.16	560521.57	0.5972	0.3049	1.6761	1.5276	0.3130	1.32E-02	1.67E-05	4.65E-06	2.57E-05	2.37E-05	4.77E-06	1.3294E-02
469535.88	3766495.53	557434.87	0.5229	0.3064	3.5577	3.1239	0.3155	1.31E-02	1.46E-05	4.67E-06	5.45E-05	4.84E-05	4.81E-06	1.3273E-02
469804.88	3766437.44	551321.84	0.8919	0.3586	1.0673	1.0000	0.3662	1.30E-02	2.49E-05	5.47E-06	1.63E-05	1.55E-05	5.58E-06	1.3070E-02
469762.50	3766490.25	539892.84	0.6934	0.3244	1.2757	1.1802	0.3320	1.27E-02	1.94E-05	4.95E-06	1.95E-05	1.83E-05	5.06E-06	1.2800E-02
469651.36	3766515.49	530986.90	0.5599	0.2963	1.9298	1.7461	0.3044	1.25E-02	1.56E-05	4.52E-06	2.96E-05	2.70E-05	4.64E-06	1.2604E-02
469632.09	3766515.38	528118.21	0.5490	0.2954	2.1050	1.8968	0.3036	1.25E-02	1.53E-05	4.50E-06	3.22E-05	2.94E-05	4.63E-06	1.2541E-02
469612.83	3766515.26	520339.15	0.5380	0.2944	2.30									

469651.25	3766534.78	447011.71	0.5237	0.2819	1.9258	1.7409	0.2895	1.05E-02	1.46E-05	4.30E-06	2.95E-05	2.70E-05	4.41E-06	1.0622E-02
469861.94	3766289.94	446874.50	2.1040	0.4750	0.8006	0.7750	0.4799	1.05E-02	5.88E-05	7.24E-06	1.23E-05	1.20E-05	7.32E-06	1.0636E-02
469798.23	3766044.33	443789.13	24.2074	0.7703	0.6649	0.6795	0.7626	1.05E-02	6.77E-04	1.17E-05	1.02E-05	1.05E-05	1.16E-05	1.1187E-02
469631.80	3766534.66	441615.16	0.5137	0.2807	2.0987	1.8896	0.2884	1.04E-02	1.44E-05	4.28E-06	3.21E-05	2.93E-05	4.40E-06	1.0499E-02
469265.88	3766155.70	440738.32	0.7311	1.0746	36.6999	52.4234	1.1345	1.04E-02	2.04E-05	1.64E-05	5.62E-04	1.1345	1.73E-05	1.1822E-02
469866.85	3766308.84	440410.90	1.8675	0.4548	0.8013	0.7734	0.4600	1.04E-02	5.22E-05	6.93E-06	1.23E-05	1.20E-05	7.01E-06	1.0477E-02
469793.33	3766025.43	439479.68	34.5253	0.7910	0.6456	0.6628	0.7812	1.04E-02	9.65E-04	1.21E-05	9.89E-06	1.03E-05	1.19E-05	1.1376E-02
469865.26	3766401.70	435316.12	1.1083	0.3764	0.8621	0.8193	0.3826	1.03E-02	3.10E-05	5.74E-06	1.32E-05	1.27E-05	5.83E-06	1.0335E-02
469773.77	3766523.24	435170.90	0.6179	0.3020	1.2401	1.1464	0.3090	1.03E-02	1.73E-05	4.60E-06	1.90E-05	1.78E-05	4.71E-06	1.0326E-02
469869.06	3766383.34	434288.30	1.2205	0.3901	0.8425	0.8032	0.3962	1.02E-02	3.41E-05	5.95E-06	1.29E-05	1.24E-05	6.04E-06	1.0313E-02
469788.43	3766006.54	433778.59	53.4940	0.8093	0.6241	0.6434	0.7974	1.02E-02	1.49E-03	1.23E-05	9.56E-06	9.96E-06	1.22E-05	1.1769E-02
469871.75	3766327.73	433214.35	1.6692	0.4361	0.8024	0.7723	0.4414	1.02E-02	4.66E-05	6.65E-06	1.23E-05	1.20E-05	6.73E-06	1.0301E-02
469612.71	3766534.55	433084.81	0.5044	0.2799	2.3011	2.0629	0.2876	1.02E-02	1.41E-05	4.27E-06	3.52E-05	3.19E-05	4.38E-06	1.0303E-02
469861.47	3766420.05	432746.64	1.1012	0.3628	0.8810	0.8348	0.3692	1.02E-02	2.82E-05	5.53E-06	1.35E-05	1.29E-05	5.63E-06	1.0271E-02
469268.79	3766173.91	431396.95	0.7102	0.9636	37.1968	69.5143	1.0166	1.02E-02	1.98E-05	1.47E-05	5.70E-04	1.08E-03	1.55E-05	1.1870E-02
469791.02	3766514.87	431131.45	0.6465	0.3058	1.1623	1.0784	0.3127	1.02E-02	1.81E-05	4.66E-06	1.78E-05	1.67E-05	4.77E-06	1.0229E-02
469872.85	3766364.98	430203.50	1.3491	0.4039	0.8221	0.7865	0.4097	1.01E-02	3.77E-05	6.16E-06	1.26E-05	1.22E-05	6.24E-06	1.0202E-02
469831.15	3766481.27	429167.98	0.7601	0.3246	1.0044	0.9407	0.3313	1.01E-02	2.12E-05	4.95E-06	1.54E-05	1.46E-05	5.05E-06	1.0182E-02
469783.53	3765987.65	427032.48	96.5282	0.8255	0.6011	0.6221	0.8112	1.01E-02	2.69E-03	1.26E-05	9.21E-06	9.63E-06	1.24E-05	1.2805E-02
469516.50	3766514.70	423805.08	0.4795	0.2922	4.0605	3.5407	0.3010	9.99E-03	1.34E-05	4.46E-06	6.22E-05	5.48E-05	4.59E-06	1.0134E-02
469876.65	3766346.63	423727.00	1.4971	0.4177	0.8014	0.7694	0.4232	9.99E-03	4.18E-05	6.37E-06	1.23E-05	1.19E-05	6.45E-06	1.0072E-02
469271.79	3766192.11	421630.39	0.6886	0.8681	36.8674	66.4947	0.9141	9.94E-03	1.92E-05	1.32E-05	5.65E-04	1.03E-03	1.39E-05	1.1584E-02
469593.45	3766534.44	420980.24	0.4948	0.2790	2.5364	2.2631	0.2867	9.93E-03	1.38E-05	4.25E-06	3.89E-05	3.50E-05	4.37E-06	1.0024E-02
469687.92	3766545.67	415897.76	0.5257	0.2796	1.6692	1.5188	0.2869	9.81E-03	1.47E-05	4.26E-06	2.56E-05	2.35E-05	4.37E-06	9.8806E-03
469856.11	3766190.63	415644.28	4.3427	0.5688	0.7198	0.7117	0.5704	9.80E-03	1.21E-04	8.67E-06	1.10E-05	1.10E-05	8.70E-06	9.9630E-03
469861.01	3766209.53	414991.56	3.7229	0.5472	0.7270	0.7160	0.5496	9.79E-03	1.04E-04	8.34E-06	1.11E-05	1.11E-05	8.38E-06	9.9298E-03
469846.31	3766152.85	414660.85	6.0769	0.6121	0.7009	0.6988	0.6121	9.78E-03	1.70E-04	9.33E-06	1.07E-05	1.08E-05	9.33E-06	9.9891E-03
469851.21	3766171.74	414534.04	5.1055	0.5895	0.7092	0.7041	0.5904	9.78E-03	1.43E-04	8.99E-06	1.09E-05	1.09E-05	9.00E-06	9.9585E-03
469865.91	3766228.42	414060.17	3.2205	0.5265	0.7338	0.7200	0.5294	9.76E-03	9.00E-05	8.03E-06	1.12E-05	1.11E-05	8.07E-06	9.8934E-03
469841.41	3766133.95	413354.34	7.3177	0.6339	0.6897	0.6906	0.6328	9.75E-03	2.05E-04	9.66E-06	1.06E-05	1.07E-05	9.65E-06	9.9330E-03
469870.81	3766247.31	413231.98	2.8113	0.5069	0.7412	0.7247	0.5103	9.75E-03	7.86E-05	7.73E-06	1.14E-05	1.12E-05	7.78E-06	9.8620E-03
469836.51	3766115.06	411506.99	8.9432	0.6556	0.6772	0.6810	0.6533	9.70E-03	2.50E-04	9.99E-06	1.04E-05	1.05E-05	9.96E-06	9.7955E-03
469274.79	3766210.32	411010.36	0.6664	0.7875	36.8638	63.9829	0.8276	9.69E-03	1.86E-05	1.20E-05	5.65E-04	9.91E-04	1.26E-05	1.1292E-02
469827.32	3766499.81	409315.67	0.7054	0.3139	1.0285	0.9611	0.3205	9.65E-03	1.97E-05	4.79E-06	1.58E-05	1.49E-05	4.89E-06	9.7130E-03
469831.60	3766096.17	408961.22	11.1357	0.6766	0.6630	0.6698	0.6730	9.64E-03	3.11E-04	1.03E-05	1.02E-05	1.04E-05	1.03E-05	9.9969E-03
469850.09	3766475.13	407156.88	0.7920	0.3275	0.9462	0.8893	0.3339	9.60E-03	2.21E-05	4.99E-06	1.45E-05	1.38E-05	5.09E-06	9.6625E-03
469880.61	3766285.10	406865.84	2.1781	0.4677	0.7489	0.7274	0.4719	9.60E-03	6.09E-05	7.13E-06	1.15E-05	1.13E-05	7.19E-06	9.6931E-03
469772.38	3766543.15	406058.07	0.5751	0.2997	1.2944	1.1931	0.3064	9.58E-03	1.61E-05	4.57E-06	1.98E-05	1.85E-05	4.67E-06	9.6398E-03
469574.18	3766534.32	406021.19	0.4844	0.2782	2.8149	2.4987	0.2859	9.58E-03	1.35E-05	4.24E-06	4.31E-05	3.87E-05	4.36E-06	9.6792E-03
469826.70	3766077.27	405620.14	14.2065	0.6968	0.6472	0.6567	0.6918	9.57E-03	3.97E-04	1.06E-05	9.91E-06	1.02E-05	1.05E-05	1.0004E-02
469201.07	3765889.87	405418.24	0.6805	19.8640	8.1180	35.1816	39.9583	9.56E-03	1.90E-05	3.03E-04	1.24E-04	5.45E-04	6.09E-04	1.1161E-02
469206.57	3765924.94	404246.51	0.7048	13.4930	14.4679	46.0313	17.4436	9.53E-03	1.97E-05	2.06E-04	2.22E-04	7.13E-04	2.66E-04	1.0959E-02
469209.64	3765944.40	403857.04	0.7159	10.1174	18.0154	45.0248	11.6826	9.52E-03	2.00E-05	1.54E-04	2.76E-04	1.78E-04	1.0850E-02	1.0850E-02
469195.58	3765854.80	403281.81	0.6531	23.5159	4.6356	11.4624	57.2330	9.51E-03	1.83E-05	3.59E-04	7.10E-05	1.77E-04	8.72E-04	1.1008E-02
469789.42	3766534.88	402787.98	0.6014	0.3012	1.2051	1.1156	0.3079	9.50E-03	1.68E-05	4.59E-06	1.85E-05	1.73E-05	4.69E-06	9.5609E-03
469806.45	3766526.62	402629.60	0.6288	0.3071	1.1428	1.0611	0.3136	9.50E-03	1.76E-05	4.68E-06	1.75E-05	1.64E-05	4.78E-06	9.5563E-03
469885.51	3766304.00	402584.71	1.9366	0.4495	0.7522	0.7285	0.4540	9.49E-03	5.41E-05	6.85E-06	1.15E-05	1.13E-05	6.92E-06	9.5849E-03
469821.80	3766058.38	402003.64	18.7024	0.7165	0.6307	0.6428	0.7098	9.48E-03	5.23E-04	1.09E-05	9.66E-06	9.95E-06	1.08E-05	1.0045E-02
469884.03	3766396.40	401269.54	1.1504	0.7355	0.8107	0.7732	0.3813	9.46E-03	3.22E-05	5.73E-06	1.24E-05	1.20E-05	5.81E-06	9.5133E-03
469215.97	3765980.10	401009.25	0.7331	5.7721	20.1949	42.5283	6.2941	9.46E-03	2.05E-05	8.80E-05	3.09E-04	6.59E-04	9.59E-05	1.0629E-02
469880.26	3766414.60	400658.54	1.0494	0.3629	0.8291	0.7884	0.3688	9.45E-03	2.93E-05	5.53E-06	1.27E-05	1.22E-05	5.142E-06	9.5142E-03
469219.14	3765997.95	400476.21	0.7383	4.4866	20.3958	42.2736	4.8569	9.44E-03	2.06E-05	6.84E-05	3.12E-04	6.55E-04	7.40E-05	1.0575E-02
469277.78	3766228.52	399422.86	0.6439	0.7191	36.9787	82.1752	0.7543	9.42E-03	1.80E-05	1.10E-05	5.66E-04	1.27E-03	1.15E-05	1.1299E-02
469887.79	3766378.19	399146.83	1.2656	0.3883	0.7918	0.7576	0.3938	9.41E-03	3.54E-05	5.92E-06	1.21E-05	1.17E-05	6.00E-06	9.4843E-03
469816.90	3766039.49	398796.76	25.6701	0.7364	0.6149	0.6293	0.7280	9.40E-03	7.17E-04	1.12E-05	9.42E-06	9.74E-06	1.11E-05	1.0164E-02
469222.31	3766015.80	398670.70	0.7410	3.5457	20.2885	41.3110	3.8237	9.40E-03	2.07E-05	5.41E-05	3.11E-04	6.40E-04	5.83E-05	1.0485E-02
469190.09	3765819.74	398539.02	0.6248	26.5497	2.9343	5.2791	72.8329	9.40E-03	1.75E-05	4.05E-04	4.49E-05	8.17E-05	1.11E-03	1.1058E-02
469876.50	3766432.81	397010.85	0.9605	0.3504	0.8470	0.8030	0.3564	9.36E-03	2.68E-05	5.34E-06	1.30E-05	1.24E-05	5.43E-06	9.4258E-03
469890.41	3766322.89	396375.45	1.7282	0.4314	0.7532	0.7275	0.4361	9.35E-03	4.83E-05	6.58E-06	1.15E-05	1.13E-05	6.65E-06	9.4321E-03
469225.48	3766033.65	395063.12	0.7413	2.8472	19.9112	38.8958	3.0620	9.32E-03	2.07E-05	4.34E-05	3.05E-04	6.02E-04	4.67E-05	1.0335E-02
469891.55	3766359.99	394754.22	1.3974	0.4011	0.7725	0.7416	0.4063	9.31E-03	3.91E-05	6.11E-06	1.18E-05	1.15E-05	6.19E-06	9.3842E-03
469812.00	3766020.59	394507.44	37.6000	0.7545	0.5971	0.6136	0.7442	9.30E-03	1.05E-03	1.15E-05	9.15E-06	9.50E-06	1.13E-05	1.0396E-02
469846.29	3766493.48	392355.20	0.7346	0.3171	0.9692	0.9087	0.3235	9.25E-03	2.05E-05	4.83E-06	1.48E-05	1.41E-05	4.93E-06	9.3122E-03
469228.65	3766051.50</													

469830.67	3766015.75	355181.45	40.8974	0.7193	0.5527	0.5684	0.7087	8.38E-03	1.14E-03	1.10E-05	8.47E-06	8.80E-06	1.08E-05	9.5583E-03
469857.69	3766523.84	355168.80	0.6611	0.3087	0.9850	0.9214	0.3146	8.38E-03	1.85E-05	4.71E-06	1.51E-05	1.43E-05	4.80E-06	8.4334E-03
469593.34	3766553.72	354394.06	0.4649	0.2659	2.5289	2.2548	0.2731	8.36E-03	1.30E-05	4.05E-06	3.87E-05	3.49E-05	4.16E-06	8.4526E-03
469246.77	3766158.83	354225.80	0.7736	0.9891	17.2380	29.1502	1.0458	8.35E-03	1.88E-05	1.51E-05	2.64E-04	4.51E-04	1.59E-05	9.1190E-03
469884.09	3766481.57	353435.98	0.6706	0.3198	0.8579	0.3256	8.34E-03	2.21E-05	4.88E-06	1.31E-05	1.25E-05	4.29E-06	8.3928E-03	9.496E-06
469825.77	3765996.86	349992.74	71.2618	0.7333	0.5349	0.5520	0.7208	8.25E-03	1.99E-03	1.12E-05	8.19E-06	8.55E-06	1.10E-05	1.0284E-02
469516.39	3766533.99	348817.97	0.4525	0.2789	4.0679	3.5449	0.2870	8.23E-03	1.26E-05	4.25E-06	6.23E-05	5.49E-05	4.37E-06	8.3647E-03
469917.79	3766403.99	344665.70	1.1227	0.3603	0.7345	0.7031	0.3652	8.13E-03	3.14E-05	5.49E-06	1.13E-05	1.09E-05	5.57E-06	8.1929E-03
469921.51	3766386.01	343516.46	1.2302	0.3716	0.7184	0.6898	0.3763	8.10E-03	3.44E-05	5.67E-06	1.10E-05	1.07E-05	5.74E-06	8.1687E-03
469176.53	3765857.79	342803.01	0.6051	12.7585	3.9345	8.3718	22.3703	8.08E-03	1.69E-05	1.95E-04	6.03E-05	1.30E-04	3.41E-04	8.8267E-03
469249.76	3766177.04	342770.22	0.6565	0.8807	16.6190	27.0506	0.9287	8.08E-03	1.83E-05	1.34E-05	2.55E-04	4.19E-04	1.42E-05	8.8030E-03
469910.36	3766439.93	342690.22	0.9488	0.3390	0.7694	0.7323	0.3443	8.08E-03	2.65E-05	5.17E-06	1.18E-05	1.13E-05	5.25E-06	8.1418E-03
469182.02	3765892.85	342006.93	0.6286	10.7541	5.9054	15.1005	16.8286	8.07E-03	1.76E-05	1.64E-04	9.05E-05	2.34E-04	2.57E-04	8.8279E-03
469917.95	3766275.42	341665.14	2.3006	0.4520	0.6578	0.6432	0.4548	8.06E-03	6.43E-05	6.89E-06	1.01E-05	9.96E-06	6.93E-06	8.1557E-03
469252.76	3766195.24	341563.60	0.6379	0.8109	17.2587	27.9848	0.8538	8.06E-03	1.78E-05	1.24E-05	2.64E-04	4.33E-04	1.30E-05	8.7960E-03
469171.04	3765822.72	341447.81	0.5805	14.3608	2.7086	4.7099	26.6556	8.05E-03	1.62E-05	2.19E-04	4.15E-05	7.29E-05	4.06E-04	8.8083E-03
469820.47	3766558.27	341380.33	0.5658	0.2925	1.1274	1.0446	0.2985	8.05E-03	1.58E-05	4.46E-06	1.73E-05	1.62E-05	4.55E-06	8.1091E-03
469876.62	3766517.73	341166.58	0.6860	0.3103	0.9278	0.8708	0.3159	8.05E-03	1.92E-05	4.73E-06	1.42E-05	1.35E-05	4.82E-06	8.1022E-03
469925.22	3766368.04	340512.20	1.3510	0.3828	0.7015	0.6757	0.3872	8.03E-03	3.78E-05	5.84E-06	1.07E-05	1.05E-05	5.90E-06	8.1011E-03
469837.20	3766550.16	340470.41	0.5898	0.2970	1.0705	0.9949	0.3028	8.03E-03	1.65E-05	4.53E-06	1.64E-05	1.54E-05	4.62E-06	8.0868E-03
469574.07	3766553.61	340386.31	0.4562	0.2649	2.8041	2.4874	0.2721	8.03E-03	1.28E-05	4.04E-06	4.30E-05	3.85E-05	4.15E-06	8.1298E-03
469164.64	3766575.11	340163.63	0.5423	20.0666	1.5176	2.1346	41.4738	8.02E-03	1.52E-05	3.06E-04	3.22E-05	3.31E-05	6.32E-04	9.0322E-03
469165.88	3765774.82	339951.26	0.5520	17.7544	1.7670	2.6013	35.5054	8.02E-03	1.54E-05	2.71E-04	2.71E-05	4.03E-05	5.41E-04	8.9118E-03
469803.75	3766566.39	339762.30	0.5428	0.2879	1.1898	1.0988	0.2939	8.01E-03	1.52E-05	4.39E-06	1.82E-05	1.70E-05	4.48E-06	8.0720E-03
469187.51	3765927.92	339516.91	0.6490	8.0682	8.5892	19.1796	10.3443	8.01E-03	1.81E-05	1.23E-04	1.32E-04	2.97E-04	1.58E-04	8.7343E-03
469163.41	3765735.39	339444.86	0.5325	23.4104	1.3171	1.7838	49.6433	8.01E-03	1.49E-05	3.57E-04	2.02E-05	2.76E-05	7.57E-04	9.1815E-03
469922.85	3766294.31	339139.29	2.0479	0.4361	0.6623	0.6456	0.4392	8.00E-03	5.72E-05	6.65E-06	1.01E-05	1.00E-05	6.69E-06	8.0887E-03
469167.12	3765794.54	338875.55	0.5619	15.7591	2.0806	3.2351	30.2100	7.99E-03	1.57E-05	2.40E-04	3.19E-05	5.01E-05	4.61E-04	8.7902E-03
469906.65	3766457.90	338755.79	0.8775	0.3289	0.7870	0.7471	0.3343	7.99E-03	2.45E-05	5.01E-06	1.21E-05	1.16E-05	5.10E-06	8.0472E-03
469190.65	3765947.78	338700.22	0.6585	6.5681	10.0366	19.5937	7.7742	7.99E-03	1.84E-05	1.00E-04	1.54E-04	3.03E-04	1.19E-04	8.6818E-03
469162.17	3765715.68	337556.78	0.5227	28.2660	1.1526	1.5132	60.2490	7.96E-03	1.46E-05	4.31E-04	1.77E-05	2.34E-05	9.18E-04	9.3657E-03
469868.94	3766086.48	336496.41	11.4769	0.6268	0.5722	0.5804	0.6218	7.94E-03	3.21E-04	9.56E-06	8.77E-06	8.99E-06	9.48E-06	8.2932E-03
469928.94	3766350.07	336069.47	1.4880	0.3938	0.6844	0.6613	0.3979	7.93E-03	4.16E-05	6.00E-06	1.05E-05	1.02E-05	6.07E-06	8.0000E-03
469196.98	3765983.48	336039.22	0.6726	4.3409	11.4287	19.3235	4.8111	7.92E-03	1.88E-05	6.62E-05	1.75E-04	2.99E-04	7.33E-05	8.5575E-03
469927.75	3766313.20	335733.86	1.8326	0.4206	0.6659	0.6474	0.4240	7.92E-03	5.12E-05	6.41E-06	1.02E-05	1.00E-05	6.46E-06	8.0020E-03
469787.02	3766574.51	335395.47	0.5209	0.2839	1.2570	1.1570	0.2891	7.91E-03	1.46E-05	4.32E-06	1.93E-05	1.79E-05	4.41E-06	8.7902E-03
469200.15	3766001.33	334895.26	0.6768	3.5523	11.7253	19.1876	3.8892	7.90E-03	1.89E-05	5.42E-05	1.80E-04	2.97E-04	5.93E-05	8.5070E-03
469902.93	3766475.87	333278.67	0.8152	0.3194	0.8060	0.7632	0.3249	7.86E-03	2.08E-05	4.87E-06	1.23E-05	1.18E-05	4.95E-06	7.9165E-03
469255.76	3766213.45	333047.79	0.6188	0.7444	17.6051	28.1399	0.7827	7.85E-03	1.73E-05	1.13E-05	2.70E-04	4.36E-04	1.19E-05	8.6003E-03
469203.32	3766019.18	333025.54	0.6790	2.9273	11.8373	18.8869	3.1793	7.85E-03	1.90E-05	4.46E-05	1.81E-04	2.92E-04	4.85E-05	8.4396E-03
469864.04	3766067.59	332560.59	14.6369	0.6420	0.5570	0.5672	0.6357	7.84E-03	4.09E-04	9.79E-06	8.53E-06	8.78E-06	9.69E-06	8.2887E-03
469206.49	3766037.03	331394.35	0.6790	2.4485	11.9217	18.5799	2.6446	7.82E-03	1.90E-05	3.73E-05	1.83E-04	2.88E-04	4.03E-05	8.3823E-03
469899.22	3766493.85	331318.06	0.7639	0.3154	0.8411	0.7942	0.3208	7.81E-03	2.13E-05	4.81E-06	1.29E-05	1.23E-05	4.89E-06	7.8698E-03
469932.65	3766332.10	330659.09	1.6442	0.4049	0.6673	0.6470	0.4086	7.80E-03	4.59E-05	6.17E-06	1.02E-05	1.00E-05	6.23E-06	7.8766E-03
469651.02	3766573.35	329334.99	0.4631	0.2577	1.9200	1.7327	0.2644	7.77E-03	1.29E-05	3.93E-06	2.94E-05	2.68E-05	4.03E-06	7.8439E-03
469859.14	3766048.69	328555.76	19.4186	0.6568	0.5418	0.5537	0.6491	7.75E-03	5.43E-04	1.00E-05	8.30E-06	8.57E-06	9.89E-06	8.3279E-03
469209.66	3766054.88	327620.47	0.6770	2.0590	11.8244	17.9603	2.2145	7.73E-03	1.89E-05	3.14E-05	1.81E-04	2.78E-04	3.38E-05	8.2696E-03
469872.88	3766535.81	327210.22	0.6384	0.3032	0.9553	0.8938	0.3086	7.72E-03	1.78E-05	4.62E-06	1.46E-05	1.38E-05	4.70E-06	7.7723E-03
469854.24	3766029.80	325127.68	27.4400	0.6721	0.5279	0.5414	0.6628	7.67E-03	7.67E-04	1.02E-05	8.09E-06	8.38E-06	1.01E-05	8.4712E-03
469554.81	3766553.50	324816.75	0.4468	0.2642	3.1356	2.7657	0.2714	7.66E-03	1.25E-05	4.03E-06	4.80E-05	4.28E-05	4.14E-06	7.7717E-03
469258.75	3766231.65	322901.53	0.5995	0.6830	17.7120	28.0192	0.7168	7.62E-03	1.68E-05	1.04E-05	2.71E-04	4.34E-04	1.09E-05	7.6838E-03
469212.83	3766072.73	322727.76	0.6729	1.7500	11.6540	17.3172	1.8756	7.61E-03	1.88E-05	2.67E-05	1.79E-04	2.68E-04	2.86E-05	8.1317E-03
469932.84	3766416.66	322360.58	1.0658	0.3487	0.7110	0.6808	0.3534	7.60E-03	2.98E-05	5.32E-06	1.09E-05	1.05E-05	5.39E-06	7.6642E-03
469929.15	3766434.54	322045.89	0.9835	0.3392	0.7288	0.6958	0.3441	7.59E-03	2.75E-05	5.17E-06	1.12E-05	1.08E-05	5.24E-06	7.6547E-03
469631.75	3766573.23	321904.92	0.4548	0.2561	2.0884	1.8772	0.2628	7.59E-03	1.27E-05	3.90E-06	3.20E-05	2.91E-05	4.01E-06	7.6732E-03
469936.54	3766398.78	321094.78	1.1590	0.3584	0.6934	0.6658	0.3629	7.57E-03	3.24E-05	5.46E-06	1.06E-05	1.03E-05	5.53E-06	7.6368E-03
469925.45	3766452.42	320163.31	0.9113	0.3300	0.7469	0.7113	0.3350	7.55E-03	2.55E-05	5.03E-06	1.14E-05	1.10E-05	5.11E-06	7.6085E-03
469940.23	3766380.90	319330.22	1.2682	0.3690	0.6779	0.6529	0.3732	7.53E-03	3.54E-05	5.63E-06	1.04E-05	1.01E-05	5.69E-06	7.5981E-03
469216.00	3766090.58	318162.80	0.6668	1.5111	11.5359	16.9033	1.6130	7.50E-03	1.86E-05	2.30E-05	1.77E-04	2.62E-04	2.46E-05	8.0080E-03
469918.06	3766488.18	317268.86	0.7914	0.3183	0.8019	0.7595	0.3234	7.48E-03	2.21E-05	4.85E-06	1.23E-05	1.18E-05	4.93E-06	7.5382E-03
469921.75	3766470.30	316387.48	0.8457	0.3209	0.7648	0.7265	0.3260	7.46E-03	2.36E-05	4.89E-06	1.17E-05	1.12E-05	4.97E-06	7.5179E-03
469943.93	3766363.02	316048.55	1.3906	0.3794	0.6618	0.6394	0.3832	7.45E-03	3.89E-05	5.78E-06	1.01E-05	9.90E-06	5.84E-06	7.5240E-03
469936.62	3766270.58	315462.80	2.3529	0.4444	0.6193	0.6073	0.4465	7.44E-03	6.58E-05	6.77E-06	9.49E-06	9.40E-06	6.81E-06	7.5379E-03
469891.79	3													

469139.20	3765657.74	287392.06	0.4642	22.7322	0.8121	0.9982	42.0329	6.78E-03	1.30E-05	3.47E-04	1.24E-05	1.55E-05	6.41E-04	7.8058E-03
469178.00	3765986.85	286922.24	0.6198	3.3933	7.5292	11.4625	3.7956	6.77E-03	1.73E-05	5.17E-05	1.15E-04	1.77E-04	5.79E-05	7.1863E-03
469969.11	3766412.14	285061.64	1.1083	0.3440	0.6463	0.6219	0.3479	6.72E-03	3.10E-05	5.24E-06	9.90E-06	9.63E-06	5.30E-06	6.7837E-03
469181.16	3766004.70	285036.87	0.6232	2.8742	7.7601	11.4076	3.1672	6.72E-03	1.74E-05	4.38E-05	1.19E-04	1.77E-04	4.83E-05	7.1271E-03
469969.99	3766322.41	284693.13	1.7125	0.3942	0.5938	0.5791	0.3968	6.71E-03	4.81E-05	6.01E-06	9.10E-06	8.97E-06	6.05E-06	6.7922E-03
469230.73	3766180.17	282776.32	0.6074	0.8280	10.6666	14.6566	0.8735	6.67E-03	1.70E-05	1.26E-05	1.63E-04	2.27E-04	1.33E-05	7.1020E-03
469184.33	3766022.55	282609.95	0.6250	2.4396	7.8846	11.2760	2.6611	6.66E-03	1.75E-05	3.72E-05	1.21E-04	1.75E-04	4.06E-05	7.0554E-03
469137.96	3765638.02	282575.51	0.4556	26.9300	0.7353	0.8901	56.1563	6.66E-03	1.27E-05	4.11E-04	1.13E-05	1.38E-05	8.56E-04	7.9684E-03
469973.02	3766393.23	28251.26	1.2041	0.3523	0.6271	0.6053	0.3559	6.66E-03	3.37E-05	5.37E-06	9.61E-06	9.37E-06	5.42E-06	6.7198E-03
469949.56	3766506.71	282106.85	0.7477	0.3091	0.7581	0.7189	0.3136	6.65E-03	2.09E-05	4.71E-06	1.16E-05	1.11E-05	4.78E-06	6.7061E-03
469851.34	3766581.76	282014.74	0.5343	0.2693	0.9829	0.9164	0.2750	6.65E-03	1.49E-05	4.11E-06	1.51E-05	1.42E-05	4.19E-06	6.7033E-03
469980.16	3766444.15	281970.80	0.9794	0.3386	0.6830	0.6542	0.3423	6.65E-03	2.74E-05	5.16E-06	1.05E-05	1.01E-05	5.22E-06	6.7081E-03
469631.64	3766592.52	280363.83	0.4298	0.2463	2.0885	1.8753	0.2526	6.61E-03	1.20E-05	3.75E-06	3.20E-05	2.90E-05	3.85E-06	6.6925E-03
469187.50	3766040.40	279776.33	0.6251	2.0839	7.9468	11.1040	2.2568	6.60E-03	1.75E-05	3.18E-05	1.22E-04	1.72E-04	3.44E-05	6.6753E-03
469267.74	3766286.27	279239.37	0.5420	0.5256	16.7736	25.5568	0.5486	6.59E-03	1.51E-05	8.01E-06	2.57E-04	3.96E-04	7.2695E-03	
469976.28	3766462.92	278765.37	0.9031	0.3285	0.6946	0.6638	0.3324	6.57E-03	2.52E-05	5.01E-06	1.06E-05	1.03E-05	5.07E-06	6.6304E-03
469976.93	3766374.31	278744.56	1.3143	0.3610	0.6092	0.5899	0.3642	6.57E-03	1.67E-05	5.50E-06	9.33E-06	9.13E-06	5.55E-06	6.6399E-03
469233.73	3766198.37	278446.35	0.5923	0.7629	10.8326	14.8151	0.8025	6.57E-03	1.66E-05	1.16E-05	1.66E-04	2.29E-04	1.22E-05	7.0024E-03
469136.72	3765618.31	277230.67	0.4473	32.1839	0.6703	0.8000	73.3124	6.54E-03	1.25E-05	4.91E-04	1.03E-05	1.24E-05	1.12E-03	8.1813E-03
469190.67	3766058.25	276860.14	0.6233	1.7981	7.9902	10.9505	1.9367	6.53E-03	1.74E-05	2.74E-05	1.22E-04	1.70E-04	2.95E-05	6.8955E-03
469984.04	3766425.38	276785.35	1.0626	0.3418	0.6512	0.6261	0.3454	6.53E-03	2.97E-05	5.21E-06	9.97E-06	9.69E-06	5.26E-06	6.5873E-03
469903.28	3766559.70	276693.69	0.5974	0.2829	0.8607	0.8083	0.2879	6.53E-03	1.67E-05	4.31E-06	1.32E-05	1.25E-05	4.39E-06	6.5764E-03
469834.83	3766589.77	276344.84	0.5133	0.2607	1.0169	0.9448	0.2663	6.52E-03	1.43E-05	3.97E-06	1.56E-05	1.46E-05	4.06E-06	6.5697E-03
469554.69	3766572.78	276121.17	0.4222	0.2523	3.1254	2.7537	0.2590	6.51E-03	1.18E-05	3.85E-06	4.79E-05	4.26E-05	3.95E-06	6.6219E-03
469972.40	3766481.70	275544.23	0.8345	0.3199	0.7107	0.6771	0.3241	6.50E-03	2.33E-05	4.88E-06	1.09E-05	1.05E-05	4.94E-06	6.5527E-03
469980.84	3766355.40	275172.51	1.4436	0.3704	0.5936	0.5766	0.3733	6.49E-03	4.03E-05	5.65E-06	9.09E-06	8.93E-06	5.69E-06	6.5929E-03
469236.73	3766216.58	273674.28	0.5759	0.7044	11.0393	14.9958	0.7401	6.45E-03	1.61E-05	1.07E-05	1.69E-04	2.32E-04	1.13E-05	6.8935E-03
469193.84	3766076.10	273375.02	0.6198	1.5633	7.9987	10.7870	1.6763	6.45E-03	1.73E-05	2.38E-05	1.23E-04	1.67E-04	2.56E-05	6.8033E-03
469612.38	3766592.41	271177.21	0.4222	0.2446	2.2816	2.0399	0.2509	6.40E-03	1.18E-05	3.73E-06	3.49E-05	3.16E-05	3.82E-06	6.4811E-03
469973.95	3766260.89	271048.70	0.4194	0.4280	0.5505	0.5427	0.4290	6.39E-03	6.76E-05	6.53E-06	8.43E-06	8.40E-06	6.54E-06	6.4897E-03
469945.65	3766525.62	270882.47	0.6936	0.2967	0.7611	0.7209	0.3013	6.39E-03	1.94E-05	4.52E-06	1.17E-05	1.12E-05	4.59E-06	6.4396E-03
469984.75	3766336.49	270558.74	1.5873	0.3796	0.5775	0.5628	0.3821	6.38E-03	4.44E-05	5.79E-06	8.85E-06	8.71E-06	5.82E-06	6.4542E-03
469978.85	3766279.78	269745.54	2.1622	0.4146	0.5548	0.5454	0.4160	6.36E-03	6.04E-05	6.32E-06	8.50E-06	8.45E-06	6.34E-06	6.4515E-03
469987.92	3766406.60	269083.90	1.1448	0.3433	0.6159	0.5943	0.3467	6.35E-03	3.20E-05	5.23E-06	9.43E-06	9.20E-06	5.29E-06	6.4070E-03
469197.01	3766093.95	269069.73	0.6146	1.3678	7.9682	10.6050	1.4612	6.35E-03	1.72E-05	2.09E-05	1.22E-04	1.64E-04	2.23E-05	6.6921E-03
469983.75	3766298.68	267919.29	1.9410	0.4015	0.5587	0.5477	0.4032	6.32E-03	5.42E-05	6.12E-06	8.56E-06	8.48E-06	6.15E-06	6.4019E-03
469922.68	3766551.28	267800.48	0.6224	0.2831	0.8053	0.7595	0.2881	6.32E-03	1.74E-05	4.32E-06	1.23E-05	1.18E-05	4.39E-06	6.3658E-03
469883.15	3766585.55	267554.58	0.5392	0.2727	0.9211	0.8605	0.2778	6.31E-03	1.51E-05	4.16E-06	1.41E-05	1.33E-05	4.23E-06	6.3607E-03
469968.52	3766500.47	266798.19	0.7725	0.3069	0.7111	0.6773	0.3112	6.29E-03	2.16E-05	4.68E-06	1.09E-05	1.05E-05	4.74E-06	6.3443E-03
469991.80	3766387.83	265602.43	1.2400	0.3505	0.5966	0.5774	0.3536	6.26E-03	3.47E-05	5.34E-06	9.14E-06	8.94E-06	5.39E-06	6.3272E-03
469988.65	3766317.57	265257.49	1.7482	0.3885	0.5613	0.5489	0.3905	6.26E-03	4.89E-05	5.92E-06	8.60E-06	8.50E-06	5.95E-06	6.3355E-03
469999.01	3766438.45	265119.62	1.0067	0.3360	0.6455	0.6202	0.3394	6.25E-03	2.81E-05	5.12E-06	9.89E-06	9.60E-06	5.17E-06	6.3103E-03
469239.72	3766234.79	264532.93	0.5593	0.6466	11.0315	14.8445	0.6781	6.24E-03	1.56E-05	9.86E-06	1.69E-04	2.30E-04	1.03E-05	6.6732E-03
469866.73	3766593.52	263912.79	0.5195	0.2653	0.9488	0.8851	0.2705	6.22E-03	1.45E-05	4.04E-06	1.45E-05	1.37E-05	4.12E-06	6.2748E-03
469535.43	3766572.67	263734.01	0.4139	0.2533	3.5541	3.1100	0.2600	6.22E-03	1.16E-05	3.86E-06	5.44E-05	4.82E-05	3.96E-06	6.3417E-03
470002.86	3766419.80	262721.21	1.0915	0.3424	0.6240	0.6026	0.3456	6.20E-03	3.05E-05	5.22E-06	9.56E-06	9.33E-06	5.27E-06	6.2557E-03
469124.91	3765737.81	261979.27	0.4670	9.1508	1.2342	1.6445	13.0331	6.18E-03	1.30E-05	1.40E-04	1.89E-05	2.55E-05	1.99E-04	6.5739E-03
469123.67	3765718.10	261742.52	0.4594	10.0184	1.1027	1.4346	14.2332	6.17E-03	1.28E-05	1.53E-04	1.69E-05	2.22E-05	2.17E-04	6.5944E-03
469593.11	3765992.29	260898.88	0.4152	0.2433	2.5106	2.2340	0.2496	6.15E-03	1.16E-05	3.71E-06	3.85E-05	3.46E-05	3.80E-06	6.2471E-03
469122.43	3765698.38	260537.15	0.4522	10.8072	0.9904	1.2593	15.3742	6.14E-03	1.26E-05	1.65E-04	1.52E-05	1.95E-05	2.34E-04	6.5907E-03
469126.15	3765757.53	260532.05	0.4746	8.3304	1.3863	1.8972	11.8730	6.14E-03	1.33E-05	1.27E-04	2.12E-05	2.94E-05	1.81E-04	6.5160E-03
469127.39	3765777.24	259457.82	0.4822	7.6917	1.5646	2.2052	10.9496	6.12E-03	1.35E-05	1.17E-04	2.40E-05	3.41E-05	1.67E-04	6.4746E-03
469202.71	3766128.69	258901.36	0.5988	1.0802	7.8602	10.2552	1.1480	6.11E-03	1.67E-05	1.65E-05	1.20E-04	1.59E-04	1.75E-05	6.4356E-03
469121.19	3765678.66	258667.78	0.4446	12.1416	0.8917	1.1142	17.6292	6.10E-03	1.24E-05	1.85E-04	1.37E-05	1.73E-05	2.69E-04	6.5974E-03
469995.15	3766457.10	258290.38	0.9276	0.3209	0.6408	0.6148	0.3246	6.09E-03	2.59E-05	4.89E-06	9.82E-06	9.52E-06	4.95E-06	6.1464E-03
469941.75	3766544.53	257818.01	0.6438	0.2822	0.7574	0.7158	0.2869	6.08E-03	1.80E-05	4.30E-06	1.16E-05	1.11E-05	4.37E-06	6.1295E-03
469128.63	3765796.96	257634.87	0.4898	7.0906	1.7675	2.5734	10.0376	6.08E-03	1.37E-05	1.08E-04	2.71E-05	3.98E-05	1.53E-04	6.4176E-03
469132.93	3765828.69	257299.36	0.5059	6.4109	2.1851	3.3731	8.9864	6.07E-03	1.41E-05	9.77E-05	3.35E-05	5.22E-05	1.37E-04	6.4025E-03
469999.56	3766350.28	257202.85	1.4717	0.3660	0.5617	0.5471	0.3685	6.07E-03	4.11E-05	5.58E-06	8.60E-06	8.47E-06	5.62E-06	6.1351E-03
469138.42	3765863.76	256960.10	0.5245	5.7143	2.7888	4.5782	7.8119	6.06E-03	1.47E-05	8.71E-05	4.27E-05	7.09E-05	1.19E-04	6.3944E-03
469850.30	3766601.49	256362.78	0.4992	0.2543	0.9692	0.9018	0.2597	6.05E-03	1.39E-05	3.88E-06	1.48E-05	1.40E-05	3.96E-06	6.0965E-03
469964.64	3766519.25	256041.03	0.7152	0.2921	0.7066	0.6713	0.2965	6.04E-03	2.00E-05	4.45E-06	1.08E-05	1.04E-05	4.52E-06	6.0884E-03
469119.95	3766568.95	255877.38	0.4370	13.7131	0.8051	0.9904	20.6919	6.03E-03	1.22E-05	2.09E-04	1.23E-05	1.53E-05	3.15E-04	6.

469174.85	3766079.47	234334.51	0.5728	1.3949	5.9306	7.5255	1.4988	5.53E-03	1.60E-05	2.13E-05	9.08E-05	1.17E-04	2.28E-05	5.7938E-03
469956.88	3766556.80	234311.31	0.6073	0.2670	0.7055	0.6676	0.2715	5.53E-03	1.70E-05	4.07E-06	1.08E-05	1.03E-05	4.14E-06	5.5721E-03
470016.19	3766270.10	234159.88	2.1806	0.3989	0.4954	0.4894	0.3993	5.52E-03	6.09E-05	6.08E-06	7.59E-06	7.58E-06	6.09E-06	5.6105E-03
469979.73	3766531.71	234127.31	0.6731	0.2773	0.6622	0.6296	0.2816	5.52E-03	1.88E-05	4.23E-06	1.01E-05	9.75E-06	4.29E-06	5.5687E-03
470036.64	3766427.32	234092.14	1.0534	0.3285	0.5734	0.5550	0.3313	5.52E-03	2.94E-05	5.01E-06	8.78E-06	8.59E-06	5.05E-06	5.5775E-03
470029.33	3766377.22	233985.22	1.2875	0.3431	0.5353	0.5209	0.3454	5.52E-03	3.60E-05	5.23E-06	8.20E-06	8.06E-06	5.27E-06	5.5809E-03
470021.09	3766288.99	233074.23	1.9655	0.3874	0.4993	0.4920	0.3882	5.50E-03	5.49E-05	5.91E-06	7.65E-06	7.62E-06	5.92E-06	5.5787E-03
469104.42	3765719.31	232922.95	0.4323	7.1594	1.0636	1.3689	9.4811	5.49E-03	1.21E-05	1.09E-04	1.63E-05	2.12E-05	1.45E-04	5.7963E-03
470040.45	3766408.87	232573.43	1.1375	0.3348	0.5588	0.5416	0.3373	5.48E-03	3.18E-05	5.10E-06	8.56E-06	8.39E-06	5.14E-06	5.5438E-03
469105.66	3765739.02	232500.58	0.4390	6.6405	1.1772	1.5464	8.8053	5.48E-03	1.23E-05	1.01E-04	1.80E-05	2.39E-05	1.34E-04	5.7728E-03
469912.64	3766609.70	232120.20	0.5070	0.2584	0.8437	0.7903	0.2631	5.47E-03	1.42E-05	3.94E-06	1.29E-05	1.22E-05	4.01E-06	5.5214E-03
469895.27	3766618.14	232118.00	0.4884	0.2549	0.8829	0.8249	0.2597	5.47E-03	1.36E-05	3.89E-06	1.35E-05	1.28E-05	3.96E-06	5.5219E-03
469113.76	3765560.37	231982.78	0.4002	26.6437	0.5251	0.6068	52.0450	5.47E-03	1.12E-05	4.06E-04	8.04E-06	9.40E-06	7.93E-04	6.6991E-03
469103.18	3765699.59	231912.94	0.4258	7.6265	0.9641	1.2165	10.1074	5.47E-03	1.19E-05	1.16E-04	1.48E-05	1.88E-05	1.54E-04	5.7851E-03
469101.94	3765679.87	231818.55	0.4191	8.3914	0.8740	1.0874	11.2323	5.47E-03	1.17E-05	1.28E-04	1.34E-05	1.68E-05	1.71E-04	5.8081E-03
469214.70	3766201.51	231680.02	0.5507	0.7144	7.5818	9.5639	0.7523	5.46E-03	1.54E-05	1.09E-05	1.16E-04	1.48E-04	1.15E-05	5.7657E-03
470025.99	3766307.89	231566.68	1.7776	0.3760	0.5029	0.4942	0.3772	5.46E-03	4.97E-05	5.73E-06	7.70E-06	7.65E-06	5.75E-06	5.5376E-03
469106.90	3765758.74	230998.36	0.4458	6.1102	1.3078	1.7519	8.1102	5.45E-03	1.25E-05	9.32E-05	2.00E-05	2.71E-05	1.24E-04	5.7935E-03
469178.02	3766097.32	230435.08	0.5683	1.2368	5.9497	7.4513	1.3234	5.43E-03	1.59E-05	1.89E-05	9.11E-05	1.15E-04	2.02E-05	5.6958E-03
469860.52	3766635.00	230326.20	0.4524	0.2511	0.9942	0.9215	0.2559	5.43E-03	1.26E-05	3.83E-06	1.52E-05	1.43E-05	3.90E-06	5.4817E-03
470033.16	3766358.67	230187.42	1.3938	0.3497	0.5197	0.5072	0.3517	5.43E-03	3.90E-05	5.33E-06	7.96E-06	7.85E-06	5.36E-06	5.4940E-03
469100.71	3765660.16	229882.05	0.4124	9.2606	0.7946	0.9737	12.6078	5.42E-03	1.15E-05	1.41E-04	1.22E-05	1.51E-05	1.92E-04	5.7935E-03
469108.14	3765778.45	229673.76	0.4526	5.6782	1.4519	1.9884	7.5333	5.42E-03	1.26E-05	8.66E-05	2.22E-05	3.08E-05	1.15E-04	5.6835E-03
469877.89	3766626.57	229451.53	0.4706	0.2499	0.9195	0.8569	0.2547	5.41E-03	1.32E-05	3.81E-06	1.41E-05	1.33E-05	3.88E-06	5.4594E-03
470032.83	3766445.76	228918.73	0.9703	0.3139	0.5682	0.5483	0.3169	5.40E-03	2.71E-05	4.79E-06	8.70E-06	8.49E-06	4.83E-06	5.4526E-03
469109.38	3765798.17	227956.88	0.4592	5.2769	1.6120	6.9793	5.38E-03	5.38E-03	1.28E-05	8.05E-05	2.47E-05	3.50E-05	1.06E-04	5.6353E-03
470029.02	3766464.21	227444.67	0.8983	0.3053	0.5776	0.5560	0.3085	5.36E-03	2.51E-05	4.66E-06	8.85E-06	8.61E-06	4.70E-06	5.4158E-03
469099.47	3765640.44	227345.17	0.4059	10.1421	0.7267	0.8781	14.0839	5.36E-03	1.13E-05	1.55E-04	1.11E-05	1.36E-05	2.15E-04	5.7669E-03
469278.79	3766351.72	227276.35	0.4759	0.4111	16.8987	24.8864	0.4269	5.36E-03	1.33E-05	6.27E-06	2.59E-04	3.85E-04	6.51E-06	6.0302E-03
469113.88	3765831.67	227220.81	0.4739	4.7716	1.9573	2.8358	6.2679	5.36E-03	1.32E-05	7.27E-05	3.00E-05	4.39E-05	9.25E-05	5.6140E-03
469248.71	3766289.40	226752.40	0.5081	0.4997	10.4646	13.7151	0.5220	5.35E-03	1.42E-05	7.62E-06	1.60E-04	2.12E-04	7.96E-06	5.7500E-03
470025.20	3766482.65	226660.76	0.8307	0.2988	0.5922	0.5687	0.3022	5.35E-03	2.34E-05	4.56E-06	9.07E-06	8.80E-06	4.61E-06	5.3958E-03
469998.67	3766525.56	226492.93	0.6976	0.2794	0.6338	0.6043	0.2833	5.34E-03	1.95E-05	4.26E-06	9.71E-06	9.36E-06	4.32E-06	5.3886E-03
469119.37	3765866.74	226140.87	0.4899	4.2577	2.4163	3.6006	5.4945	5.33E-03	1.37E-05	6.49E-05	3.70E-05	5.58E-05	8.38E-05	5.5882E-03
469535.31	3766591.96	226095.44	0.3922	0.2416	3.5290	3.0836	0.2479	5.33E-03	1.10E-05	3.68E-06	5.41E-05	4.77E-05	3.78E-06	5.4523E-03
469975.88	3766550.36	225965.49	0.6190	0.2672	0.6670	0.6329	0.2715	5.33E-03	1.73E-05	4.07E-06	1.02E-05	9.80E-06	4.14E-06	5.3745E-03
470021.39	3766501.10	225940.61	0.7813	0.2935	0.6101	0.5843	0.2970	5.33E-03	2.18E-05	4.47E-06	9.34E-06	9.05E-06	4.53E-06	5.3776E-03
470036.99	3766340.13	225886.93	1.5053	0.3562	0.5044	0.4938	0.3578	5.33E-03	4.21E-05	5.43E-06	7.73E-06	7.65E-06	5.45E-06	5.3955E-03
469217.70	3766219.71	225485.79	0.5372	0.6592	7.6903	9.5551	0.6925	5.32E-03	1.50E-05	1.01E-05	1.18E-04	1.48E-04	1.06E-05	5.6190E-03
469953.00	3766575.57	224954.63	0.5662	0.2578	0.7131	0.6734	0.2623	5.31E-03	1.58E-05	3.93E-06	1.09E-05	1.04E-05	4.00E-06	5.3503E-03
469098.23	3765620.73	224351.81	0.3996	10.9467	0.6679	0.7967	15.4751	5.29E-03	1.12E-05	1.67E-04	1.02E-05	1.23E-05	2.36E-04	5.7275E-03
469124.86	3765901.81	224328.39	0.5047	3.7253	2.9345	4.4449	4.6590	5.29E-03	1.41E-05	5.68E-05	4.49E-05	6.88E-05	7.10E-05	5.5461E-03
470044.26	3766390.43	224315.15	1.2152	0.3340	0.5257	0.5113	0.3362	5.29E-03	3.40E-05	5.09E-06	8.05E-06	7.92E-06	5.13E-06	5.3502E-03
469130.35	3765936.87	221826.75	0.5173	3.1588	3.4819	5.1341	3.7765	5.23E-03	1.45E-05	4.82E-05	5.33E-05	7.95E-05	5.76E-05	5.4844E-03
469183.69	3766131.82	221770.29	0.5551	1.0007	5.9444	7.3070	1.0636	5.23E-03	1.55E-05	1.53E-05	9.11E-05	1.13E-04	1.62E-05	5.4812E-03
470040.83	3766321.59	221636.96	1.6365	0.3630	0.4906	0.4817	0.3642	5.23E-03	4.57E-05	5.53E-06	7.51E-06	7.46E-06	5.55E-06	5.2987E-03
469096.99	3765601.01	220757.61	0.3933	11.9115	0.6160	0.7263	17.1686	5.21E-03	1.10E-05	1.82E-04	9.44E-06	1.12E-05	2.62E-04	5.6812E-03
470048.08	3766371.98	220095.45	1.3043	0.3390	0.5078	0.4954	0.3409	5.19E-03	3.65E-05	5.17E-06	7.78E-06	7.67E-06	5.20E-06	5.2528E-03
470017.58	3766519.54	219939.84	0.7238	0.2819	0.6096	0.5827	0.2855	5.17E-03	2.02E-05	4.30E-06	9.34E-06	9.02E-06	4.35E-06	5.2214E-03
470029.96	3766246.36	219397.63	2.4077	0.4021	0.4651	0.4617	0.4017	5.17E-03	6.73E-05	6.13E-06	7.12E-06	7.15E-06	6.12E-06	5.2679E-03
469573.73	3766611.47	219251.75	0.3877	0.2338	2.7881	2.4635	0.2397	5.17E-03	1.08E-05	3.56E-06	4.27E-05	3.81E-05	3.65E-06	5.2695E-03
470034.86	3766265.26	218978.79	1.1708	0.3911	0.4694	0.4647	0.3911	5.16E-03	6.07E-05	5.96E-06	7.19E-06	7.20E-06	5.96E-06	5.2512E-03
469910.74	3766629.86	218750.13	0.4748	0.2517	0.8566	0.8002	0.2562	5.16E-03	1.33E-05	3.84E-06	1.31E-05	1.24E-05	3.91E-06	5.2054E-03
469994.84	3766544.10	218527.25	0.6373	0.2684	0.6349	0.6041	0.2724	5.15E-03	1.78E-05	4.09E-06	9.73E-06	9.35E-06	4.15E-06	5.1987E-03
469972.02	3766569.01	218410.47	0.5771	0.2588	0.6756	0.6398	0.2631	5.15E-03	1.61E-05	3.94E-06	1.03E-05	9.91E-06	4.01E-06	5.1952E-03
470039.76	3766284.15	218145.73	1.9618	0.3802	0.4732	0.4673	0.3806	5.14E-03	5.48E-05	5.80E-06	7.25E-06	7.23E-06	5.80E-06	5.2255E-03
469893.49	3766638.23	218142.21	0.4575	0.2493	0.9047	0.8424	0.2539	5.14E-03	1.28E-05	3.80E-06	1.39E-05	1.30E-05	3.87E-06	5.1918E-03
469136.85	3765975.74	218110.87	0.5279	2.5094	4.0021	5.5442	2.8633	5.14E-03	1.48E-05	3.83E-05	6.13E-05	8.58E-05	4.36E-05	5.3876E-03
469220.69	3766237.92	217584.52	0.5227	0.6069	7.6506	9.4904	0.6364	5.13E-03	1.46E-05	9.25E-06	1.17E-04	1.47E-04	9.70E-06	5.4290E-03
470044.66	3766303.04	216909.12	1.7782	0.3695	0.4766	0.4694	0.3702	5.12E-03	4.97E-05	5.63E-06	7.30E-06	7.27E-06	5.64E-06	5.1910E-03
469876.25	3766646.60	216463.47	0.4398	0.2457	0.9578	0.8881	0.2503	5.10E-03	1.23E-05	3.75E-06	1.47E-05	1.38E-05	3.82E-06	5.1532E-03
469095.75	3765581.29	216427.82	0.3867	13.3968	0.5681	0.6633	19.8751	5.10E-03	1.08E-05	2.04E-04	8.70E-06	1.03E-05	3.03E-04	5.6411E-03
469186.68	3766150.02	216388.17	0.5463	0.9008	5.9253	7.2207	0.9548	5.10E-03	1.53E-05	1.37E-05	9.08E-05	1.12E-04	1.46E-05	5.349

469281.26	3766380.30	200671.10	0.4470	0.3748	16.4153	23.8959	0.3885	4.73E-03	1.25E-05	5.71E-06	2.51E-04	3.70E-04	5.92E-06	5.3780E-03
469159.03	3766100.69	199341.31	0.5270	1.1164	4.6113	5.6307	1.1965	4.70E-03	1.47E-05	1.70E-05	7.06E-05	8.72E-05	1.82E-05	4.9089E-03
470006.14	3766574.88	199019.86	0.5657	0.2526	0.6184	0.5876	0.2565	4.69E-03	1.58E-05	3.85E-06	4.97E-06	9.10E-06	3.91E-06	4.7357E-03
469226.69	3766274.33	198857.49	0.4924	0.5100	7.4866	9.1321	0.5330	4.69E-03	1.38E-05	7.78E-06	1.15E-04	1.41E-04	8.13E-06	4.9754E-03
469105.81	3765904.79	198752.96	0.4718	2.9058	2.4613	3.5218	3.4871	4.69E-03	1.32E-05	4.43E-05	3.77E-05	5.40E-05	5.37E-05	4.8901E-03
469076.50	3765582.50	197827.49	0.3673	8.9540	0.5686	0.6623	12.0231	4.67E-03	1.03E-05	1.37E-04	8.71E-06	1.03E-05	1.83E-04	5.0144E-03
469535.20	3766611.24	197666.26	0.3725	0.2322	3.5243	3.0732	0.2381	4.66E-03	1.04E-05	3.54E-06	5.40E-05	4.76E-05	3.63E-06	4.7808E-03
469983.34	3766599.73	197352.64	0.5181	0.2438	0.6570	0.6216	0.2479	4.65E-03	1.45E-05	3.72E-06	1.01E-05	9.62E-06	3.78E-06	4.6959E-03
469943.32	3766633.28	197246.26	0.4752	0.2367	0.7452	0.7002	0.2411	4.65E-03	1.33E-05	3.61E-06	1.14E-05	1.08E-05	3.67E-06	4.6945E-03
469195.67	3766204.64	196159.80	0.5129	0.6611	5.6893	6.7764	0.6959	4.63E-03	1.43E-05	1.01E-05	8.71E-05	1.05E-04	1.06E-05	4.8532E-03
469111.30	3765939.86	195968.07	0.4826	2.4999	2.8293	3.9252	2.9357	4.62E-03	1.35E-05	3.81E-05	4.33E-05	6.08E-05	4.48E-05	4.8202E-03
469090.79	3765502.43	194968.16	0.3600	21.2663	0.4272	0.4826	38.6405	4.60E-03	1.01E-05	3.24E-04	6.54E-06	7.47E-06	5.89E-04	5.5353E-03
469075.26	3765562.79	193830.98	0.3611	10.1702	0.5246	0.6062	13.9893	4.57E-03	1.01E-05	1.55E-04	8.03E-06	9.39E-06	2.13E-04	4.9670E-03
469924.57	3766661.61	193512.83	0.4338	0.2389	0.8347	0.7783	0.2431	4.56E-03	1.21E-05	3.64E-06	1.28E-05	1.21E-05	3.71E-06	4.6080E-03
470002.33	3766593.32	192334.06	0.5279	0.2447	0.6245	0.5923	0.2486	4.54E-03	1.48E-05	3.73E-06	9.57E-06	9.17E-06	3.79E-06	4.5769E-03
469941.60	3766653.34	192250.82	0.4499	0.2379	0.7760	0.7277	0.2420	4.53E-03	1.26E-05	3.63E-06	1.19E-05	1.13E-05	3.69E-06	4.5769E-03
469117.86	3765979.11	192121.40	0.4916	2.0411	3.1869	4.2238	2.3148	4.53E-03	1.37E-05	3.11E-05	4.88E-05	6.54E-05	3.53E-05	4.7252E-03
469907.53	3766669.88	192010.50	0.4185	0.2355	0.8740	0.8127	0.2398	4.53E-03	1.17E-05	3.59E-06	1.34E-05	1.26E-05	3.65E-06	4.5731E-03
49164.66	3766134.95	191404.23	0.5158	0.9196	4.6254	5.5454	0.9786	4.51E-03	1.44E-05	1.40E-05	7.08E-05	8.59E-05	1.49E-05	4.7140E-03
469229.68	3766292.53	190075.95	0.4776	0.4750	7.4983	9.1091	0.4953	4.48E-03	1.33E-05	7.24E-06	1.15E-04	1.41E-04	7.55E-06	4.7666E-03
49121.03	3765996.96	189827.63	0.4942	1.8356	3.3071	4.2844	2.0544	4.48E-03	1.38E-05	2.80E-05	5.07E-05	6.63E-05	3.13E-05	4.6669E-03
469198.67	3766222.84	189814.46	0.5009	0.6088	5.6865	6.7270	0.6395	4.48E-03	1.40E-05	9.28E-06	8.71E-05	1.04E-04	9.75E-06	4.7007E-03
469979.51	3766618.27	189662.60	0.4877	0.2363	0.6641	0.6272	0.2404	4.47E-03	1.36E-05	3.60E-06	1.02E-05	9.71E-06	3.66E-06	4.5136E-03
469074.02	3765543.07	189641.48	0.3551	11.1995	0.4884	0.5603	15.8042	4.47E-03	9.92E-06	1.71E-04	7.48E-06	8.68E-06	2.41E-04	4.9101E-03
469890.50	3766678.14	189524.09	0.4041	0.2320	0.9126	0.8463	0.2363	4.47E-03	1.13E-05	3.54E-06	1.40E-05	1.31E-05	3.60E-06	4.5151E-03
469089.55	3765482.71	188602.56	0.3530	25.1740	0.4002	0.4492	49.7294	4.45E-03	9.86E-06	3.84E-04	6.13E-06	6.96E-06	7.58E-04	5.6126E-03
469062.21	3765662.58	188468.30	0.3695	5.1519	0.7618	0.9206	6.3646	4.44E-03	1.03E-05	7.85E-05	1.17E-05	1.43E-05	9.70E-05	4.6565E-03
469285.01	3766402.45	188200.01	0.4280	0.3566	18.0159	26.9061	0.3690	4.44E-03	1.20E-05	5.44E-06	2.76E-04	4.17E-04	5.62E-06	4.5139E-03
469063.45	3765682.29	187878.42	0.3748	4.7295	0.8295	1.0099	5.8140	4.43E-03	1.05E-05	7.21E-05	1.27E-05	1.56E-05	8.86E-05	4.6303E-03
469065.93	3765721.72	187846.41	0.3852	4.2136	0.9781	1.2169	5.1671	4.43E-03	1.08E-05	6.42E-05	1.50E-05	1.88E-05	7.88E-05	4.6176E-03
469060.97	3765642.86	187759.54	0.3643	5.5182	0.7041	0.8423	6.8513	4.43E-03	1.02E-05	8.41E-05	1.08E-05	1.30E-05	1.04E-04	4.6505E-03
469124.20	3766014.81	187603.02	0.4961	1.6534	3.4110	4.3300	1.8301	4.42E-03	1.39E-05	2.52E-05	5.22E-05	6.70E-05	2.79E-05	4.6105E-03
469064.69	3765702.01	187471.07	0.3798	4.4014	0.9187	1.1149	5.3965	4.42E-03	1.06E-05	6.71E-05	1.41E-05	1.73E-05	8.23E-05	4.6125E-03
469259.77	3766354.93	187463.56	0.4500	0.3903	10.7864	13.9080	0.4084	4.42E-03	1.26E-05	5.99E-06	1.65E-04	2.15E-04	6.23E-06	4.6264E-03
469067.17	3765741.44	187264.17	0.3905	3.9772	1.0654	1.3368	4.8761	4.42E-03	1.09E-05	6.06E-05	1.63E-05	2.07E-05	7.43E-05	4.5992E-03
469167.65	3766153.15	186635.65	0.5082	0.8337	4.6158	5.4849	0.8845	4.40E-03	1.42E-05	1.27E-05	7.07E-05	8.49E-05	1.35E-05	4.5975E-03
469059.73	3766623.14	186074.19	0.3592	5.8317	0.6531	0.7730	7.2805	4.39E-03	1.00E-05	8.89E-05	1.00E-05	1.20E-05	1.11E-04	4.6201E-03
469068.41	3765761.16	185917.52	0.3956	3.7113	1.1733	1.4736	4.5560	4.38E-03	1.11E-05	5.66E-05	1.80E-05	2.28E-05	6.94E-05	4.5624E-03
469998.52	3766611.77	185468.04	0.4954	0.2372	0.6309	0.5973	0.2411	4.37E-03	1.38E-05	3.62E-06	9.66E-06	9.25E-06	3.68E-06	4.4140E-03
469072.78	3765523.35	185384.43	0.3494	12.0136	0.4570	0.5201	17.3698	4.37E-03	9.76E-06	1.83E-04	7.00E-06	8.05E-06	2.65E-04	4.8447E-03
469958.64	3766645.08	185102.47	0.4595	0.2300	0.7117	0.6693	0.2342	4.37E-03	1.28E-05	3.51E-06	1.09E-05	1.04E-05	3.57E-06	4.4065E-03
469069.65	3765780.87	184495.00	0.4009	3.4823	1.2777	1.6232	4.2695	4.35E-03	1.12E-05	5.31E-05	1.96E-05	2.51E-05	6.51E-05	4.5251E-03
469058.49	3765603.43	183631.35	0.3543	6.1200	0.6078	0.7117	7.6861	4.33E-03	9.90E-06	9.33E-05	9.31E-06	1.10E-05	1.571E-04	4.5713E-03
469201.66	3766241.05	183408.31	0.4885	0.5638	5.6998	6.7054	0.5911	4.33E-03	1.37E-05	8.60E-06	8.73E-05	1.04E-04	9.01E-06	4.5477E-03
469957.00	3766665.10	183360.81	0.4375	0.2366	0.7620	0.7139	0.2405	4.32E-03	1.22E-05	3.61E-06	1.17E-05	1.11E-05	3.67E-06	4.3665E-03
469940.06	3766673.32	183013.04	0.4021	0.2339	0.8033	0.7497	0.2379	4.32E-03	1.18E-05	3.57E-06	1.23E-05	1.16E-05	3.63E-06	4.3589E-03
469070.89	3765800.59	182346.09	0.4258	3.2365	1.3846	1.7962	3.9583	4.30E-03	1.13E-05	4.93E-05	2.12E-05	2.78E-05	6.03E-05	4.4703E-03
49127.37	3766032.66	181928.36	0.4968	1.4833	3.4862	4.3438	1.6268	4.29E-03	1.39E-05	2.26E-05	5.34E-05	6.73E-05	2.48E-05	4.4724E-03
469057.25	3765583.71	181516.16	0.3491	6.6134	0.5639	0.6561	8.3895	4.28E-03	9.76E-06	1.01E-04	8.64E-06	1.02E-05	1.28E-04	4.5380E-03
469923.11	3766681.55	181513.92	0.4081	0.2307	0.8367	0.7790	0.2348	4.28E-03	1.14E-05	3.52E-06	1.28E-05	1.21E-05	3.58E-06	4.3241E-03
469073.02	3765820.11	181450.82	0.4121	3.0682	1.4926	1.9551	3.7443	4.28E-03	1.15E-05	4.68E-05	2.29E-05	3.03E-05	5.71E-05	4.4477E-03
49170.65	3766171.36	181248.09	0.4996	0.7501	4.5893	5.3803	0.7930	4.27E-03	1.40E-05	1.14E-05	7.03E-05	8.33E-05	1.21E-05	4.4655E-03
469071.54	3765503.64	180737.29	0.3435	13.0822	0.4286	0.4842	19.4862	4.26E-03	9.60E-06	1.99E-04	6.56E-06	7.50E-06	2.97E-04	4.7825E-03
469078.51	3765855.17	180268.23	0.4249	2.7856	1.7201	2.2901	3.3765	4.25E-03	1.19E-05	4.25E-05	2.63E-05	3.55E-05	5.15E-05	4.4189E-03
469133.70	3766068.36	180002.05	0.4957	1.2129	3.6187	4.3791	1.3118	4.25E-03	1.39E-05	1.85E-05	5.54E-05	6.78E-05	2.00E-05	4.4206E-03
469295.79	3766430.03	179815.81	0.4086	0.3420	30.5863	56.0906	0.3533	4.24E-03	1.14E-05	5.21E-06	4.69E-04	8.68E-04	5.39E-06	5.5997E-03
469973.95	3766656.88	179444.19	0.4522	0.2318	0.7053	0.6638	0.2358	4.23E-03	1.26E-05	3.53E-06	1.08E-05	1.03E-05	3.59E-06	4.2727E-03
469906.17	3766689.77	179275.68	0.3948	0.2274	0.8712	0.8091	0.2315	4.23E-03	1.10E-05	3.47E-06	1.33E-05	1.25E-05	3.53E-06	4.2718E-03
469130.54	3766050.51	179050.16	0.4965	1.3333	3.5459	4.3468	1.4511	4.22E-03	1.39E-05	2.03E-05	5.43E-05	6.73E-05	2.21E-05	4.4005E-03
469994.71	3766630.21	178924.61	0.4703	0.2306	0.6391	0.6040	0.2346	4.22E-03	1.31E-05	3.52E-06	9.79E-06	9.35E-06	3.58E-06	4.2590E-03
469749.75	3765644.40	178802.82	1.6409	0.8051	0.2975	0.3098	0.7664	4.22E-03	4.59E-05	1.23E-05	4.56E-06	4.80E-06	1.17E-05	4.2959E-03
469056.01	3765564.00	178394.68	0.3435	7.3852	0.5212	0.6015	9.5146	4.21E-03	9.60E-06	1.13E-04	7.98E-06	9.31E-06	1.45E-04	4.4916E-03
469136.87	3766086.21	176958.98	0.4934	1.0966	3.6578	4.3722	1.1797	4.17E-03	1.38E-05	1.67E-05	5.60E-05	6.77E-05	1.80E-05	4.3455

469108.38	3766036.03	160108.41	0.4634	1.2893	2.8628	3.4795	1.4121	3.78E-03	1.29E-05	1.97E-05	4.39E-05	5.39E-05	2.15E-05	3.9277E-03
469059.46	3765858.16	159873.80	0.4006	2.2945	1.5365	1.9742	2.7179	3.77E-03	1.12E-05	3.50E-05	2.35E-05	3.06E-05	4.14E-05	3.9120E-03
469066.59	3765424.77	159612.94	0.3191	21.3328	0.3378	0.3732	38.2858	3.76E-03	8.92E-06	3.25E-04	5.17E-06	5.78E-06	5.84E-04	4.6929E-03
469034.29	3765525.77	159541.25	0.3182	6.3059	0.4547	0.5162	7.9221	3.76E-03	8.89E-06	9.61E-05	6.96E-06	7.99E-06	1.21E-04	4.0032E-03
469049.82	3765465.42	159425.35	0.3170	11.0618	0.3785	0.4233	15.6260	3.76E-03	8.86E-06	1.69E-04	5.80E-06	6.55E-06	2.38E-04	4.1878E-03
469210.65	3766295.67	159062.96	0.4497	0.4547	5.7180	0.6420	0.4743	3.75E-03	1.26E-05	6.93E-06	8.76E-05	1.03E-04	7.23E-06	3.9684E-03
469240.75	3766358.14	158427.99	0.4260	0.3782	7.6629	0.1992	0.3927	3.74E-03	1.19E-05	5.77E-06	1.17E-04	1.42E-04	5.99E-06	4.0197E-03
469739.03	3765606.18	158237.54	1.3196	0.8018	0.2819	0.2935	0.7615	3.73E-03	3.69E-05	1.22E-05	4.32E-06	4.54E-06	1.16E-05	3.8013E-03
469151.62	3766174.49	158112.40	0.4669	0.6996	3.7329	4.2767	0.7396	3.73E-03	1.30E-05	1.07E-05	5.72E-05	6.62E-05	1.13E-05	3.8872E-03
469111.55	3766053.88	157878.37	0.4633	1.1783	2.9244	3.5070	1.2815	3.72E-03	1.29E-05	1.80E-05	4.48E-05	5.43E-05	1.95E-05	3.8728E-03
469064.95	3765893.23	157622.99	0.4111	2.0733	1.7282	2.2341	2.4302	3.72E-03	1.15E-05	3.16E-05	2.65E-05	3.46E-05	3.70E-05	3.8585E-03
469033.05	3765506.06	156554.06	0.3136	6.6653	0.4281	0.4829	8.4559	3.69E-03	8.76E-06	1.02E-04	6.56E-06	7.48E-06	1.29E-04	3.9454E-03
469022.47	3765645.28	156124.86	0.3290	3.4480	0.6811	0.7922	4.0725	3.68E-03	9.20E-06	5.26E-05	1.04E-05	1.23E-05	6.21E-05	3.8285E-03
469021.24	3765625.56	155989.02	0.3250	3.6739	0.6277	0.7327	4.3516	3.68E-03	9.08E-06	5.60E-05	9.61E-06	1.13E-05	6.63E-05	3.8311E-03
469114.72	3766071.73	155599.49	0.4624	1.0788	2.9784	3.5294	1.1663	3.67E-03	1.29E-05	1.64E-05	4.56E-05	5.46E-05	1.78E-05	3.8170E-03
469266.05	3766406.00	155508.15	0.4068	0.3411	10.9530	13.9961	0.3531	3.67E-03	1.14E-05	5.20E-06	1.68E-04	2.17E-04	5.38E-06	4.0738E-03
469821.55	3765686.10	155284.91	1.8923	0.6799	0.2829	0.2926	0.6509	3.66E-03	5.29E-05	1.04E-05	4.33E-06	4.53E-06	9.92E-06	3.7442E-03
469048.58	3765445.70	155143.04	0.3117	11.9769	0.3581	0.3980	17.2851	3.66E-03	8.71E-06	1.83E-04	5.48E-06	6.16E-06	2.63E-04	4.1252E-03
469182.63	3766244.18	155103.27	0.4584	0.5356	4.5307	5.1740	0.5614	3.66E-03	1.28E-05	8.17E-06	6.94E-05	8.01E-05	8.56E-06	3.8369E-03
469020.00	3765605.85	154491.08	0.3209	3.7929	0.5927	0.6845	4.5017	3.64E-03	8.97E-06	5.78E-05	9.08E-06	1.06E-05	6.98E-05	3.7985E-03
469792.25	3765653.09	154281.99	1.6170	0.7177	0.2812	0.2919	0.6850	3.64E-03	4.52E-05	1.09E-05	4.31E-06	4.52E-06	1.04E-05	3.7139E-03
469028.67	3765743.86	154243.85	0.3498	2.6534	0.9744	1.1834	3.1193	3.64E-03	9.78E-06	4.05E-05	1.49E-05	1.83E-05	4.75E-05	3.7686E-03
469023.71	3765665.00	153975.68	0.3324	3.1796	0.7669	0.9045	3.7482	3.63E-03	9.29E-06	4.85E-05	1.17E-05	1.40E-05	5.71E-05	3.7719E-03
469065.35	3765405.06	153896.97	0.3127	25.6456	0.3196	0.3518	49.9587	3.63E-03	8.74E-06	3.91E-04	4.89E-06	5.45E-06	7.62E-04	4.8010E-03
469018.76	3765586.13	153383.57	0.3169	3.9962	0.5538	0.6359	4.7601	3.62E-03	8.86E-06	6.09E-05	8.48E-06	9.85E-06	7.26E-05	3.7779E-03
469070.45	3765928.29	153217.04	0.4186	1.8049	1.9176	2.4521	2.0811	3.61E-03	1.17E-05	2.75E-05	2.94E-05	3.80E-05	3.17E-05	3.7516E-03
469024.95	3765684.71	153210.59	0.3363	3.0017	0.8214	0.9754	3.5336	3.61E-03	9.40E-06	4.58E-05	1.26E-05	1.51E-05	5.39E-05	3.7499E-03
469031.81	3765486.34	153110.89	0.3087	7.2847	0.4018	0.4514	9.3763	3.61E-03	8.63E-06	1.11E-04	6.15E-06	6.99E-06	1.43E-04	3.8866E-03
469026.19	3765704.43	152884.01	0.3405	2.8646	0.8728	1.0441	3.3695	3.61E-03	9.52E-06	4.37E-05	1.34E-05	1.62E-05	5.14E-05	3.7396E-03
469027.43	3765724.14	152755.76	0.3451	2.7507	0.9235	1.1132	3.2343	3.60E-03	9.64E-06	4.19E-05	1.41E-05	1.72E-05	4.93E-05	3.7347E-03
469017.52	3765566.42	152721.21	0.3123	4.4727	0.5104	0.5862	5.3668	3.60E-03	8.73E-06	6.82E-05	7.82E-06	9.08E-06	8.18E-05	3.7773E-03
469117.88	3766089.58	152566.82	0.4603	0.9830	3.0112	3.5280	1.0572	3.60E-03	1.29E-05	1.50E-05	4.61E-05	5.46E-05	1.61E-05	3.7423E-03
469850.84	3765719.10	152313.82	2.2099	0.6402	0.2820	0.2910	0.6143	3.59E-03	6.18E-05	9.76E-06	4.32E-06	4.51E-06	9.36E-06	3.6818E-03
469762.96	3765620.08	151537.90	1.3855	0.7547	0.2781	0.2888	0.7183	3.57E-03	3.87E-05	1.15E-05	4.26E-06	4.47E-06	1.09E-05	3.6437E-03
469029.91	3765763.58	151343.41	0.3541	2.5105	1.0354	1.2643	2.9490	3.57E-03	9.90E-06	3.83E-05	1.59E-05	1.96E-05	4.50E-05	3.6977E-03
469284.42	3766446.53	150809.58	0.3845	0.3236	19.4641	28.5820	0.3340	3.56E-03	1.07E-05	4.93E-06	2.98E-04	4.43E-04	5.09E-06	4.3180E-03
469016.28	3765546.70	150705.95	0.3081	4.7324	0.4785	0.5457	5.7120	3.55E-03	8.61E-06	7.21E-05	7.33E-06	8.45E-06	8.71E-05	3.7377E-03
469047.34	3765425.98	150672.05	0.3064	13.0711	0.3393	0.3751	19.3723	3.55E-03	8.56E-06	1.99E-04	5.20E-06	5.81E-06	2.95E-04	4.0675E-03
469733.67	3765587.07	150259.53	1.1916	0.8049	0.2751	0.2868	0.7636	3.54E-03	3.33E-05	1.23E-05	4.21E-06	4.44E-06	1.16E-05	3.6095E-03
469079.88	3765985.85	150012.40	0.4308	1.4803	2.2319	2.7754	1.6572	3.54E-03	1.20E-05	2.26E-05	3.42E-05	4.30E-05	2.53E-05	3.6748E-03
469154.61	3766192.70	149835.79	0.4586	0.6400	3.7126	4.2226	0.6748	3.53E-03	1.28E-05	9.76E-06	5.69E-05	6.54E-05	1.03E-05	3.6887E-03
469030.57	3765466.63	149572.30	0.3038	7.8779	0.3788	0.4233	10.2900	3.53E-03	8.49E-06	1.20E-04	5.80E-06	6.55E-06	1.57E-04	3.8252E-03
469185.63	3766262.39	149480.02	0.4473	0.4989	4.5396	5.1617	0.5220	3.53E-03	1.25E-05	7.61E-06	6.95E-05	7.99E-05	7.96E-06	3.7027E-03
469121.05	3766107.43	149404.09	0.4574	0.8978	3.0375	3.5233	0.9613	3.52E-03	1.28E-05	1.37E-05	4.65E-05	5.46E-05	1.47E-05	3.6656E-03
469031.15	3765783.29	149365.60	0.3582	2.3597	1.0991	1.3475	2.7680	3.52E-03	1.00E-05	3.60E-05	2.09E-05	4.22E-05	6.44E-05	3.6484E-03
469015.04	3765526.98	148547.89	0.3041	4.9367	0.4519	0.5120	5.9914	3.50E-03	8.50E-06	7.53E-05	6.92E-06	7.93E-06	9.13E-05	3.6932E-03
469064.11	3765385.34	148283.04	0.3065	30.7765	0.3033	0.3324	65.4230	3.50E-03	8.57E-06	4.69E-04	4.65E-06	5.15E-06	9.97E-04	4.9818E-03
469083.05	3766003.70	148010.33	0.4328	1.3660	2.3093	2.8320	1.5158	3.49E-03	1.21E-05	2.08E-05	3.54E-05	4.39E-05	2.31E-05	3.6258E-03
469816.18	3765666.99	147859.92	1.6849	0.6805	0.2769	0.2871	0.6509	3.49E-03	4.71E-05	1.04E-05	4.24E-06	4.44E-06	9.92E-06	3.5631E-03
469032.39	3765803.01	147266.27	0.3623	2.2180	1.1627	1.4299	2.5967	3.47E-03	1.01E-05	3.38E-05	1.78E-05	2.21E-05	3.96E-05	3.5965E-03
469680.44	3765540.16	147111.07	0.9794	0.9079	0.2714	0.2844	0.8565	3.47E-03	2.74E-05	1.38E-05	4.16E-06	4.40E-06	1.31E-05	3.5322E-03
469216.25	3766328.82	146362.99	0.4264	0.4052	5.7656	6.6607	0.4216	3.45E-03	1.19E-05	6.18E-06	8.83E-05	1.03E-04	6.43E-06	3.6677E-03
469013.80	3765507.27	146150.71	0.3000	5.1739	0.4268	0.4804	6.3193	3.45E-03	8.38E-06	7.89E-05	6.54E-06	7.44E-06	9.63E-05	3.6443E-03
469029.33	3765446.91	146047.97	0.2991	8.3580	0.3589	0.3988	11.0539	3.44E-03	8.36E-06	1.27E-04	5.50E-06	6.17E-06	1.68E-04	3.7602E-03
469046.10	3765406.27	145903.17	0.3007	14.8173	0.3213	0.3538	22.7813	3.44E-03	8.40E-06	2.26E-04	4.92E-06	5.48E-06	3.47E-04	4.0328E-03
469845.48	3765699.99	145888.19	1.9570	0.6402	0.2759	0.2847	0.6137	3.44E-03	5.47E-05	9.76E-06	4.23E-06	4.41E-06	9.36E-06	3.5230E-03
469786.89	3765633.98	145693.14	1.4491	0.7143	0.2741	0.2844	0.6810	3.44E-03	4.05E-05	1.09E-05	4.20E-06	4.40E-06	1.04E-05	3.5063E-03
469034.92	3765826.08	145590.37	0.3681	2.0853	1.2434	1.5366	2.4361	3.43E-03	1.03E-05	3.18E-05	1.90E-05	2.38E-05	3.71E-05	3.5555E-03
469086.22	3766021.55	145287.92	0.4337	1.2480	2.3675	2.8608	1.3738	3.43E-03	1.21E-05	1.90E-05	3.63E-05	4.43E-05	2.09E-05	3.5990E-03
469157.61	3766210.90	144790.18	0.4498	0.5895	3.7023	4.1846	0.6201	3.41E-03	1.26E-05	8.99E-06	5.67E-05	6.48E-05	9.45E-06	3.5671E-03
469874.77	3765733.00	144319.29	2.2619	0.6050	0.2751	0.2836	0.5815	3.40E-03	6.32E-05	9.22E-06	4.21E-06	4.39E-06	8.86E-06	3.4934E-03
469757.60	3765600.97	143949.22	1.2498	0.7576	0.2716	0.2824	0.7200	3.39E-03	3.49E-05	1.15E-05	4.16E-06	4.37E-06	1.10E-05	3.4608E-03
469242.86	3766383.96	143839.10	0.4047	0.3486	7.4965	8.9240	0.3614	3.39E-03	1.13E-05	5.31E-06	1.15E-04	1.38E-04	5.51E-06	3.6673E-03
469704.37	3765554.06	143815.66	1.0314											

469834.75	3765661.77	134648.99	1.5627	0.6432	0.2658	0.2752	0.6156	3.18E-03	4.37E-05	9.81E-06	4.07E-06	4.26E-06	9.38E-06	3.2466E-03
468993.31	3765488.76	134468.69	0.2833	4.4252	0.3983	0.4457	5.2966	3.17E-03	7.92E-06	6.75E-05	6.10E-06	6.90E-06	8.07E-05	3.3403E-03
469008.84	3765428.40	134464.23	0.2828	6.6092	0.3406	0.3766	8.3729	3.17E-03	7.90E-06	1.01E-04	5.22E-06	5.83E-06	1.28E-04	3.4184E-03
469025.61	3765387.76	134219.93	0.2842	10.8980	0.3060	0.3360	15.2922	3.17E-03	7.94E-06	1.66E-04	4.69E-06	5.20E-06	2.33E-04	3.5824E-03
469060.89	3765989.22	134005.20	0.4045	1.2764	1.9172	1.3240	1.4199	3.16E-03	1.13E-05	1.95E-05	2.94E-05	3.60E-05	2.16E-05	3.2780E-03
469221.74	3766361.35	133854.67	0.4040	0.3649	5.8131	6.6858	0.3788	3.16E-03	1.13E-05	5.56E-06	8.90E-05	1.04E-04	5.77E-06	3.3719E-03
469013.14	3765804.22	133706.87	0.3433	1.8786	1.0721	1.2896	2.1659	3.15E-03	9.59E-06	2.86E-05	1.64E-05	2.00E-05	3.30E-05	3.2609E-03
469699.01	3765534.95	133296.05	0.9425	0.8444	0.2619	0.2738	0.7975	3.14E-03	2.63E-05	1.29E-05	4.01E-06	4.24E-06	1.22E-05	3.2032E-03
468982.74	3765627.98	132880.78	0.2956	2.5509	0.6085	0.6888	2.9326	3.13E-03	6.82E-06	3.89E-05	9.32E-06	1.07E-05	4.47E-05	3.2456E-03
468983.98	3765647.70	132865.61	0.2989	2.4358	0.6543	0.7416	2.7947	3.13E-03	8.35E-06	3.71E-05	1.00E-05	1.15E-05	4.26E-05	3.2430E-03
469102.06	3766110.80	132837.32	0.4287	0.8229	2.5744	2.9441	0.8808	3.13E-03	1.20E-05	1.25E-05	3.94E-05	4.56E-05	1.34E-05	3.2577E-03
469247.10	3766409.56	132727.17	0.3868	0.3252	7.6647	9.1085	0.3366	3.13E-03	1.08E-05	4.96E-06	1.17E-04	1.41E-04	5.13E-06	3.4095E-03
469864.05	3765694.78	132704.68	1.7914	0.6047	0.2639	0.2719	0.5800	3.13E-03	5.01E-05	9.22E-06	4.04E-06	4.21E-06	8.84E-06	3.2060E-03
469574.00	3765446.35	132658.56	0.6861	1.1056	0.2509	0.2658	1.0287	3.13E-03	1.92E-05	1.69E-05	3.84E-06	4.12E-06	1.57E-05	3.1882E-03
469805.46	3765628.77	132622.34	1.3586	0.6745	0.2637	0.2731	0.6437	3.13E-03	3.80E-05	1.03E-05	4.04E-06	4.23E-06	9.81E-06	3.1940E-03
468985.22	3765667.42	132545.78	0.3022	2.3237	0.6971	0.8081	2.6663	3.13E-03	8.44E-06	3.54E-05	1.07E-05	1.25E-05	4.06E-05	3.2336E-03
469891.50	3765608.27	132413.32	0.2922	2.6512	0.5757	0.6481	3.0517	3.12E-03	8.17E-06	4.04E-05	8.82E-06	1.00E-05	4.65E-05	3.2367E-03
468979.02	3765568.84	132160.93	0.2854	3.0019	0.4952	0.5633	3.4701	3.12E-03	7.97E-06	4.58E-05	7.59E-06	8.72E-06	5.29E-05	3.2397E-03
468992.07	3765469.05	132109.09	0.2795	4.6778	0.3766	0.4198	5.6335	3.12E-03	7.81E-06	7.13E-05	5.77E-06	6.50E-06	8.59E-05	3.2928E-03
469064.06	3766007.07	132070.90	0.4062	1.1864	1.9780	2.3707	1.3102	3.11E-03	1.14E-05	1.81E-05	3.03E-05	3.67E-05	2.00E-05	3.2311E-03
468993.34	3765727.79	132053.15	0.2096	0.5740	0.2635	0.2713	0.5520	3.11E-03	5.70E-05	8.75E-06	4.04E-06	4.20E-06	8.41E-06	3.1966E-03
469776.17	3765595.76	131808.29	1.1814	0.7166	0.2621	0.2721	0.6818	3.11E-03	3.30E-05	1.09E-05	4.01E-06	4.21E-06	1.04E-05	3.1710E-03
469890.26	3765588.55	131808.04	0.2889	2.7606	0.5404	0.6074	3.1827	3.11E-03	8.07E-06	4.21E-05	8.28E-06	9.41E-06	4.85E-05	3.2248E-03
469015.86	3765829.06	131771.95	0.3486	1.7602	1.1429	1.3800	2.0253	3.11E-03	9.74E-06	2.68E-05	1.75E-05	2.14E-05	3.09E-05	3.2139E-03
469042.38	3765347.12	131515.81	0.2838	22.2371	0.2758	0.3006	39.8018	3.10E-03	7.93E-06	3.39E-04	4.22E-06	4.65E-06	6.07E-04	4.0641E-03
469135.59	3766195.83	131107.58	0.4300	0.5969	3.0806	3.4465	0.6294	3.09E-03	1.20E-05	9.10E-06	4.72E-05	5.34E-05	9.59E-06	3.2232E-03
469007.60	3765408.69	131037.98	0.2782	7.2030	0.3225	0.3554	9.2574	3.09E-03	7.77E-06	1.10E-04	4.94E-06	5.50E-06	1.41E-04	3.3594E-03
468977.78	3765549.12	130978.63	0.2820	3.1513	0.4672	0.5296	3.6545	3.09E-03	7.88E-06	4.80E-05	7.16E-06	8.20E-06	5.57E-05	3.2159E-03
468986.46	3765687.13	130809.16	0.3055	2.2101	0.7384	0.8599	2.5335	3.08E-03	8.54E-06	3.37E-05	1.13E-05	1.33E-05	3.86E-05	3.1904E-03
469258.87	3766438.83	130758.65	0.3729	0.3164	9.6088	11.7794	0.3268	3.08E-03	1.04E-05	4.82E-06	1.47E-04	1.82E-04	4.98E-06	3.4335E-03
469722.94	3765548.85	130432.69	0.9881	0.7894	0.2591	0.2703	0.7473	3.08E-03	2.76E-05	1.20E-05	3.97E-06	4.19E-06	1.14E-05	3.1352E-03
469166.60	3766265.52	130426.76	0.4214	0.4751	3.7110	4.1353	0.4970	3.08E-03	1.18E-05	7.24E-06	5.68E-05	6.40E-05	7.58E-06	3.2233E-03
469021.35	3765864.13	130319.30	0.3577	1.6329	1.2542	1.5247	1.8723	3.07E-03	1.00E-05	2.49E-05	1.92E-05	2.36E-05	2.85E-05	3.1796E-03
469024.37	3765368.05	130151.28	0.2791	11.9517	0.2912	0.3185	17.1930	3.07E-03	7.80E-06	1.82E-04	4.46E-06	4.93E-06	2.62E-04	3.5309E-03
469268.10	3766454.58	130045.80	0.3662	0.3123	12.2307	15.6322	0.3222	3.07E-03	1.02E-05	4.76E-06	1.87E-04	2.42E-04	4.91E-06	3.5162E-03
469067.23	3766024.92	129950.90	0.4064	1.0991	2.0307	2.4061	1.2057	3.06E-03	1.14E-05	1.68E-05	3.11E-05	3.73E-05	1.84E-05	3.1795E-03
468990.83	3765449.33	129681.53	0.2757	4.8889	0.3577	0.3970	5.9229	3.06E-03	7.70E-06	7.45E-05	5.48E-06	6.15E-06	9.03E-05	3.2425E-03
468976.54	3765529.40	129627.18	0.2787	3.2594	0.4431	0.4996	3.7883	3.06E-03	7.79E-06	4.97E-05	6.79E-06	7.74E-06	5.77E-05	3.1868E-03
468987.70	3765706.85	129584.91	0.3089	2.0945	0.7814	0.9132	2.3986	3.06E-03	8.63E-06	3.19E-05	1.20E-05	1.41E-05	3.66E-05	3.1593E-03
469858.68	3765675.67	128726.28	1.6078	0.6070	0.2597	0.2677	0.5817	3.04E-03	4.49E-05	9.25E-06	3.98E-06	4.14E-06	8.87E-06	3.1070E-03
468988.94	3765726.56	128116.84	0.3124	1.9827	0.8253	0.9667	2.2683	3.02E-03	8.73E-06	3.02E-05	1.26E-05	1.50E-05	3.46E-05	3.1226E-03
468975.30	3765509.69	128101.08	0.2754	3.3675	0.4206	0.4718	3.9272	3.02E-03	7.70E-06	5.13E-05	6.44E-06	7.30E-06	5.99E-05	3.1537E-03
469070.40	3766042.77	127819.20	0.4067	1.0183	2.0772	2.4347	1.1102	3.01E-03	1.14E-05	1.55E-05	3.18E-05	3.77E-05	1.69E-05	3.1277E-03
469026.85	3765899.19	127788.07	0.3651	1.4861	1.3722	1.6711	1.6923	3.01E-03	1.02E-05	2.27E-05	2.10E-05	2.59E-05	3.1192E-03	
469829.39	3765642.67	127758.41	1.4069	0.6401	0.2595	0.2686	0.6119	3.01E-03	3.93E-05	9.76E-06	3.97E-06	4.16E-06	3.0795E-03	
469006.36	3765388.97	127623.59	0.2737	7.7422	0.3066	0.3367	10.0910	3.01E-03	7.65E-06	1.18E-04	4.70E-06	5.21E-06	1.54E-04	3.2992E-03
469645.79	3765488.04	127304.21	0.7888	0.9382	0.2535	0.2665	0.8808	3.00E-03	2.20E-05	1.43E-05	3.88E-06	4.13E-06	1.34E-05	3.0600E-03
469899.59	3765429.61	127124.36	0.2719	5.1032	0.3404	0.3758	6.2224	3.00E-03	7.60E-06	7.78E-05	5.21E-06	5.82E-06	9.49E-05	3.1893E-03
469197.23	3766332.02	127082.59	0.4036	0.3896	4.5685	5.1311	0.4053	3.00E-03	1.13E-05	5.94E-06	7.00E-05	7.94E-05	6.18E-06	3.1698E-03
469107.57	3766144.35	126916.72	0.4214	0.7073	2.6020	2.9319	0.7519	2.99E-03	1.18E-05	1.08E-05	3.99E-05	4.54E-05	1.15E-05	3.1124E-03
469138.58	3766214.03	126860.44	0.4212	0.5527	3.0762	3.4234	0.5814	2.99E-03	1.18E-05	8.43E-06	4.71E-05	5.30E-05	8.86E-06	3.1210E-03
469041.14	3765327.40	126801.00	0.2781	25.5956	0.2629	0.2857	49.8423	2.99E-03	7.77E-06	3.90E-04	4.03E-06	4.42E-06	7.60E-04	4.1566E-03
469887.98	3765708.68	126695.75	1.8256	0.5734	0.2582	0.2657	0.5508	2.99E-03	5.10E-05	8.74E-06	3.95E-06	4.11E-06	8.40E-06	3.0641E-03
468990.18	3765746.28	126595.03	0.3158	1.8801	0.8685	1.0195	2.1486	2.99E-03	8.83E-06	2.87E-05	1.33E-05	1.58E-05	3.28E-05	3.0848E-03
468974.06	3765489.97	126294.85	0.2718	3.5991	0.3953	0.4418	4.2157	2.98E-03	7.60E-06	5.49E-05	6.05E-06	6.84E-06	6.43E-05	3.1181E-03
469917.27	3765741.69	126276.46	2.0511	0.5464	0.2581	0.2657	0.5262	2.98E-03	5.73E-05	8.33E-06	3.95E-06	4.11E-06	8.02E-06	3.0597E-03
469800.10	3765609.66	126189.51	1.2293	0.6749	0.2581	0.2673	0.6433	2.98E-03	3.44E-05	1.03E-05	3.95E-06	4.14E-06	9.81E-06	3.0385E-03
469023.13	3765348.33	126041.96	0.2740	13.1598	0.2775	0.3023	19.5445	2.97E-03	7.66E-06	2.01E-04	4.25E-06	4.68E-06	2.98E-04	3.4876E-03
469544.70	3765413.34	125909.78	0.6109	1.1455	0.2398	0.2546	1.0608	2.97E-03	7.71E-05	1.75E-05	3.67E-06	3.94E-06	1.62E-05	3.0277E-03
469669.72	3765501.94	125678.51	0.8276	0.8820	0.2541	0.2663	0.8299	2.96E-03	2.31E-05	1.34E-05	3.89E-06	4.12E-06	1.27E-05	3.0211E-03
469073.57	3766060.62	125643.20	0.4063	0.9436	2.1178	2.4572	1.0231	2.96E-03	1.14E-05	1.44E-05	3.24E-05	3.80E-05	1.56E-05	3.0749E-03
469169.60	3766283.72	125482.25	0.4113	0.4446	3.7117	4.1214	0.4643	2.96E-03	1.15E-05	6.78E-06	5.69E-05	6.38E-05	7.08E-06	3.1053E-03
468991.42	3765766.00	125143.99	0.3192	1.7880	0.9099	1.0709	2.0413	2.95E-03	8.92E-06	2.73E-05	1.39E-05	1.66E-05	3.11E-05	3.0491E-03
469032.34	3765934.26	125125.68	0.3716	1.3431	1.4897									

469144.57	3766250.45	118672.09	0.4049	0.4803	3.0771	3.3939	0.5033	2.80E-03	1.13E-05	7.32E-06	4.71E-05	5.26E-05	7.67E-06	2.9247E-03
469045.07	3766010.44	118514.16	0.3805	1.0401	1.7198	2.0228	1.1433	2.79E-03	1.06E-05	1.59E-05	2.63E-05	3.13E-05	1.74E-05	2.8965E-03
468985.88	3765370.47	118429.90	0.2596	6.1286	0.2926	0.3200	7.7019	2.79E-03	7.26E-06	9.34E-05	4.48E-06	4.95E-06	1.17E-04	3.0205E-03
469640.43	3765468.93	118386.79	0.7309	0.9222	0.2451	0.2577	0.8647	2.79E-03	2.04E-05	1.41E-05	3.75E-06	3.99E-06	1.32E-05	2.8474E-03
469083.08	3766114.17	118290.90	0.4008	0.7496	2.2018	2.4886	0.8017	2.79E-03	1.12E-05	1.14E-05	3.37E-05	3.85E-05	1.22E-05	2.8968E-03
469539.34	3765394.23	118231.97	0.5721	1.1263	0.2312	0.2449	1.0416	2.79E-03	1.60E-05	1.72E-05	3.54E-06	3.79E-06	1.59E-05	2.8447E-03
469877.25	3765670.46	118215.63	1.4832	0.5761	0.2500	0.2573	0.5524	2.79E-03	4.15E-05	8.78E-06	3.83E-06	3.98E-06	8.42E-06	2.8544E-03
468969.11	3765411.11	117826.73	0.2577	4.3441	0.3215	0.3536	5.1951	2.78E-03	7.20E-06	6.62E-05	4.93E-06	5.48E-06	7.92E-05	2.9418E-03
469020.65	3765308.90	11781.41	0.2637	16.0871	0.2527	0.2737	26.4481	2.78E-03	7.37E-06	2.45E-04	3.87E-06	4.24E-06	4.03E-04	3.4416E-03
468969.69	3765727.77	117715.44	0.2980	1.7102	0.7814	0.9036	1.9358	2.78E-03	8.33E-06	2.61E-05	1.20E-05	1.40E-05	2.95E-05	2.8660E-03
468953.58	3765471.47	117271.86	0.2579	3.0874	0.3733	0.4141	3.5682	2.77E-03	7.21E-06	4.71E-05	5.72E-06	6.41E-06	5.44E-05	2.8864E-03
469002.65	3765329.82	117101.96	0.2600	9.5437	0.2661	0.2890	13.2078	2.76E-03	7.27E-06	1.46E-04	4.08E-06	4.48E-06	2.01E-04	3.1243E-03
469485.09	3765351.29	117074.44	0.4985	1.2592	0.2196	0.2331	1.1538	2.76E-03	1.39E-05	1.92E-05	3.36E-06	3.61E-06	1.76E-05	2.8187E-03
469202.72	3766364.55	117014.15	0.3836	0.3525	4.6021	5.1495	0.3659	2.76E-03	1.07E-05	5.37E-06	7.05E-05	7.97E-05	5.58E-06	2.9315E-03
469741.51	3765543.64	116983.22	0.9452	0.7314	0.2489	0.2589	0.6931	2.76E-03	2.64E-05	1.12E-05	3.81E-06	4.01E-06	1.06E-05	2.8148E-03
469847.96	3765637.45	116956.65	1.3115	0.6052	0.2496	0.2581	0.5790	2.76E-03	3.67E-05	9.23E-06	3.82E-06	4.00E-06	8.83E-06	2.8207E-03
469664.36	3765482.83	116887.29	0.7655	0.8638	0.2458	0.2579	0.8119	2.76E-03	2.14E-05	1.32E-05	3.77E-06	3.99E-06	1.24E-05	2.8113E-03
469048.24	3766028.29	116838.35	0.3815	0.9748	1.7651	2.0580	1.0655	2.76E-03	1.07E-05	1.49E-05	2.70E-05	3.19E-05	1.62E-05	2.8561E-03
469906.54	3765703.47	116813.63	1.6639	0.5463	0.2488	0.2558	0.5250	2.75E-03	4.65E-05	8.33E-06	3.81E-06	3.96E-06	8.00E-06	2.8254E-03
469116.56	3766198.96	116463.43	0.4035	0.5614	2.6163	2.8948	0.5918	2.75E-03	1.13E-05	8.56E-06	4.01E-05	4.48E-05	9.02E-06	2.8603E-03
469563.27	3765408.13	116173.37	0.5976	1.0679	0.2331	0.2465	0.9912	2.74E-03	1.67E-05	1.63E-05	3.57E-06	3.82E-06	1.51E-05	2.7952E-03
468970.93	3765747.49	116164.21	0.3005	1.6250	0.8175	0.9477	1.8375	2.74E-03	8.40E-06	2.48E-05	2.48E-05	1.47E-05	2.80E-05	2.8279E-03
469007.79	3765902.18	115773.87	0.3440	1.2829	1.2365	1.4742	1.4450	2.73E-03	9.61E-06	1.96E-05	1.89E-05	2.28E-05	2.20E-05	2.8233E-03
468952.34	3765451.75	115630.96	0.2549	3.1871	0.3560	0.3932	3.6946	2.73E-03	7.12E-06	4.86E-05	5.45E-06	6.09E-06	5.63E-05	2.8505E-03
468984.64	3765350.75	115476.98	0.2556	6.4017	0.2798	0.3048	8.1400	2.72E-03	7.14E-06	9.76E-05	4.29E-06	4.72E-06	1.24E-04	2.9611E-03
469818.67	3765604.45	115473.12	1.1565	0.6371	0.2486	0.2570	0.6077	2.72E-03	6.23E-05	9.71E-06	3.81E-06	3.98E-06	9.26E-06	2.7823E-03
468967.87	3765391.39	115352.05	0.2540	4.5837	0.3060	0.3356	5.5242	2.72E-03	7.10E-06	6.99E-05	4.69E-06	5.20E-06	8.42E-05	2.8914E-03
469051.41	3766046.14	115021.63	0.3818	0.9116	1.8052	2.0863	0.9911	2.71E-03	1.07E-05	1.39E-05	2.77E-05	3.23E-05	1.51E-05	2.8122E-03
469147.57	3766268.65	114986.30	0.3966	0.4520	3.0935	3.3995	0.4727	2.71E-03	1.11E-05	6.89E-06	4.74E-05	5.26E-05	7.21E-06	2.8369E-03
468943.01	3765610.69	114594.86	0.2675	1.9603	0.5532	0.6238	2.2116	2.70E-03	7.48E-06	2.99E-05	8.47E-06	9.66E-06	3.37E-05	2.7917E-03
468941.77	3765590.97	114570.71	0.2648	2.0367	0.5191	0.5729	2.2985	2.70E-03	7.40E-06	3.11E-05	7.95E-06	8.87E-06	3.50E-05	2.7923E-03
468972.17	3765767.21	114536.96	0.3030	1.5437	0.8523	0.9898	1.7437	2.70E-03	8.47E-06	2.35E-05	1.31E-05	1.53E-05	2.66E-05	2.7881E-03
468944.24	3765630.40	114448.42	0.2703	1.8786	0.5835	0.6604	2.1170	2.70E-03	7.55E-06	2.86E-05	8.94E-06	1.02E-05	3.23E-05	2.7867E-03
468940.53	3765571.26	114293.04	0.2621	2.1155	0.4869	0.5395	2.3905	2.70E-03	7.32E-06	3.23E-05	7.46E-06	8.35E-06	3.64E-05	2.7872E-03
469456.03	3765323.97	114007.24	0.4581	1.3235	0.2111	0.2243	1.2053	2.69E-03	1.28E-05	2.02E-05	3.23E-06	3.47E-06	1.84E-05	2.7467E-03
468939.29	3765551.54	113915.39	0.2594	2.2024	0.4555	0.5084	2.4920	2.69E-03	7.25E-06	3.36E-05	6.98E-06	7.87E-06	3.80E-05	2.7802E-03
468951.10	3765432.03	113882.19	0.2518	3.2662	0.3407	0.3746	3.7984	2.69E-03	7.04E-06	4.98E-05	5.22E-06	5.80E-06	5.79E-05	2.8115E-03
469019.41	3765289.18	113742.77	0.2586	17.7890	0.2421	0.2614	31.3535	2.68E-03	7.23E-06	2.71E-04	3.71E-06	4.05E-06	4.78E-04	3.4465E-03
469228.14	3766413.11	113724.20	0.3684	0.3147	5.7850	6.6013	0.3256	2.68E-03	1.03E-05	4.80E-06	8.86E-05	1.02E-04	4.96E-06	2.8962E-03
469688.29	3765496.73	113507.86	0.8005	0.8011	0.2440	0.2550	0.7548	2.68E-03	2.24E-05	1.22E-05	3.74E-06	3.95E-06	1.15E-05	2.7307E-03
469001.41	3765310.11	113449.74	0.2553	10.3663	0.2538	0.2751	14.8601	2.68E-03	7.13E-06	1.58E-04	3.89E-06	4.26E-06	2.27E-04	3.0754E-03
469299.77	3766522.61	113397.64	0.3352	0.2660	21.2200	32.3786	0.2735	2.67E-03	9.37E-06	4.06E-06	3.25E-04	5.01E-04	4.17E-06	3.5183E-03
468938.05	3765531.82	113333.07	0.2566	2.2875	0.4324	0.4820	2.5927	2.67E-03	7.17E-06	3.49E-05	6.62E-06	7.46E-06	3.95E-05	2.7684E-03
469054.58	3766063.99	113090.90	0.3819	0.8514	1.8402	2.1085	0.9211	2.67E-03	1.07E-05	1.30E-05	2.82E-05	3.26E-05	1.40E-05	2.7656E-03
469013.29	3765937.25	112999.05	0.3490	1.1619	1.3279	1.5754	1.2981	2.66E-03	9.75E-06	1.77E-05	2.03E-05	2.44E-05	1.98E-05	2.7569E-03
469088.54	3766147.48	112934.28	0.3935	0.6507	2.2234	2.4800	0.6915	2.66E-03	1.10E-05	9.92E-06	3.41E-05	3.84E-05	1.05E-05	2.7673E-03
469871.89	3765651.35	112925.88	1.3443	0.5757	0.2452	0.2532	0.5519	2.66E-03	3.76E-05	8.78E-06	3.76E-06	3.92E-06	8.41E-06	2.7256E-03
469119.55	3766217.17	112885.40	0.3962	0.5225	2.6164	2.8805	0.5496	2.66E-03	1.11E-05	7.97E-06	4.01E-05	4.46E-05	8.38E-06	2.7743E-03
468966.63	3765371.68	112873.16	0.2504	4.7747	0.2922	0.3194	5.7973	2.66E-03	7.00E-06	7.28E-05	4.48E-06	4.95E-06	2.8395E-03	2.7684E-03
468945.48	3765650.12	112838.96	0.2730	1.7918	0.6153	0.6985	2.0174	2.66E-03	7.63E-06	2.73E-05	9.43E-06	1.08E-05	3.08E-05	2.7470E-03
468936.81	3765512.11	112558.69	0.2538	4.6936	0.4114	0.4566	2.6918	2.65E-03	7.09E-06	3.61E-05	6.30E-06	7.07E-06	4.10E-05	2.7521E-03
468983.40	3765331.03	112318.45	0.2514	6.8559	0.2667	0.2899	8.8771	2.65E-03	7.02E-06	1.05E-04	4.09E-06	4.49E-06	1.35E-04	2.9043E-03
469901.18	3765684.36	112283.62	1.5068	0.5465	0.2446	0.2514	0.5247	2.65E-03	4.21E-05	8.33E-06	3.75E-06	3.89E-06	8.00E-06	2.7141E-03
468973.41	3765786.92	112256.82	0.3043	1.4524	0.8872	1.0315	1.6382	2.65E-03	8.50E-06	2.21E-05	1.36E-05	1.60E-05	2.50E-05	2.7326E-03
468946.72	3765669.84	112054.56	0.2758	1.7146	0.6456	0.7345	1.9288	2.64E-03	7.71E-06	2.61E-05	9.89E-06	1.14E-05	2.94E-05	2.7271E-03
468949.86	3765412.32	111772.72	0.2482	3.5398	0.3200	0.3517	4.1434	2.64E-03	6.94E-06	5.40E-05	4.90E-06	5.45E-06	6.32E-05	2.7704E-03
468935.57	3765492.39	111735.22	0.2509	2.4661	0.3906	0.4327	2.8047	2.64E-03	7.01E-06	3.76E-05	5.98E-06	6.70E-06	4.28E-05	2.7351E-03
469239.47	3766441.63	111649.73	0.3564	0.3018	6.6370	7.6778	0.3119	2.63E-03	9.96E-06	4.60E-06	1.02E-04	1.19E-04	4.75E-06	2.8729E-03
469178.21	3766335.23	111574.06	0.3825	3.7136	4.0923	0.3888	0.3888	2.63E-03	1.07E-05	5.70E-06	5.69E-05	6.34E-05	5.93E-06	2.7738E-03
468942.60	3765618.35	111269.14	1.1922	0.6030	0.2446	0.2525	0.5762	2.62E-03	3.33E-05	9.19E-06	3.75E-06	3.91E-06	8.78E-06	2.6830E-03
468947.96	3765689.55	110982.50	0.2788	1.6364	0.6775	0.7719	1.8390	2.62E-03	7.79E-06	2.49E-05	1.04E-05	1.20E-05	2.80E-05	2.7004E-03
469712.22	3765510.63	110840.96	0.8345	0.7551	0.2429	0.2530	0.7132	2.61E-03	2.33E-05	1.15E-05	3.72E-06	3.92E-06	1.09E-05	2.6673E-03
469018.78	3765972.71	110827.87	0.3550	1.0593	1.4191	1.6698	1.1726	2.61E-03	9.92E-06	1.61E-05	2.17E-05	2.59E-05	1.79E-05	2.7052E-03
469057.75	3766081.84	110812.01	0.3802	0.791										

468980.92	3765291.60	105983.72	0.2428	7.7165	0.2439	0.2637	10.4594	2.50E-03	6.78E-06	1.18E-04	3.74E-06	4.08E-06	1.59E-04	2.7911E-03
469016.94	3765249.75	105959.91	0.2484	22.5817	0.2229	0.2393	47.0512	2.50E-03	6.94E-06	3.44E-04	3.41E-06	3.71E-06	7.17E-04	3.5744E-03
468918.80	3765533.03	105777.71	0.2463	1.9370	0.4505	0.4981	2.1756	2.49E-03	6.88E-06	2.95E-05	6.90E-06	7.71E-06	3.32E-05	2.5788E-03
469125.54	3766253.48	105753.24	0.3812	0.4567	2.6148	2.8540	0.4784	2.49E-03	1.07E-05	6.96E-06	4.01E-05	4.42E-05	7.29E-06	2.6032E-03
469605.77	3765416.81	105617.88	0.0666	0.9407	0.2277	0.2400	0.8776	2.49E-03	1.70E-05	1.43E-05	3.49E-06	3.72E-06	1.34E-05	2.5427E-03
469441.58	3765292.25	105553.58	0.4196	1.2635	0.2001	0.2120	1.1461	2.49E-03	1.17E-05	1.93E-05	3.06E-06	3.28E-06	1.75E-05	2.5441E-03
468923.76	3765611.90	105506.01	0.2563	1.6811	0.5443	0.6098	1.8808	2.49E-03	7.16E-06	2.56E-05	8.34E-06	9.44E-06	2.87E-05	2.5674E-03
468946.14	3765533.17	105462.75	0.2384	3.9125	0.2795	0.3040	4.6562	2.49E-03	6.66E-06	5.97E-05	4.28E-06	4.71E-06	7.10E-05	2.6334E-03
468988.74	3765905.16	105462.33	0.3251	1.1224	1.1203	1.3126	1.2527	2.49E-03	9.08E-06	1.71E-05	1.72E-05	2.03E-05	1.91E-05	2.5699E-03
468952.92	3765768.42	105088.44	0.2877	1.3442	0.7981	0.9159	1.5045	2.48E-03	8.04E-06	2.05E-05	1.22E-05	1.42E-05	2.29E-05	2.5562E-03
468962.91	3765312.53	104957.63	0.2392	5.4094	0.2557	0.2770	6.7849	2.48E-03	6.69E-06	8.25E-05	3.92E-06	4.29E-06	1.03E-04	2.6760E-03
469302.57	3766542.96	104931.38	0.3221	0.2557	22.7157	35.9542	0.2627	2.47E-03	9.00E-06	3.90E-06	3.48E-04	5.57E-04	4.00E-06	3.3962E-03
468925.00	3765631.61	104767.82	0.2590	1.6093	0.5724	0.6423	1.7987	2.47E-03	7.24E-06	2.45E-05	8.77E-06	9.95E-06	2.74E-05	2.5487E-03
469784.01	3765552.33	104709.31	0.9349	0.6520	0.2381	0.2466	0.6197	2.47E-03	2.61E-05	9.94E-06	3.65E-06	3.82E-06	9.45E-06	2.5224E-03
468917.56	3765513.32	104588.03	0.2437	1.9728	0.4380	0.4828	2.2177	2.47E-03	6.81E-06	3.01E-05	6.71E-06	7.48E-06	3.38E-05	2.5514E-03
468916.32	3765493.60	104568.15	0.2414	2.0609	0.4015	0.4342	2.3200	2.47E-03	6.75E-06	3.14E-05	6.15E-06	6.72E-06	3.54E-05	2.5525E-03
468929.37	3765393.81	104432.60	0.2364	3.0128	0.3046	0.3329	3.4796	2.46E-03	6.61E-06	4.59E-05	4.67E-06	5.15E-06	5.30E-05	2.5783E-03
469032.42	3766049.51	104343.03	0.3601	0.8254	1.5893	1.8151	0.8948	2.46E-03	1.01E-05	1.26E-05	2.43E-05	2.81E-05	2.5495E-03	
469629.70	3765430.71	104233.90	0.6334	0.8862	0.2295	0.2411	0.8290	2.46E-03	1.77E-05	1.35E-05	3.52E-06	3.73E-06	1.26E-05	2.5093E-03
468915.08	3765473.89	104073.28	0.2389	2.1566	0.3701	0.4064	2.4323	2.45E-03	6.68E-06	3.29E-05	5.67E-06	6.29E-06	3.71E-05	2.5430E-03
469706.86	3765491.52	104006.62	0.7707	0.7447	0.2359	0.2458	0.7027	2.45E-03	2.15E-05	1.14E-05	3.61E-06	3.81E-06	1.07E-05	2.5038E-03
468904.46	3765646.14	103944.78	1.2478	0.5446	0.2359	0.2426	0.5220	2.45E-03	3.49E-05	8.30E-06	3.61E-06	3.76E-06	7.96E-06	2.5099E-03
469097.53	3766202.09	103830.91	0.3781	0.5240	2.2375	2.4531	0.5522	2.45E-03	1.06E-05	7.99E-06	3.43E-05	3.80E-05	8.42E-06	2.5479E-03
468926.24	3765651.33	103548.32	0.2612	1.5323	0.6031	0.6788	1.7110	2.44E-03	7.30E-06	2.34E-05	9.24E-06	1.05E-05	2.61E-05	2.5185E-03
468913.84	3765454.17	103290.87	0.2363	2.2402	0.3517	0.3858	2.5307	2.44E-03	6.60E-06	3.42E-05	5.39E-06	5.97E-06	3.86E-05	2.5266E-03
468944.90	3765333.45	103206.59	0.2351	4.0277	0.2679	0.2905	4.8270	2.43E-03	6.57E-06	6.14E-05	4.10E-06	4.50E-06	7.36E-05	2.5841E-03
469183.70	3766367.96	102926.46	0.3636	0.3383	3.7100	4.0736	0.3511	2.43E-03	1.02E-05	5.16E-06	5.68E-05	6.31E-05	5.35E-06	2.5679E-03
468997.69	3765250.96	102897.84	0.2412	12.9422	0.2241	0.2408	20.9549	2.43E-03	6.74E-06	1.97E-04	3.43E-06	3.73E-06	3.19E-04	2.5973E-03
468979.68	3765271.89	102864.89	0.2385	8.1054	0.2342	0.2524	11.2480	2.43E-03	6.67E-06	1.24E-04	3.59E-06	3.91E-06	1.71E-04	2.7351E-03
468927.48	3765671.05	102854.59	0.2636	1.4740	0.6275	0.7078	1.6445	2.43E-03	7.37E-06	2.25E-05	9.61E-06	1.10E-05	2.51E-05	2.5011E-03
468994.23	3765940.23	102811.00	0.3293	1.0221	1.1931	1.3914	1.1331	2.42E-03	9.20E-06	1.56E-05	1.83E-05	2.15E-05	1.73E-05	2.5065E-03
469550.87	3765366.79	102776.75	0.5200	0.9550	0.1229	0.2157	0.9467	2.42E-03	1.45E-05	1.56E-05	3.30E-06	3.53E-06	1.44E-05	2.5742E-03
468928.13	3765374.10	102661.85	0.2334	3.0908	0.2917	0.3177	3.5835	2.42E-03	6.52E-06	4.71E-05	4.47E-06	4.92E-06	5.46E-05	2.5388E-03
469861.16	3765613.13	102569.88	1.1168	0.5715	0.2360	0.2433	0.5465	2.42E-03	3.12E-05	8.71E-06	3.62E-06	3.77E-06	8.33E-06	2.4746E-03
469653.63	3765444.61	102547.37	0.6609	0.8221	0.2298	0.2408	0.7711	2.42E-03	1.85E-05	1.25E-05	3.52E-06	3.73E-06	1.18E-05	2.4684E-03
469035.59	3766067.36	102332.29	0.3592	0.7717	1.6154	1.8307	0.8329	2.41E-03	1.00E-05	1.18E-05	2.47E-05	2.83E-05	2.5009E-03	
468961.67	3765292.81	102206.75	0.2354	5.6492	0.2445	0.2646	7.1935	2.41E-03	6.58E-06	8.61E-05	3.74E-06	4.10E-06	1.10E-04	2.6206E-03
468912.60	3765434.45	102194.49	0.2336	2.3174	0.3352	0.3672	2.6227	2.41E-03	6.53E-06	3.53E-05	5.13E-06	5.69E-06	4.00E-05	2.5027E-03
469128.54	3766271.78	102185.52	0.3735	0.4286	2.6125	2.8411	0.4482	2.41E-03	1.04E-05	6.53E-06	4.00E-05	4.40E-05	6.83E-06	2.5177E-03
468928.71	3765690.76	102059.09	0.2660	1.4174	0.6515	0.7363	1.5800	2.41E-03	7.43E-06	2.16E-05	9.98E-06	1.14E-05	2.41E-05	2.4814E-03
468954.16	3765788.13	102042.66	0.2877	1.2497	0.8245	0.9462	1.3964	2.41E-03	8.04E-06	1.91E-05	1.26E-05	1.47E-05	2.13E-05	2.4822E-03
469730.79	3765505.42	101864.31	0.8006	0.7054	0.2349	0.2441	0.6670	2.40E-03	2.24E-05	1.08E-05	3.60E-06	3.78E-06	1.02E-05	2.4530E-03
469069.51	3766150.61	101399.08	0.3694	0.6013	1.9253	2.1292	0.6385	2.39E-03	1.03E-05	9.17E-06	2.95E-05	3.30E-05	9.73E-06	2.4830E-03
468929.95	3765710.48	101256.57	0.2686	1.3646	0.6748	0.7639	1.5200	2.39E-03	7.51E-06	2.08E-05	1.03E-05	1.18E-05	2.32E-05	2.4616E-03
469521.80	3765339.46	101048.54	0.4795	1.0651	0.2084	0.2205	0.9812	2.38E-03	1.34E-05	1.62E-05	3.19E-06	3.41E-06	1.50E-05	2.4342E-03
468911.36	3765414.74	100859.75	0.2309	2.4087	0.3189	0.3485	2.7339	2.38E-03	6.45E-06	3.67E-05	4.88E-06	5.40E-06	4.17E-05	2.4737E-03
468943.66	3765313.74	100849.72	0.2316	4.1673	0.2565	0.2775	5.0359	2.38E-03	6.47E-06	6.35E-05	3.93E-06	4.30E-06	7.68E-05	2.5334E-03
468926.89	3765354.38	100833.85	0.2305	3.1498	0.2800	0.3040	3.6665	2.38E-03	6.44E-06	4.80E-05	4.29E-06	4.71E-06	5.59E-05	2.4973E-03
469100.52	3766220.30	100809.18	0.3722	0.4903	2.2398	2.4442	0.5155	2.38E-03	1.04E-05	7.47E-06	3.43E-05	3.78E-05	7.86E-06	2.4753E-03
469419.30	3765263.63	100702.43	0.3883	1.2532	0.1918	0.2031	1.1315	2.37E-03	1.09E-05	1.91E-05	2.94E-06	3.14E-06	1.72E-05	2.4482E-03
468955.40	3765807.85	100501.10	0.2894	1.1917	0.8498	0.9761	1.3299	2.37E-03	8.09E-06	1.82E-05	1.30E-05	1.51E-05	2.03E-05	2.4448E-03
469038.76	3766085.21	100305.42	0.3580	0.7219	1.6381	1.8429	0.7759	2.37E-03	1.00E-05	1.10E-05	2.51E-05	2.85E-05	1.18E-05	2.4520E-03
469209.19	3766416.67	100282.79	0.3513	0.3044	5.4532	5.0517	0.3149	2.36E-03	9.82E-06	4.64E-06	6.96E-05	7.82E-05	4.80E-06	2.5321E-03
468999.73	3765975.30	100256.97	0.3331	0.9291	1.2629	1.4614	1.0219	2.36E-03	9.31E-06	1.42E-05	1.93E-05	2.26E-05	1.56E-05	2.4454E-03
469831.87	3765580.13	100107.36	0.9963	0.5946	0.2336	0.2411	0.5672	2.36E-03	2.78E-05	9.07E-06	3.58E-06	3.73E-06	8.65E-06	2.4137E-03
469600.41	3765397.70	100102.34	0.5688	0.9176	0.2205	0.2321	0.8550	2.36E-03	1.59E-05	1.40E-05	3.38E-06	3.59E-06	1.30E-05	2.4106E-03
468931.19	3765730.19	100016.28	0.2706	1.3055	0.6994	0.7928	1.4528	2.36E-03	7.56E-06	1.99E-05	1.07E-05	1.23E-05	2.21E-05	2.4313E-03
469677.56	3765458.51	99977.64	0.6875	0.7744	0.2296	0.2399	0.7283	2.36E-03	1.92E-05	1.18E-05	3.52E-06	3.72E-06	1.11E-05	2.4071E-03
468978.44	3765252.17	99787.06	0.2343	8.4935	0.2251	0.2419	12.0737	2.35E-03	6.55E-06	1.29E-04	3.45E-06	3.75E-06	1.84E-04	2.6806E-03
469754.72	3765519.32	99762.25	0.8302	0.6695	0.2330	0.2419	0.6346	2.35E-03	2.32E-05	1.02E-05	3.57E-06	3.75E-06	9.67E-06	2.4031E-03
468910.12	3765395.02	99454.00	0.2283	2.4669	0.3056	0.3330	2.8055	2.35E-03	6.38E-06	3.76E-05	4.68E-06	5.16E-06	4.28E-05	2.4420E-03
468960.43	3765273.10	99426.85	0.2315	5.8831	0.2347	0.2531	7.6205	2.34E-03	6.47E-06	8.97E-05	3.59E-06	3.92E-06	1.16E-04	2.5646E-03
469885.10	3765627.03	99264.10	1.1409	0.5436	0.2318	0.2391	0.5208	2.34E-03	3.19E-05	8.29E-06	3.55E-06	3.70E-06	7.94E-06	2.3963E-03
469492.74	37653													

469725.42	3765486.31	95874.22	0.7408	0.6942	0.2285	0.2374	0.6559	2.26E-03	2.07E-05	1.06E-05	3.50E-06	3.68E-06	1.00E-05	2.3095E-03
469802.12	3765547.12	95784.89	0.8880	0.6083	0.2286	0.2368	0.5788	2.26E-03	2.48E-05	9.27E-06	3.50E-06	3.67E-06	8.82E-06	2.3090E-03
468892.58	3765415.95	95500.52	0.2231	1.9979	0.3223	0.3497	2.2429	2.25E-03	6.23E-06	3.05E-05	4.94E-06	5.41E-06	3.42E-05	2.3334E-03
469379.76	3765223.07	95307.80	0.3487	1.2972	0.1808	0.1910	1.1611	2.25E-03	9.74E-06	1.98E-05	2.77E-06	2.96E-06	1.77E-05	2.3006E-03
469595.05	3765378.60	95136.45	0.5340	0.8947	0.2134	0.2245	0.8327	2.24E-03	1.49E-05	1.36E-05	3.27E-06	3.48E-06	1.27E-05	2.2916E-03
469134.53	3766308.19	95026.21	0.3573	0.3799	2.6026	2.8130	0.3961	2.24E-03	9.98E-06	5.79E-06	3.99E-05	4.36E-05	6.04E-06	2.3463E-03
469879.73	3765607.92	94852.08	1.0466	0.5420	0.2279	0.2346	0.5186	2.24E-03	2.92E-05	8.26E-06	3.49E-06	3.63E-06	7.90E-06	2.2895E-03
468923.18	3765295.23	94765.68	0.2212	3.3826	0.2466	0.2658	3.9979	2.23E-03	6.18E-06	5.16E-05	3.78E-06	4.11E-06	6.09E-05	2.3615E-03
468906.41	3765335.87	94670.57	0.2202	2.6344	0.2690	0.2904	3.0224	2.23E-03	6.15E-06	4.02E-05	4.12E-06	4.50E-06	4.61E-05	2.3345E-03
469013.43	3766052.88	94690.81	0.3388	0.7447	1.4061	1.5882	0.8048	2.23E-03	9.47E-06	1.14E-05	2.15E-05	2.46E-05	1.23E-05	2.3123E-03
468890.88	3765396.23	94648.23	0.2206	2.0655	0.3065	0.3323	2.3225	2.23E-03	6.16E-06	3.15E-05	4.69E-06	5.15E-06	3.54E-05	2.3150E-03
468906.99	3765652.54	94602.88	0.2486	1.3109	0.5853	0.6547	1.4529	2.23E-03	6.95E-06	2.00E-05	8.96E-06	1.01E-05	2.21E-05	2.2992E-03
469106.51	3766256.71	94599.56	0.3585	0.4311	2.2354	2.4194	0.4515	2.23E-03	1.00E-05	6.57E-06	3.42E-05	3.75E-05	6.88E-06	2.3261E-03
469672.20	3765439.40	94569.83	0.6401	0.7605	0.2229	0.2328	0.7144	2.23E-03	1.79E-05	1.16E-05	3.41E-06	3.61E-06	1.09E-05	2.2777E-03
468934.91	3765789.34	94527.85	0.2746	1.1141	0.7679	0.8723	1.2356	2.23E-03	7.67E-06	1.70E-05	1.18E-05	1.35E-05	1.88E-05	2.2980E-03
469540.16	3765333.55	94427.69	0.4692	0.9789	0.2033	0.2146	0.9042	2.23E-03	1.31E-05	1.49E-05	3.11E-06	3.32E-06	1.38E-05	2.2752E-03
469749.35	3765500.21	93930.09	0.7672	0.6590	0.2268	0.2355	0.6240	2.22E-03	2.14E-05	1.00E-05	3.47E-06	3.65E-06	9.51E-06	2.2633E-03
468975.18	3765943.22	93757.23	0.3110	0.9042	1.0771	1.2378	0.9954	2.21E-03	8.69E-06	1.38E-05	1.65E-05	1.92E-05	1.52E-05	2.2844E-03
468908.23	3765672.26	93713.88	0.2510	1.2595	0.6049	0.6776	1.3947	2.21E-03	7.02E-06	1.92E-05	9.27E-06	1.05E-05	2.13E-05	2.2773E-03
469618.98	3765392.49	93697.73	0.5555	0.8370	0.2155	0.2264	0.7813	2.21E-03	1.55E-05	1.28E-05	3.30E-06	3.50E-06	1.19E-05	2.2567E-03
469433.11	3765250.16	93607.29	0.3763	1.1311	0.1856	0.1960	1.0247	2.21E-03	1.05E-05	1.72E-05	2.84E-06	3.03E-06	1.56E-05	2.2568E-03
469078.50	3766205.23	93565.10	0.3557	0.4924	1.9424	2.1143	0.5187	2.21E-03	9.94E-06	7.51E-06	2.98E-05	3.27E-05	7.91E-06	2.2944E-03
468939.95	3765254.59	93556.80	0.2210	4.5320	0.2259	0.2431	5.6250	2.21E-03	6.18E-06	6.91E-05	3.46E-06	3.76E-06	8.57E-05	2.3746E-03
469366.57	3765209.55	93429.84	0.3367	1.3091	0.1773	0.1872	1.1682	2.20E-03	9.41E-06	2.00E-05	2.72E-06	2.90E-06	1.78E-05	2.2562E-03
468889.64	3765376.52	93424.83	0.2181	2.1219	0.2927	0.3175	2.3901	2.20E-03	6.09E-06	3.24E-05	4.48E-06	4.92E-06	3.64E-05	2.2875E-03
468936.15	3765809.06	93417.85	0.2771	1.0714	0.7899	0.8981	1.1870	2.20E-03	7.74E-06	1.63E-05	1.21E-05	1.39E-05	1.81E-05	2.2713E-03
469262.60	3766516.98	93360.09	0.3190	0.2566	8.3260	9.9665	0.2641	2.20E-03	8.92E-06	3.91E-06	1.28E-04	1.54E-04	4.03E-06	2.5004E-03
468877.83	3765496.02	93031.18	0.2238	1.5739	0.3964	0.4331	1.7447	2.19E-03	6.25E-06	2.40E-05	6.07E-06	6.71E-06	2.66E-05	2.2636E-03
469511.10	3765306.23	93001.06	0.4351	1.0126	0.1966	0.2077	0.9310	2.19E-03	1.22E-05	1.54E-05	3.01E-06	3.22E-06	1.42E-05	2.2413E-03
468905.17	3765316.16	92952.29	0.2173	2.7023	0.2576	0.2777	3.1119	2.19E-03	6.07E-06	4.12E-05	3.94E-06	4.30E-06	4.74E-05	2.2951E-03
469016.60	3766070.73	92891.37	0.3380	0.7003	1.4279	1.6022	0.7539	2.19E-03	9.44E-06	1.07E-05	2.19E-05	2.48E-05	1.15E-05	2.2690E-03
468909.47	3765691.97	92866.82	0.2531	1.2122	0.6241	0.6999	1.3412	2.19E-03	7.07E-06	1.85E-05	9.56E-06	1.08E-05	2.04E-05	2.2565E-03
468921.94	3765275.75	92643.60	0.2180	3.4378	0.2367	0.2547	4.0811	2.18E-03	6.09E-06	5.24E-05	3.63E-06	3.94E-06	6.22E-05	2.3131E-03
468879.07	3765515.74	92601.04	0.2258	1.5173	0.4191	0.4589	1.6807	2.18E-03	6.31E-06	2.31E-05	6.42E-06	7.11E-06	2.56E-05	2.2524E-03
469696.13	3765453.30	92600.73	0.6640	0.7206	0.2227	0.2321	0.6787	2.18E-03	1.86E-05	1.10E-05	3.41E-06	3.59E-06	1.03E-05	2.2307E-03
468876.59	3765476.31	92587.44	0.2217	1.6115	0.3780	0.4043	1.7860	2.18E-03	6.20E-06	2.46E-05	5.79E-06	6.26E-06	2.72E-05	2.2535E-03
469850.44	3765574.92	92368.19	0.9406	0.5611	0.2254	0.2323	0.5356	2.18E-03	2.63E-05	8.55E-06	3.45E-06	3.60E-06	8.16E-06	2.2284E-03
468880.30	3765535.45	92276.29	0.2281	1.4634	0.4412	0.4839	1.6197	2.18E-03	6.37E-06	2.23E-05	6.76E-06	7.49E-06	2.47E-05	2.2438E-03
468881.54	3765555.17	92185.46	0.2303	1.4202	0.4596	0.5052	1.5706	2.17E-03	6.44E-06	2.17E-05	7.04E-06	7.82E-06	2.39E-05	2.2409E-03
469773.29	3765514.11	92098.20	0.7934	0.6271	0.2248	0.2329	0.5952	2.17E-03	2.22E-05	9.56E-06	3.44E-06	3.61E-06	9.07E-06	2.2198E-03
469419.93	3765236.64	92080.20	0.3631	1.1478	0.1819	0.1921	1.0377	2.17E-03	1.01E-05	1.75E-05	2.79E-06	2.98E-06	1.58E-05	2.2208E-03
468888.40	3765356.80	92078.88	0.2156	2.1637	0.2806	0.3034	2.4422	2.17E-03	6.03E-06	3.30E-05	4.30E-06	4.70E-06	3.72E-05	2.2568E-03
468939.65	3765841.00	92070.93	0.2824	1.0135	0.8307	0.9465	1.1212	2.17E-03	7.89E-06	1.55E-05	1.27E-05	1.47E-05	1.71E-05	2.2391E-03
468875.35	3765456.59	91980.48	0.2196	1.6477	0.3607	0.3845	1.8286	2.17E-03	6.14E-06	2.51E-05	5.52E-06	5.95E-06	2.79E-05	2.2398E-03
469642.91	3765406.39	91879.72	0.5766	0.7868	0.2160	0.2262	0.7364	2.17E-03	1.61E-05	1.20E-05	3.31E-06	3.50E-06	1.12E-05	2.2130E-03
468910.71	3765711.69	91867.80	0.2550	1.1648	0.6429	0.7217	1.2877	2.17E-03	7.12E-06	1.78E-05	9.85E-06	1.12E-05	1.96E-05	2.2321E-03
469293.71	3766559.05	91851.75	0.3080	0.2388	13.9895	18.8567	0.2453	2.17E-03	6.81E-06	3.64E-06	2.14E-04	2.92E-04	3.74E-06	2.6884E-03
468882.78	3765574.89	91828.55	0.2324	1.3735	0.4798	0.5289	1.5179	2.17E-03	6.50E-06	2.09E-05	7.35E-06	8.19E-06	2.31E-05	2.2317E-03
469164.69	3766370.97	91711.07	0.3448	0.3252	3.0671	3.3228	0.3375	2.16E-03	9.64E-06	4.96E-06	4.70E-05	5.14E-05	5.15E-06	2.2810E-03
469353.39	3765196.03	91555.42	0.3254	1.3173	0.1740	0.1836	1.1721	2.16E-03	9.09E-06	2.01E-05	2.67E-06	2.84E-06	1.79E-05	2.2117E-03
469109.51	3766274.92	91537.44	0.3516	0.4059	2.2325	2.4079	0.4244	2.16E-03	8.83E-06	6.19E-06	3.42E-05	3.73E-05	6.47E-06	2.2527E-03
469890.67	3765978.28	91440.54	0.3142	0.8282	1.1339	1.2945	0.9058	2.16E-03	8.78E-06	1.26E-05	1.74E-05	2.00E-05	1.38E-05	2.2291E-03
469050.48	3766153.74	91372.66	0.3462	0.5544	1.6772	1.8408	0.5881	2.15E-03	9.67E-06	8.45E-06	2.57E-05	2.85E-05	8.96E-06	2.2361E-03
468874.11	3765436.87	91272.38	0.2175	1.6828	0.3457	0.3672	1.8702	2.15E-03	6.08E-06	2.57E-05	5.29E-06	5.69E-06	2.85E-05	2.2237E-03
468903.93	3765296.44	91153.18	0.2144	2.7381	0.2473	0.2661	3.1617	2.15E-03	5.99E-06	4.17E-05	3.79E-06	4.12E-06	4.82E-05	2.2535E-03
468911.95	3765731.40	91150.76	0.2570	1.1257	0.6617	0.7434	1.2435	2.15E-03	7.18E-06	1.72E-05	1.01E-05	1.15E-05	1.90E-05	2.2146E-03
469019.77	3766088.58	91127.22	0.3370	0.6595	1.4479	1.6145	0.7073	2.15E-03	9.42E-06	1.01E-05	2.22E-05	2.50E-05	1.08E-05	2.2265E-03
469081.49	3766223.43	90856.53	0.3504	0.4619	1.9423	2.1048	0.4855	2.14E-03	9.79E-06	7.04E-06	2.98E-05	3.26E-05	7.40E-06	2.2293E-03
468945.14	3765876.06	90789.60	0.2883	0.9557	0.8825	1.0075	1.0550	2.14E-03	8.06E-06	1.46E-05	1.35E-05	1.56E-05	1.61E-05	2.2089E-03
468913.19	3765751.12	90737.58	0.2599	1.0949	0.6805	0.7653	1.2088	2.14E-03	7.26E-06	1.67E-05	1.04E-05	1.18E-05	1.84E-05	2.2045E-03
468887.16	3765337.08	90660.90	0.2131	2.1978	0.2692	0.2904	2.4850	2.14E-03	5.95E-06	3.35E-05	4.12E-06	4.50E-06	3.79E-05	2.2240E-03
469720.62	3765467.20	90654.40	0.6877	0.6832	0.2222	0.2309	0.6448	2.14E-03	1.92E-05	1.04E-05	3.40E-06	3.57E-06	9.83E-06	2.1844E-03
468884.02	3765594.60	90649.76	0.2334	1.3099	0.5042	0.5576	1.4462	2.14E-03	6.52E-06	2.00E-05	7.72E-06	8.63E-06	2.20E-05	2.2027E-03
469874.37	3765588.81	90648.11	0.9628	0.5398	0.2234	0.2301	0.5161	2.14E-03	2.69E-05	8.23E-0				

469446.92	3765236.70	87004.24	0.3634	1.0371	0.1794	0.1892	0.9433	2.05E-03	1.02E-05	1.58E-05	2.75E-06	2.93E-06	1.44E-05	2.0979E-03
469221.03	3766481.96	86897.19	0.3176	0.2691	4.8651	5.4333	0.2773	2.05E-03	8.88E-06	4.10E-06	7.45E-05	8.41E-05	4.23E-06	2.2252E-03
468854.86	3765438.08	86796.69	0.2100	1.4907	0.3323	0.3554	1.6453	2.05E-03	5.87E-06	2.27E-05	5.09E-06	5.50E-06	2.51E-05	2.1112E-03
468858.58	3765497.23	86744.54	0.2159	1.3667	0.3991	0.4343	1.5054	2.05E-03	6.03E-06	2.08E-05	6.11E-06	6.72E-06	2.29E-05	2.1084E-03
468916.90	3765810.27	86714.05	0.2643	0.9628	0.7351	0.8281	1.0598	2.04E-03	7.39E-06	1.47E-05	1.13E-05	1.28E-06	1.62E-05	2.0473E-03
468867.91	3765338.29	86697.78	0.2064	1.8491	0.2713	0.2912	2.0664	2.04E-03	5.77E-06	2.82E-05	4.15E-06	4.51E-06	3.15E-05	2.1187E-03
469166.06	3766391.27	86597.43	0.3337	0.3074	3.0129	3.2553	0.3186	2.04E-03	9.32E-06	4.69E-06	4.62E-05	5.04E-05	4.86E-06	2.1577E-03
469230.45	3766498.03	86418.70	0.3133	0.2633	5.4186	6.1130	0.2712	2.04E-03	8.76E-06	4.01E-06	8.30E-05	9.47E-05	4.13E-06	2.2326E-03
469202.19	3766449.81	86311.82	0.3253	0.2783	4.0137	4.4081	0.2874	2.04E-03	9.09E-06	4.24E-06	6.15E-05	6.83E-05	4.38E-06	2.1830E-03
468994.44	3766056.26	86257.04	0.3193	0.6744	1.2519	1.4003	0.7264	2.03E-03	8.92E-06	1.03E-05	1.92E-05	2.17E-05	1.11E-05	2.1054E-03
468853.62	3765418.37	86176.29	0.2081	1.5189	0.3164	0.3407	1.6773	2.03E-03	5.81E-06	2.32E-05	4.85E-06	5.28E-06	2.56E-05	2.0970E-03
469714.70	3765448.09	86128.04	0.6404	0.6723	0.2161	0.2246	0.6340	2.03E-03	1.79E-05	1.03E-05	3.31E-06	3.48E-06	9.66E-06	2.0758E-03
468883.44	3765277.94	85982.31	0.2052	2.2924	0.2376	0.2548	2.6019	2.03E-03	5.73E-06	3.50E-05	3.64E-06	3.95E-06	3.97E-05	2.1157E-03
468956.13	3765946.20	85904.63	0.2932	0.8076	0.9776	1.1096	0.8837	2.03E-03	8.20E-06	1.23E-05	1.50E-05	1.72E-05	1.35E-05	2.0920E-03
469313.85	3765155.47	85900.80	0.2945	1.3241	0.1644	0.1733	1.1694	2.03E-03	8.23E-06	2.02E-05	2.52E-06	2.68E-06	1.78E-05	2.0773E-03
469433.74	3765223.18	85890.40	0.3516	1.0394	0.1763	0.1858	0.9434	2.03E-03	9.82E-06	1.58E-05	2.70E-06	2.88E-06	1.44E-05	2.0712E-03
469272.26	3766552.65	85803.56	0.3035	0.2367	9.3880	11.5950	0.2432	2.02E-03	6.48E-06	3.61E-06	1.44E-04	1.80E-04	3.71E-06	2.3627E-03
468861.06	3765536.66	85746.68	0.2193	1.2744	0.4397	0.4813	1.4017	2.02E-03	8.13E-06	1.94E-05	6.74E-06	7.45E-06	2.14E-05	2.0833E-03
469367.20	3765182.56	85706.94	0.3166	1.1789	0.1684	0.1776	1.0557	2.02E-03	8.85E-06	1.80E-05	2.58E-06	2.75E-06	1.61E-05	2.0695E-03
468859.82	3765516.95	85600.87	0.2174	1.3040	0.4261	0.4656	1.4349	2.02E-03	6.08E-06	1.99E-05	6.53E-06	7.21E-06	2.19E-05	2.0803E-03
469661.48	3765401.18	85522.72	0.5047	0.7285	0.2101	0.2193	0.6832	2.02E-03	1.56E-05	1.11E-05	3.22E-06	3.40E-06	1.04E-05	2.0607E-03
468866.67	3765318.58	85520.30	0.2040	1.8781	0.2593	0.2787	2.1003	2.02E-03	5.70E-06	2.86E-05	3.97E-06	4.32E-06	3.20E-05	2.0915E-03
469087.49	3766259.84	85511.65	0.3389	0.4095	1.9396	2.0857	0.4286	2.02E-03	9.47E-06	6.24E-06	2.97E-05	3.23E-05	2.1009E-03	
469239.88	3766514.10	85489.73	0.3087	0.2564	6.0043	6.8648	0.2638	2.02E-03	8.63E-06	3.91E-06	9.20E-05	1.06E-04	4.02E-06	2.2309E-03
468862.30	3765556.38	85481.98	0.2210	1.2368	0.4557	0.4999	1.3594	2.02E-03	6.18E-06	1.89E-05	6.98E-06	7.74E-06	2.07E-05	2.0764E-03
468852.38	3765398.65	85458.84	0.2061	1.5440	0.3037	0.3266	1.7063	2.02E-03	5.76E-06	2.35E-05	4.65E-06	5.06E-06	2.60E-05	2.0804E-03
469791.85	3765508.90	85447.41	0.7579	0.5890	0.2172	0.2245	0.5593	2.02E-03	2.12E-05	8.98E-06	3.33E-06	3.48E-06	8.53E-06	2.0606E-03
468900.21	3765237.29	85428.56	0.2055	2.7885	0.2190	0.2347	3.2248	2.01E-03	5.74E-06	4.25E-05	3.35E-06	3.63E-06	4.92E-05	2.1191E-03
469115.50	3766311.33	85379.71	0.3372	0.3618	2.2201	2.3804	0.3771	2.01E-03	9.42E-06	5.52E-06	3.40E-05	3.69E-05	5.75E-06	2.1051E-03
468887.74	3765653.75	85275.51	0.2407	1.1099	0.5561	0.6180	1.2214	2.01E-03	6.73E-06	1.69E-05	8.52E-06	9.57E-06	1.86E-05	2.0714E-03
468920.59	3765843.98	85262.54	0.2695	0.9094	0.7716	0.8706	0.9995	2.01E-03	7.53E-06	1.39E-05	1.18E-05	1.35E-05	1.52E-05	2.0727E-03
468863.54	3765576.10	85126.31	0.2227	1.1990	0.4715	0.5182	1.3170	2.01E-03	6.22E-06	1.83E-05	7.22E-06	8.02E-06	2.01E-05	2.0674E-03
469296.88	3766579.53	85073.93	0.2968	0.2271	13.4270	18.0546	0.2331	2.01E-03	8.30E-06	3.46E-06	2.06E-04	2.80E-04	3.55E-06	2.5068E-03
469059.47	3766208.36	84952.62	0.3362	0.4643	1.7038	1.8438	0.4888	2.00E-03	9.40E-06	7.08E-06	2.61E-05	2.85E-05	7.45E-06	2.0820E-03
468997.61	3766074.11	84656.92	0.3187	0.6376	1.2703	1.4129	0.6845	2.00E-03	8.91E-06	9.72E-06	1.95E-05	2.19E-05	1.04E-05	2.0669E-03
468851.14	3765378.94	84653.96	0.2041	1.5653	0.2922	0.3138	1.7313	2.00E-03	5.70E-06	2.39E-05	4.48E-06	4.86E-06	2.64E-05	2.0617E-03
468891.46	3765712.90	84583.54	0.2437	1.0243	0.6059	0.6749	1.1251	1.99E-03	6.81E-06	1.56E-05	9.28E-06	1.05E-05	1.72E-05	2.0541E-03
469605.94	3765349.05	84524.75	0.4838	0.7856	0.2008	0.2106	0.7319	1.99E-03	1.35E-05	1.20E-05	3.07E-06	3.26E-06	1.12E-05	2.0364E-03
468890.22	3765693.18	84325.03	0.2428	1.0427	0.5878	0.6543	1.1459	1.99E-03	6.78E-06	1.59E-05	9.00E-06	1.01E-05	1.75E-05	2.0479E-03
469738.63	3765461.99	84314.55	0.6616	0.6386	0.2154	0.2234	0.6036	1.99E-03	1.85E-05	9.74E-06	3.30E-06	3.46E-06	9.20E-06	2.0326E-03
468882.20	3765258.22	84314.27	0.2025	2.2940	0.2284	0.2447	2.6018	1.99E-03	5.66E-06	3.50E-05	3.50E-06	3.79E-06	3.97E-05	2.0760E-03
468864.78	3765595.81	84265.51	0.2243	1.1524	0.4884	0.5378	1.2649	1.99E-03	6.27E-06	1.76E-05	7.48E-06	8.33E-06	1.93E-05	2.0462E-03
468892.70	3765732.61	84234.47	0.2455	0.9974	0.6225	0.6939	1.0949	1.99E-03	6.86E-06	1.52E-05	9.53E-06	1.07E-05	1.67E-05	2.0456E-03
468865.43	3765298.86	84164.49	0.2016	1.9035	0.2482	0.2663	2.1291	1.98E-03	5.63E-06	2.90E-05	3.80E-06	4.12E-06	3.25E-05	2.0599E-03
469420.56	3765209.66	83971.10	0.3385	1.0524	0.1726	0.1819	0.9533	1.98E-03	9.46E-06	1.60E-05	2.64E-06	2.82E-06	1.45E-05	2.0258E-03
469300.66	3765141.95	83913.12	0.2849	1.3158	0.1616	0.1701	1.1596	1.98E-03	7.96E-06	2.01E-05	2.48E-06	2.63E-06	1.77E-05	2.0298E-03
468893.94	3765752.33	83863.63	0.2479	0.9920	0.6391	0.7130	1.0664	1.98E-03	6.93E-06	1.48E-05	9.79E-06	1.10E-05	1.63E-05	2.0366E-03
469354.02	3765169.04	83838.37	0.3059	1.1777	0.1655	0.1743	1.0523	1.98E-03	8.55E-06	1.80E-05	2.53E-06	2.70E-06	1.60E-05	2.0250E-03
468961.62	3765981.27	83802.17	0.2974	0.7447	1.0244	1.1562	0.8103	1.98E-03	8.31E-06	1.14E-05	1.57E-05	1.79E-05	1.24E-05	2.0419E-03
468888.98	3765673.47	83781.99	0.2426	1.0586	0.5689	0.6325	1.1639	1.98E-03	6.78E-06	1.61E-05	8.71E-06	9.79E-06	1.77E-05	2.0350E-03
468849.90	3765359.22	83769.93	0.2020	1.5834	0.2814	0.3018	1.7522	1.98E-03	5.65E-06	2.41E-05	4.31E-06	4.67E-06	2.67E-05	2.0410E-03
469632.18	3765368.17	83642.09	0.5083	0.7483	0.2033	0.2127	0.6993	1.97E-03	1.42E-05	1.14E-05	3.11E-06	3.29E-06	1.07E-05	2.0152E-03
469685.41	3765415.08	83640.67	0.5788	0.6917	0.2103	0.2191	0.6503	1.97E-03	1.62E-05	1.05E-05	3.22E-06	3.39E-06	9.91E-06	2.0158E-03
469815.78	3765522.80	83635.58	0.7800	0.5615	0.2147	0.2216	0.5341	1.97E-03	2.18E-05	8.56E-06	3.29E-06	3.43E-06	8.14E-06	2.0176E-03
469576.88	3765321.73	83567.55	0.4490	0.8258	0.1947	0.2044	0.7665	1.97E-03	1.25E-05	2.98E-06	3.17E-06	3.17E-06	1.17E-05	2.0338E-03
468926.09	3765879.05	83555.60	0.2733	0.8520	0.8137	0.9189	0.9344	1.97E-03	7.64E-06	1.30E-05	1.25E-05	1.42E-05	1.42E-05	2.0321E-03
469249.30	3766530.17	83533.33	0.3040	0.2471	6.5267	7.5693	0.2542	1.97E-03	8.49E-06	3.77E-06	1.00E-04	1.17E-04	3.87E-06	2.2033E-03
469481.87	3765249.97	83514.35	0.3738	0.9537	0.1800	0.1897	0.8733	1.97E-03	1.04E-05	1.45E-05	2.76E-06	2.94E-06	1.33E-05	2.0135E-03
468898.97	3765217.58	83465.71	0.2024	2.7600	0.2105	0.2253	3.1783	1.97E-03	5.66E-06	4.21E-05	3.22E-06	3.49E-06	4.84E-05	2.0713E-03
469000.78	3766091.96	83013.21	0.3176	0.6025	1.2860	1.4225	0.6447	1.96E-03	8.88E-06	9.19E-06	1.97E-05	2.20E-05	9.83E-06	2.0273E-03
469031.45	3766156.87	82964.12	0.3256	0.5142	1.4760	1.6077	0.5449	1.96E-03	9.10E-06	7.84E-06	2.26E-05	2.49E-05	8.31E-06	2.0293E-03
468895.18	3765772.05	82867.69	0.2495	0.9373	0.6547	0.7308	1.0276	1.95E-03	6.97E-06	1.43E-05	1.00E-05	1.13E-05	1.57E-05	2.0126E-03
468848.66	3765339.50	82821.13	0.1999	1.5984	0.2708	0.2899	1.7695	1.95E-03	5.59E-06	2.44E-05	4.15E-06	4.49E-06	2.70E-05	2.0188E-03
469090.48	3766278.05	82800.99	0.3327	0.3863	1.9345									

469434.36	3765196.20	79482.68	0.3298	0.9375	0.1682	0.1770	0.8531	1.87E-03	9.22E-06	1.43E-05	2.58E-06	2.74E-06	1.30E-05	1.9163E-03
469810.42	3765503.69	79448.17	0.7237	0.5535	0.2098	0.2165	0.5261	1.87E-03	2.02E-05	8.44E-06	3.21E-06	3.35E-06	8.02E-06	1.9169E-03
469624.29	3765343.14	79423.16	0.4705	0.7255	0.1958	0.2047	0.6773	1.87E-03	1.31E-05	3.00E-06	3.17E-06	1.03E-05	1.9138E-03	
469299.32	376599.75	79390.53	0.2861	0.2176	12.8778	17.2900	0.2233	1.87E-03	8.00E-06	3.32E-06	1.97E-04	2.68E-04	3.40E-06	2.3520E-03
469037.44	3766193.28	79311.94	0.3206	0.4610	1.4952	1.6162	0.4860	1.87E-03	8.96E-06	7.03E-06	2.29E-05	2.50E-05	7.41E-06	1.9418E-03
469863.65	3765550.60	79277.10	0.8206	0.5137	0.2097	0.2158	0.4903	1.87E-03	2.29E-05	7.83E-06	3.21E-06	3.34E-06	7.47E-06	1.9144E-03
469367.83	3765155.58	79237.79	0.2986	1.0460	0.1609	0.1693	0.9409	1.87E-03	8.34E-06	1.59E-05	2.47E-06	2.62E-06	1.43E-05	1.9124E-03
468867.25	3765635.24	79229.70	0.2318	1.0101	0.5128	0.5659	1.1059	1.87E-03	6.48E-06	1.54E-05	7.85E-06	8.76E-06	1.69E-05	1.9238E-03
469254.11	3765100.74	79191.80	0.2590	1.2998	0.1541	0.1618	1.1385	1.87E-03	7.24E-06	1.98E-05	2.36E-06	2.50E-06	1.74E-05	1.9169E-03
468937.07	3765949.18	78977.17	0.2755	0.7262	0.8907	1.0003	0.7902	1.86E-03	7.70E-06	1.11E-05	1.36E-05	1.55E-05	1.20E-05	1.9225E-03
468975.46	3766059.63	78920.26	0.3013	0.6138	1.1216	1.2438	0.6592	1.86E-03	8.42E-06	9.36E-06	1.72E-05	1.93E-05	1.00E-05	1.9255E-03
469595.23	3765315.82	78784.78	0.4380	0.7593	0.1906	0.1996	0.7064	1.86E-03	1.22E-05	1.16E-05	2.92E-06	3.09E-06	1.08E-05	1.8986E-03
469757.20	3765456.78	78731.99	0.6362	0.5985	0.2087	0.2163	0.5665	1.86E-03	1.78E-05	9.13E-06	3.20E-06	3.35E-06	8.64E-06	1.8988E-03
468873.45	3765733.82	78698.69	0.2356	0.9005	0.5868	0.6497	0.9833	1.86E-03	6.58E-06	1.37E-05	8.99E-06	1.01E-05	1.50E-05	1.9103E-03
469496.82	3765238.40	78649.35	0.3628	0.8691	0.1750	0.1843	0.7984	1.85E-03	1.01E-05	1.33E-05	2.68E-06	2.85E-06	1.22E-05	1.8959E-03
468872.21	3765714.11	78555.55	0.2343	0.9153	0.5710	0.6318	0.9999	1.85E-03	6.55E-06	1.40E-05	8.75E-06	9.78E-06	1.52E-05	1.9069E-03
469201.02	3766483.70	78518.20	0.3052	0.2613	3.8225	4.1820	0.2698	1.85E-03	8.53E-06	3.98E-06	5.86E-05	6.48E-05	4.11E-06	1.9916E-03
469272.65	3765104.31	78354.89	0.2626	1.2200	0.1538	0.1614	1.0756	1.85E-03	7.34E-06	1.86E-05	2.36E-06	2.50E-06	1.64E-05	1.8950E-03
499146.86	3766393.10	78339.62	0.3181	0.2969	2.5303	2.7074	0.3077	1.85E-03	8.89E-06	4.53E-06	3.88E-05	4.19E-05	4.69E-06	1.9463E-03
469650.75	3765362.96	78336.80	0.4943	0.6929	0.1983	0.2068	0.6488	1.85E-03	1.38E-05	1.06E-05	3.04E-06	3.20E-06	9.89E-06	1.8879E-03
469703.97	3765409.87	78278.30	0.5598	0.6449	0.2047	0.2126	0.6072	1.85E-03	1.56E-05	9.83E-06	3.13E-06	3.29E-06	9.26E-06	1.8872E-03
468860.48	3765220.00	78237.47	0.1915	1.8944	0.2113	0.2255	2.0999	1.85E-03	3.55E-06	2.89E-05	3.24E-06	3.49E-06	3.20E-05	1.9181E-03
469421.18	3765182.68	78230.27	0.3191	0.9454	0.1648	0.1735	0.8589	1.84E-03	8.92E-06	1.44E-05	2.52E-06	2.69E-06	1.31E-05	1.8866E-03
469354.65	3765142.06	78159.64	0.2901	1.0388	0.1582	0.1664	0.9332	1.84E-03	8.11E-06	1.58E-05	2.42E-06	2.58E-06	1.42E-05	1.8864E-03
469310.09	3766623.02	78143.27	0.2769	0.2155	17.9631	26.5766	0.2208	1.84E-03	7.74E-06	3.29E-06	2.75E-04	4.12E-04	3.37E-06	2.5439E-03
469566.17	3765288.49	78086.43	0.4091	0.7803	0.1850	0.1940	0.7236	1.84E-03	1.14E-05	1.19E-05	2.83E-06	3.00E-06	1.10E-05	1.8817E-03
468904.29	3765864.50	78046.42	0.2573	0.7906	0.7345	0.8218	0.8630	1.84E-03	7.19E-06	1.21E-05	1.13E-05	1.27E-05	1.32E-05	1.8970E-03
469068.46	3766262.97	77977.23	0.3217	0.3908	1.7038	1.8229	0.4089	1.84E-03	8.99E-06	5.96E-06	2.61E-05	2.82E-05	6.23E-06	1.9145E-03
468874.69	3765753.54	77908.95	0.2370	0.8719	0.6003	0.6649	0.9514	1.84E-03	6.62E-06	1.33E-05	9.19E-06	1.03E-05	1.45E-05	1.8913E-03
468870.11	3765196.79	77799.86	0.1915	2.0401	0.2020	0.2157	2.2633	1.83E-03	3.55E-06	3.11E-05	3.09E-06	3.34E-06	3.45E-05	1.9122E-03
468880.05	3765180.41	77724.23	0.1921	2.1967	0.1963	0.2093	2.4415	1.83E-03	5.37E-06	3.35E-05	3.01E-06	3.24E-06	3.72E-05	1.9153E-03
469291.20	3765107.88	77627.69	0.2665	1.1465	0.1535	0.1612	1.0171	1.83E-03	4.75E-06	1.75E-05	2.35E-06	2.50E-06	1.55E-05	1.8760E-03
499173.81	3766437.30	77464.56	0.3124	0.2738	2.9972	3.2302	0.2830	1.83E-03	8.73E-06	4.17E-06	4.59E-05	5.00E-05	4.31E-06	1.9400E-03
468978.62	3766077.48	77437.69	0.3006	0.5824	1.1361	1.2538	0.6236	1.83E-03	8.40E-06	8.88E-06	1.74E-05	1.94E-05	9.51E-06	1.8898E-03
469096.47	3766314.46	77434.03	0.3197	0.3460	1.9207	2.0467	0.3605	1.83E-03	8.94E-06	5.27E-06	2.94E-05	3.17E-05	5.49E-06	1.9070E-03
469040.44	3766211.49	77338.33	0.3171	0.4360	1.4994	1.6142	0.4587	1.82E-03	8.86E-06	6.65E-06	2.30E-05	2.50E-05	6.99E-06	1.8943E-03
468835.60	3765262.16	77197.52	0.1888	1.5322	0.2300	0.2454	1.6832	1.82E-03	5.28E-06	2.34E-05	3.52E-06	3.80E-06	2.57E-05	1.8822E-03
469781.13	3765470.68	77190.47	0.6550	0.5708	0.2070	0.2141	0.5412	1.82E-03	1.83E-05	8.70E-06	3.17E-06	3.31E-06	8.25E-06	1.8621E-03
469408.00	3765169.16	77129.60	0.3093	0.9443	0.1620	0.1704	0.8568	1.82E-03	8.64E-06	1.44E-05	2.48E-06	2.64E-06	1.31E-05	1.8602E-03
468942.56	3765984.25	77046.01	0.2785	0.6732	0.9296	1.0387	0.7291	1.82E-03	7.78E-06	1.03E-05	1.42E-05	1.61E-05	1.11E-05	1.8765E-03
469341.46	3765128.54	77039.26	0.2818	1.0244	0.1559	0.1638	0.9195	1.82E-03	7.88E-06	1.56E-05	2.39E-06	2.54E-06	1.40E-05	1.8593E-03
469834.35	3765517.59	76897.34	0.7430	0.5285	0.2073	0.2136	0.5032	1.81E-03	2.08E-05	8.06E-06	3.18E-06	3.31E-06	7.67E-06	1.8565E-03
469247.45	3765083.34	76728.01	0.2514	1.1851	0.1509	0.1581	1.0447	1.81E-03	7.03E-06	1.81E-05	2.31E-06	2.45E-06	1.59E-05	1.8553E-03
469727.91	3765423.77	76719.01	0.5771	0.6158	0.2045	0.2119	0.5811	1.81E-03	1.61E-05	9.39E-06	3.13E-06	3.28E-06	8.86E-06	1.8501E-03
469526.09	3765250.61	76664.56	0.3726	0.8115	0.1766	0.1855	0.7487	1.81E-03	1.04E-05	1.24E-05	2.70E-06	2.87E-06	1.14E-05	1.8478E-03
469263.20	3766567.21	76658.37	0.2891	0.2267	7.0571	8.3521	0.2331	1.81E-03	8.08E-06	3.46E-06	1.08E-04	1.29E-04	3.55E-06	2.0604E-03
469674.68	3765376.86	76658.16	0.5098	0.6608	0.1989	0.2070	0.6203	1.81E-03	1.42E-05	1.01E-05	3.05E-06	3.21E-06	9.46E-06	1.8479E-03
468875.93	3765773.26	76578.07	0.2377	0.8360	0.6122	0.6782	0.9114	1.81E-03	6.64E-06	1.27E-05	9.38E-06	1.05E-05	1.39E-05	1.8591E-03
469219.15	3766514.64	76487.53	0.2975	0.2473	4.4031	4.8872	0.2548	1.80E-03	8.31E-06	3.77E-06	6.74E-05	7.75E-05	3.88E-06	1.9629E-03
469394.82	3765155.64	76182.87	0.3003	0.9379	0.1594	0.1676	0.8499	1.80E-03	8.39E-06	1.43E-05	2.44E-06	2.60E-06	1.30E-05	1.8373E-03
468878.96	3765162.78	76107.03	0.1805	2.0944	0.1906	0.2029	2.3000	1.79E-03	5.30E-06	3.19E-05	2.92E-06	3.14E-06	3.51E-05	1.8732E-03
469474.54	3765209.77	76087.57	0.3389	0.8571	0.1685	0.1772	0.7856	1.79E-03	9.47E-06	1.31E-05	2.58E-06	2.74E-06	1.20E-05	1.8342E-03
468909.78	3765899.57	76085.13	0.2590	0.7371	0.7681	0.8588	0.8026	1.79E-03	1.24E-06	1.12E-05	1.18E-05	1.33E-05	1.22E-05	1.8501E-03
469266.37	3765086.98	75996.30	0.2550	1.1211	0.1505	0.1578	0.9939	1.79E-03	7.13E-06	1.71E-05	2.31E-06	2.44E-06	1.52E-05	1.8364E-03
468864.72	3765180.81	75886.78	0.1881	1.9128	0.1959	0.2089	2.1010	1.79E-03	5.26E-06	2.92E-05	3.00E-06	3.23E-06	3.20E-05	1.8623E-03
469891.79	3766095.93	75883.64	0.2994	0.5517	1.1480	1.2606	0.5890	1.79E-03	8.37E-06	8.41E-06	1.76E-05	1.95E-05	8.98E-06	1.8524E-03
469328.28	3765115.02	75883.41	0.2739	1.0029	0.1536	0.1612	0.9002	1.79E-03	7.66E-06	1.53E-05	2.35E-06	2.50E-06	1.37E-05	1.8311E-03
469012.42	3766160.01	75781.22	0.3075	0.4789	1.3093	1.4200	0.5068	1.79E-03	8.59E-06	7.30E-06	2.01E-05	2.20E-05	7.73E-06	1.8528E-03
468868.49	3765654.96	75751.53	0.2324	0.9372	0.5141	0.5672	1.0248	1.79E-03	6.50E-06	1.43E-05	7.88E-06	8.78E-06	1.56E-05	1.8395E-03
468870.97	3765694.99	75725.08	0.2337	0.8937	0.5440	0.6009	0.9761	1.79E-03	6.53E-06	1.36E-05	8.33E-06	9.30E-06	1.49E-05	1.8385E-03
469805.06	3765484.58	75689.91	0.6735	0.5455	0.2051	0.2117	0.5181	1.79E-03	1.58E-05	8.32E-06	3.14E-06	3.28E-06	7.90E-06	1.8265E-03
468946.96	3766009.45	75660.55	0.2805	0.6364	0.9572	1.0649	0.6868	1.78E-03	7.84E-06	9.70E-06	1.47E-05	1.65E-05	1.05E-05	1.8435E-03
468830.81	3765244.47	75556.24	0.1858	1.4829	0.2221	0.2366	1.6215	1.78E-03	5.19E-06	2.26E-05	3.40E-06	3.66E-06	2.47E-05	1.8414E-03
468877.17	3765792.97	75438.55	0.2386	0.8047	0.6245									

469278.98	3765073.29	72496.82	0.2499	0.9962	0.1465	0.1535	0.8913	1.71E-03	6.98E-06	1.52E-05	2.24E-06	2.38E-06	1.36E-05	1.7501E-03
469018.41	3766196.42	72454.69	0.3028	0.4315	1.3233	1.4234	0.4545	1.71E-03	8.46E-06	6.58E-06	2.03E-05	2.20E-05	6.93E-06	1.7730E-03
468956.47	3766063.00	72439.96	0.2848	0.5606	1.0093	1.1107	0.6002	1.71E-03	7.96E-06	8.55E-06	1.55E-05	1.72E-05	9.15E-06	1.7667E-03
468858.56	3765144.43	72414.79	0.1821	1.6889	0.1845	0.1960	1.8159	1.71E-03	5.09E-06	2.57E-05	2.83E-06	3.04E-06	2.77E-05	1.7722E-03
468844.95	3765164.02	72348.27	0.1811	1.5876	0.1898	0.2021	1.7137	1.71E-03	5.06E-06	2.42E-05	2.91E-06	3.13E-06	2.61E-05	1.7676E-03
469799.70	3765465.47	72302.50	0.6284	0.5372	0.2006	0.2071	0.5099	1.71E-03	1.76E-05	8.19E-06	3.07E-06	3.21E-06	7.77E-06	1.7449E-03
469408.63	3765142.17	72215.71	0.2927	0.8284	0.1559	0.1635	0.7555	1.70E-03	8.18E-06	1.26E-05	2.39E-06	2.53E-06	1.15E-05	1.7430E-03
468885.23	3765867.48	72203.72	0.2440	0.7117	0.6810	0.7559	0.7728	1.70E-03	6.82E-06	1.09E-05	1.04E-05	1.17E-05	1.18E-05	1.7544E-03
469266.66	3766587.80	72177.83	0.2793	0.2165	6.9070	8.1875	0.2227	1.70E-03	7.81E-06	3.30E-06	1.06E-04	1.27E-04	3.39E-06	1.9493E-03
469342.09	3765101.56	72161.29	0.2681	0.8768	0.1501	0.1572	0.7938	1.70E-03	7.49E-06	1.34E-05	2.30E-06	2.43E-06	1.21E-05	1.7395E-03
469693.25	3765371.65	72151.51	0.4943	0.6167	0.1938	0.2014	0.5799	1.70E-03	1.38E-05	9.40E-06	2.97E-06	3.12E-06	8.84E-06	1.7397E-03
469746.47	3765418.56	72003.50	0.5568	0.5765	0.1986	0.2056	0.5447	1.70E-03	1.56E-05	8.79E-06	3.04E-06	3.18E-06	8.30E-06	1.7370E-03
468920.77	3765969.70	71987.84	0.2610	0.6344	0.8311	0.9228	0.6856	1.70E-03	7.29E-06	9.67E-06	1.27E-05	1.43E-05	1.05E-05	1.7521E-03
469488.35	3765196.31	71853.10	0.3281	0.7728	0.1644	0.1725	0.7110	1.69E-03	9.17E-06	1.18E-05	2.52E-06	2.67E-06	1.08E-05	1.7315E-03
468816.09	3765212.87	71838.57	0.1788	1.3431	0.2072	0.2204	1.4512	1.69E-03	5.00E-06	2.05E-05	3.17E-06	3.41E-06	2.21E-05	1.7484E-03
469298.21	3765076.99	71737.10	0.2534	0.9294	0.1467	0.1535	0.8365	1.69E-03	7.08E-06	1.42E-05	2.25E-06	2.38E-06	1.28E-05	1.7304E-03
468867.81	3765122.25	71618.77	0.1816	1.7044	0.1783	0.1891	1.8128	1.69E-03	5.07E-06	2.60E-05	2.73E-06	2.93E-06	2.76E-05	1.7534E-03
469852.92	3765512.38	71591.34	0.7077	0.4975	0.2002	0.2060	0.4741	1.69E-03	1.98E-05	7.58E-06	3.07E-06	3.19E-06	7.23E-06	1.7292E-03
469395.44	3765128.65	71370.01	0.2846	0.8107	0.1536	0.1611	0.7392	1.68E-03	7.95E-06	1.24E-05	2.35E-06	2.49E-06	1.13E-05	1.7196E-03
469475.16	3765182.79	71159.18	0.3185	0.7720	0.1618	0.1697	0.7095	1.68E-03	8.90E-06	1.18E-05	2.48E-06	2.63E-06	1.08E-05	1.7148E-03
468959.64	3766080.85	70995.03	0.2826	0.5325	1.0196	1.1172	0.5686	1.67E-03	7.90E-06	8.12E-06	1.56E-05	1.73E-05	8.67E-06	1.7319E-03
469823.63	3765479.37	70920.08	0.6448	0.5144	0.1987	0.2048	0.4891	1.67E-03	1.80E-05	7.84E-06	3.04E-06	3.17E-06	7.46E-06	1.7121E-03
469317.44	3765080.69	70788.09	0.2564	0.8750	0.1466	0.1534	0.7913	1.67E-03	7.17E-06	1.33E-05	2.25E-06	2.38E-06	1.21E-05	1.7066E-03
468924.80	3765994.97	70744.40	0.2632	0.6030	0.8546	0.9456	0.6497	1.67E-03	7.36E-06	9.19E-06	1.31E-05	1.46E-05	9.90E-06	1.7226E-03
468841.94	3765144.21	70643.49	0.1781	1.4936	0.1839	0.1954	1.5970	1.67E-03	4.98E-06	2.28E-05	2.82E-06	3.03E-06	2.43E-05	1.7239E-03
469717.18	3765385.55	70628.09	0.5086	0.5899	0.1941	0.2011	0.5559	1.67E-03	1.42E-05	8.99E-06	2.97E-06	3.11E-06	8.47E-06	1.7034E-03
469770.40	3765432.46	70595.88	0.5724	0.5517	0.1975	0.2043	0.5225	1.66E-03	1.60E-05	8.41E-06	3.03E-06	3.16E-06	7.96E-06	1.7034E-03
469077.44	3766317.59	70528.45	0.3027	0.3300	1.7715	1.7715	0.3437	1.66E-03	8.46E-06	5.03E-06	2.56E-05	2.74E-05	5.24E-06	1.7350E-03
469461.98	3765169.27	70482.43	0.3094	0.7681	0.1593	0.1670	0.7053	1.66E-03	8.65E-06	1.17E-05	2.44E-06	2.59E-06	1.08E-05	1.6983E-03
469190.03	3766500.85	70469.45	0.2900	0.2455	3.5222	0.2529	0.2529	1.66E-03	8.10E-06	3.74E-06	4.98E-05	5.45E-05	3.85E-06	1.7820E-03
469382.26	3765115.13	70437.70	0.2767	0.8025	0.1513	0.1584	0.7315	1.66E-03	7.73E-06	1.22E-05	2.32E-06	2.45E-06	1.11E-05	1.6970E-03
469631.95	3765303.99	70336.68	0.4150	0.6529	0.1821	0.1902	0.6103	1.66E-03	1.16E-05	9.95E-06	2.79E-06	2.94E-06	9.30E-06	1.6954E-03
469570.84	3765252.12	70240.85	0.3687	0.7001	0.1730	0.1811	0.6502	1.66E-03	1.03E-05	1.07E-05	2.65E-06	2.80E-06	9.91E-06	1.6928E-03
468890.73	3765902.55	70234.69	0.2451	0.6638	0.7077	0.7847	0.7192	1.66E-03	6.85E-06	1.01E-05	1.08E-05	1.22E-05	1.10E-05	1.7073E-03
468852.49	3765122.65	70172.05	0.1781	1.5259	0.1781	0.1889	1.6188	1.65E-03	4.98E-06	2.33E-05	2.73E-06	2.92E-06	2.47E-05	1.7135E-03
469661.01	3765331.31	70161.72	0.4438	0.6234	0.1864	0.1940	0.5844	1.65E-03	1.24E-05	9.50E-06	2.85E-06	3.00E-06	8.91E-06	1.6913E-03
469154.86	3766440.85	70138.01	0.2975	0.2636	2.4931	2.6597	0.2725	1.65E-03	8.31E-06	4.02E-06	3.82E-05	4.12E-05	4.15E-06	1.7499E-03
468927.97	3766012.82	69978.05	0.2654	0.5828	0.8725	0.9631	0.6266	1.65E-03	7.42E-06	8.89E-06	1.34E-05	1.49E-05	9.55E-06	1.7044E-03
469602.89	3765276.67	69911.20	0.3892	0.6717	0.1772	0.1851	0.6257	1.65E-03	1.09E-05	1.02E-05	2.71E-06	2.87E-06	9.54E-06	1.6850E-03
469524.43	3765211.47	69821.69	0.3380	0.7081	0.1665	0.1744	0.6548	1.65E-03	9.45E-06	1.08E-05	2.55E-06	2.70E-06	9.98E-06	1.6821E-03
469049.43	3766266.11	69821.55	0.2923	0.3591	1.4529	1.5457	0.3755	1.65E-03	8.17E-06	5.48E-06	2.23E-05	2.39E-05	5.72E-06	1.7122E-03
469448.80	3765155.75	69810.13	0.3008	0.7610	0.1569	0.1644	0.6984	1.65E-03	8.41E-06	1.16E-05	2.40E-06	2.55E-06	1.06E-05	1.6819E-03
468962.80	3766098.70	69595.26	0.2795	0.5065	1.0292	1.1228	0.5394	1.64E-03	7.81E-06	7.72E-06	1.58E-05	1.74E-05	8.22E-06	1.6982E-03
468862.75	3765101.48	69518.92	0.1778	1.5370	0.1725	0.1826	1.6119	1.64E-03	4.97E-06	2.34E-05	2.64E-06	2.83E-06	2.46E-05	1.6979E-03
469129.25	3766406.15	69517.37	0.2983	0.2785	2.1382	2.2683	0.2885	1.64E-03	8.34E-06	4.25E-06	3.28E-05	3.51E-05	4.40E-06	1.7243E-03
469369.08	3765101.61	69483.25	0.2690	0.7945	0.1488	0.1558	0.7241	1.64E-03	7.52E-06	1.21E-05	2.28E-06	2.41E-06	1.10E-05	1.6740E-03
469687.89	3765352.54	69463.77	0.4661	0.6009	0.1888	0.1960	0.5647	1.64E-03	1.30E-05	9.16E-06	2.89E-06	3.03E-06	8.61E-06	1.6749E-03
468993.39	3766163.14	69335.49	0.2848	0.4448	1.1639	1.2557	0.4702	1.64E-03	7.96E-06	6.78E-06	1.78E-05	1.94E-05	7.17E-06	1.6943E-03
469794.34	3765446.36	69238.48	0.5879	0.5283	0.1961	0.2025	0.5011	1.63E-03	1.64E-05	8.05E-06	3.00E-06	3.14E-06	7.64E-06	1.6711E-03
469741.11	3765399.45	69179.71	0.5228	0.5649	0.1938	0.2006	0.5335	1.63E-03	1.46E-05	8.61E-06	2.97E-06	3.11E-06	8.13E-06	1.6689E-03
469021.41	3766214.62	69172.23	0.2839	1.2856	1.3760	1.4157	0.4157	1.63E-03	7.93E-06	6.03E-06	1.97E-05	2.13E-05	6.34E-06	1.6926E-03
469207.62	3766530.39	69118.27	0.2833	0.2362	3.7101	4.0658	0.2434	1.63E-03	7.92E-06	3.60E-06	5.68E-05	6.30E-05	3.71E-06	1.7650E-03
469435.62	3765142.23	69048.63	0.2923	0.7572	0.1543	0.1617	0.6944	1.63E-03	8.17E-06	1.15E-05	2.36E-06	2.50E-06	1.06E-05	1.6636E-03
468931.14	3766030.67	69044.92	0.2665	0.5611	0.8883	0.9776	0.6019	1.63E-03	7.45E-06	8.55E-06	1.36E-05	1.51E-05	9.17E-06	1.6822E-03
469274.71	3766610.08	68886.05	0.2709	0.2064	7.2114	8.6555	0.2116	1.62E-03	7.57E-06	3.15E-06	1.10E-04	1.34E-04	3.23E-06	1.8830E-03
469295.01	3766636.83	68724.63	0.2649	0.2026	9.9399	12.7421	0.2076	1.62E-03	7.40E-06	3.09E-06	1.52E-04	1.97E-04	3.16E-06	1.9840E-03
468836.77	3765123.11	68667.68	0.1746	1.3733	0.1778	0.1886	1.4532	1.62E-03	4.88E-06	2.09E-05	2.72E-06	2.92E-06	2.22E-05	1.6730E-03
468808.27	3765168.61	68527.60	0.1728	1.2275	0.1911	0.2030	1.3092	1.62E-03	4.83E-06	1.87E-05	2.93E-06	3.14E-06	2.00E-05	1.6657E-03
469355.90	3765088.09	68510.19	0.2617	0.7874	0.1464	0.1531	0.7174	1.62E-03	7.31E-06	1.20E-05	2.24E-06	2.37E-06	1.09E-05	1.6506E-03
469847.56	3765493.27	68415.33	0.6601	0.4904	0.1960	0.2018	0.4670	1.61E-03	1.84E-05	7.48E-06	3.00E-06	3.12E-06	7.12E-06	1.6526E-03
469422.44	3765128.71	68331.03	0.2844	0.7453	0.1521	0.1592	0.6830	1.61E-03	7.95E-06	1.14E-05	2.33E-06	2.47E-06	1.04E-05	1.6460E-03
469257.32	3765036.88	68247.30	0.2336	0.8733	0.1405	0.1467	0.7878	1.61E-03	6.53E-06	1.33E-05	2.15E-06	2.27E-06	1.20E-05	1.6458E-03
468965.97	3766116.55	68235.91	0.2773	0.4823	1.0381	1.1278	0.5124	1.61E-03	7.75E-06	7.35E-06	1.59E-05	1.75E-05	7.81E-06	1.6655E-03
468847.42	3765101.88	68154.40	0.1745	1.3905	0.1724	0.1825	1.4582	1.61E-03	4.88E-06	2.12E-05				

469759.68	3765394.24	65279.84	0.5051	0.5305	0.1885	0.1949	0.5018	1.54E-03	1.41E-05	8.09E-06	2.89E-06	3.02E-06	7.65E-06	1.5753E-03
469269.19	3765023.04	65264.35	0.2287	0.7995	0.1368	0.1428	0.7258	1.54E-03	6.39E-06	1.22E-05	2.10E-06	2.21E-06	1.11E-05	1.5731E-03
468940.65	3766084.22	65234.19	0.2617	0.4878	0.9176	0.9989	0.5195	1.54E-03	7.31E-06	7.44E-06	1.41E-05	1.55E-05	7.92E-06	1.5906E-03
468846.93	3765061.03	65207.52	0.1696	1.2185	0.1621	0.1711	1.2505	1.54E-03	4.74E-06	1.86E-05	2.48E-06	2.65E-06	1.91E-05	1.5853E-03
469297.13	3766656.93	65187.58	0.2558	0.1965	9.6017	12.3092	0.2012	1.54E-03	7.15E-06	3.00E-06	1.47E-04	1.91E-04	3.07E-06	1.8882E-03
469812.90	3765441.15	65178.16	0.5652	0.4978	0.1903	0.1962	0.4728	1.54E-03	1.58E-05	7.59E-06	2.91E-06	3.04E-06	7.21E-06	1.5737E-03
468905.81	3765998.34	65176.86	0.2472	0.5471	0.7780	0.8540	0.5872	1.54E-03	6.91E-06	8.34E-06	1.19E-05	1.32E-05	8.95E-06	1.5864E-03
469277.87	3766630.56	65093.24	0.2619	0.1985	6.9500	8.3496	0.2033	1.54E-03	7.32E-06	3.03E-06	1.06E-04	1.29E-04	3.10E-06	1.7843E-03
469369.71	3765074.63	65093.09	0.2551	0.7146	0.1428	0.1492	0.6549	1.54E-03	7.13E-06	1.09E-05	2.19E-06	2.31E-06	9.98E-06	1.5676E-03
469436.24	3765115.25	64698.84	0.2759	0.6825	0.1482	0.1550	0.6293	1.53E-03	7.71E-06	1.04E-05	2.27E-06	2.40E-06	9.59E-06	1.5582E-03
469287.50	3765026.56	64614.15	0.2313	0.7589	0.1368	0.1428	0.6917	1.52E-03	6.46E-06	1.16E-05	2.10E-06	2.21E-06	1.05E-05	1.5567E-03
468820.95	3765082.66	64535.19	0.1667	1.1281	0.1669	0.1764	1.1726	1.52E-03	4.66E-06	1.72E-05	2.56E-06	2.73E-06	1.79E-05	1.5670E-03
468908.98	3766016.19	64408.21	0.2481	0.5291	0.7922	0.8676	0.5667	1.52E-03	6.93E-06	8.07E-06	1.21E-05	1.34E-05	8.64E-06	1.5682E-03
469570.24	3765214.75	64396.60	0.3348	0.6266	0.1633	0.1705	0.5832	1.52E-03	9.36E-06	9.55E-06	2.50E-06	2.64E-06	8.89E-06	1.5516E-03
469730.39	3765361.23	64388.35	0.4642	0.5415	0.1844	0.1907	0.5109	1.52E-03	1.30E-05	8.26E-06	2.82E-06	2.95E-06	7.79E-06	1.5533E-03
468974.36	3766166.27	64230.32	0.2706	0.4197	1.0513	1.1295	0.4430	1.51E-03	7.56E-06	6.40E-06	1.61E-05	1.75E-05	6.75E-06	1.5691E-03
469515.96	3765169.38	64182.44	0.3062	0.6310	0.1566	0.1638	0.5853	1.51E-03	8.56E-06	9.62E-06	2.40E-06	2.54E-06	8.92E-06	1.5457E-03
469423.06	3765101.73	64050.09	0.2688	0.6709	0.1461	0.1528	0.6182	1.51E-03	7.51E-06	1.02E-05	2.24E-06	2.37E-06	9.42E-06	1.5423E-03
468831.60	3765061.43	64009.12	0.1665	1.1251	0.1620	0.1710	1.1580	1.51E-03	4.65E-06	1.72E-05	2.48E-06	2.65E-06	1.77E-05	1.5541E-03
469347.46	3765054.23	64003.13	0.2451	0.7086	0.1396	0.1458	0.6500	1.51E-03	6.85E-06	1.08E-05	2.14E-06	2.26E-06	9.91E-06	1.5414E-03
468943.82	3766102.07	63982.52	0.2596	0.4657	0.9255	1.0037	0.4949	1.51E-03	7.26E-06	7.10E-06	1.42E-05	1.55E-05	7.54E-06	1.5605E-03
469783.61	3765408.14	63958.93	0.5181	0.5089	0.1874	0.1935	0.4821	1.51E-03	1.45E-05	7.76E-06	2.87E-06	3.00E-06	7.35E-06	1.5438E-03
469002.38	3766217.75	63902.48	0.2693	0.3756	1.1531	1.2296	0.3943	1.51E-03	7.53E-06	5.73E-06	1.77E-05	1.90E-05	6.01E-06	1.5630E-03
469305.80	3765030.09	63817.67	0.2335	0.7274	0.1367	0.1426	0.6651	1.51E-03	6.53E-06	1.11E-05	2.09E-06	2.21E-06	1.01E-05	1.5371E-03
469030.40	3766269.24	63717.69	0.2708	0.3382	1.2739	1.3499	0.3533	1.50E-03	7.57E-06	5.16E-06	1.95E-05	2.09E-05	5.39E-06	1.5612E-03
469502.78	3765155.86	63667.70	0.2979	0.6296	0.1542	0.1613	0.5836	1.50E-03	6.33E-06	9.60E-06	2.36E-06	2.50E-06	8.90E-06	1.5332E-03
468788.31	3765117.47	63655.49	0.1634	1.0200	0.1744	0.1848	1.0700	1.50E-03	4.57E-06	1.56E-05	2.67E-06	2.86E-06	1.63E-05	1.5432E-03
469110.17	3766408.84	63630.90	0.2682	0.2686	1.8362	1.9359	0.2781	1.50E-03	7.94E-06	4.09E-06	2.81E-05	3.00E-05	4.24E-06	1.5750E-03
469058.41	3766320.72	63470.14	0.2731	0.3066	1.4213	1.4991	0.3191	1.50E-03	7.63E-06	4.67E-06	2.18E-05	2.32E-05	4.86E-06	1.5590E-03
468912.15	3766034.04	63466.73	0.2481	0.5094	0.8783	0.8445	0.5445	1.50E-03	6.93E-06	7.77E-06	1.23E-05	1.36E-05	8.30E-06	1.5457E-03
469239.33	3766597.13	63428.60	0.2640	0.2108	4.5132	5.0877	0.2163	1.50E-03	7.38E-06	3.21E-06	6.91E-05	7.88E-05	3.30E-06	1.6576E-03
469154.95	3766476.90	63405.00	0.2814	0.2435	2.3591	2.5077	0.2512	1.50E-03	7.86E-06	3.71E-06	3.61E-05	3.88E-05	3.83E-06	1.5857E-03
469409.88	3765088.21	63358.51	0.2618	0.6635	0.1439	0.1505	0.6115	1.49E-03	7.32E-06	1.01E-05	2.20E-06	2.33E-06	9.32E-06	1.5255E-03
469262.79	3765005.69	63227.56	0.2218	0.7520	0.1338	0.1395	0.6853	1.49E-03	6.20E-06	1.15E-05	2.05E-06	2.16E-06	1.04E-05	1.5234E-03
469668.66	3765292.17	63215.18	0.3921	0.5706	0.1740	0.1811	0.5355	1.49E-03	1.10E-05	8.70E-06	2.66E-06	2.80E-06	8.16E-06	1.5241E-03
469489.60	3765142.34	63123.44	0.2899	0.6292	0.1518	0.1587	0.5829	1.49E-03	8.10E-06	9.59E-06	2.32E-06	2.46E-06	8.89E-06	1.5200E-03
469836.83	3765455.05	63087.09	0.5785	0.4769	0.1884	0.1940	0.4536	1.49E-03	1.62E-05	7.27E-06	2.89E-06	3.00E-06	6.91E-06	1.5240E-03
469754.32	3765375.13	63048.74	0.4761	0.5201	0.1841	0.1903	0.4916	1.49E-03	1.33E-05	7.93E-06	2.82E-06	2.95E-06	7.49E-06	1.5214E-03
469697.72	3765319.49	63042.41	0.4174	0.5494	0.1775	0.1841	0.5171	1.49E-03	1.17E-05	8.38E-06	2.72E-06	2.85E-06	7.88E-06	1.5202E-03
469639.60	3765264.85	63037.83	0.3693	0.5816	0.1700	0.1771	0.5446	1.49E-03	1.03E-05	8.87E-06	2.60E-06	2.74E-06	8.30E-06	1.5195E-03
468977.35	3766184.47	63008.95	0.2705	0.4019	1.0591	1.1339	0.4233	1.49E-03	7.56E-06	6.13E-06	1.62E-05	1.76E-05	6.45E-06	1.5399E-03
469324.10	3765033.61	62933.59	0.2356	0.6994	0.1366	0.1425	0.6414	1.48E-03	6.58E-06	1.07E-05	2.09E-06	2.21E-06	9.78E-06	1.5155E-03
468815.78	3765062.85	62860.89	0.1636	1.0423	0.1621	0.1710	1.0754	1.48E-03	4.57E-06	1.59E-05	2.48E-06	2.65E-06	1.64E-05	1.5244E-03
469183.53	3766525.66	62718.79	0.2746	0.2302	2.8716	3.0870	0.2369	1.48E-03	7.67E-06	3.51E-06	4.40E-05	4.78E-05	3.61E-06	1.5857E-03
469807.54	3765422.04	62703.46	0.5309	0.4888	0.1861	0.1920	0.4640	1.48E-03	7.45E-06	2.85E-06	2.97E-06	3.07E-06	1.5139E-03	1.5707E-03
468946.98	3766119.92	62694.59	0.2574	0.4443	0.9315	1.0064	0.4710	1.48E-03	7.19E-06	6.77E-06	1.43E-05	1.56E-05	7.18E-06	1.5295E-03
469164.48	3766493.16	62665.97	0.2783	0.2361	2.4698	2.6317	0.2434	1.48E-03	7.78E-06	3.60E-06	3.78E-05	4.07E-05	3.71E-06	1.5715E-03
469396.70	3765074.69	62643.99	0.2551	0.6572	0.1416	0.1479	0.6058	1.48E-03	7.13E-06	1.00E-05	2.17E-06	2.29E-06	9.23E-06	1.5082E-03
469281.33	3765009.26	62614.47	0.2243	0.7158	0.1339	0.1395	0.6547	1.48E-03	6.27E-06	1.09E-05	2.05E-06	2.16E-06	9.98E-06	1.5080E-03
469476.42	3765128.82	62564.64	0.2822	0.6273	0.1494	0.1562	0.5809	1.48E-03	7.89E-06	9.56E-06	2.29E-06	2.42E-06	8.86E-06	1.5065E-03
469088.62	3766383.81	62475.42	0.2822	1.6438	0.1727	0.2890	0.4710	1.47E-03	7.89E-06	4.25E-06	2.52E-05	2.68E-05	4.40E-06	1.5419E-03
469260.72	3766624.28	62433.89	0.2589	0.1986	5.3688	6.2106	0.2036	1.47E-03	7.23E-06	3.03E-06	8.22E-05	9.62E-05	3.10E-06	1.6642E-03
469725.02	3765342.12	62422.28	0.4387	0.5314	0.1796	0.1860	0.5012	1.47E-03	1.23E-05	8.10E-06	2.75E-06	2.88E-06	7.64E-06	1.5058E-03
469599.00	3765226.09	62409.71	0.3395	0.6012	0.1630	0.1700	0.5612	1.47E-03	9.49E-06	9.17E-06	2.50E-06	2.63E-06	8.55E-06	1.5042E-03
468915.32	3766051.89	62343.99	0.2470	0.4882	0.8129	0.8853	0.5207	1.47E-03	6.90E-06	7.44E-06	1.25E-05	1.37E-05	7.94E-06	1.5187E-03
469005.37	3766235.96	62312.11	0.2660	0.3573	1.1517	1.2241	0.3744	1.47E-03	7.43E-06	5.45E-06	1.76E-05	1.90E-05	5.71E-06	1.5247E-03
469174.01	3766509.41	62286.55	0.2762	0.2312	2.6235	2.8055	0.2382	1.47E-03	7.72E-06	3.53E-06	4.02E-05	4.34E-05	3.63E-06	1.5674E-03
469552.05	3765184.54	62273.02	0.3135	0.5919	0.1577	0.1647	0.5510	1.47E-03	8.76E-06	9.02E-06	2.42E-06	2.55E-06	8.40E-06	1.4997E-03
469202.59	3766558.16	62240.94	0.2678	0.2202	3.2636	3.5490	0.2271	1.47E-03	7.48E-06	3.36E-06	5.00E-05	5.50E-05	3.46E-06	1.5871E-03
469033.39	3766287.44	62114.63	0.2678	0.3232	1.2740	1.3463	0.3372	1.46E-03	7.48E-06	4.93E-06	1.95E-05	2.08E-05	5.14E-06	1.5228E-03
469463.23	3765115.30	61995.37	0.2749	0.6239	0.1471	0.1537	0.5777	1.46E-03	6.78E-06	9.51E-06	2.25E-06	2.38E-06	8.81E-06	1.4927E-03
469193.06	3766541.91	61920.79	0.2711	0.2236	3.0256	3.2679	0.2299	1.46E-03	7.58E-06	3.41E-06	4.63E-05	5.06E-05	3.50E-06	1.5717E-03
469383.52	3765061.17	61912.51	0.2486	0.6512	0.1395	0.1455	0.6004	1.46E-03	6.95E-06	9.93E-06	2.14E-06	2.25E-06	9.15E-06	1.4905E-03
469299.88	3765012.83	61847.01	0.2264	0.6886	0.1337	0.1393	0.6317	1.46E-03	6.33E-06	1.05E-				

469268.39	3764974.52	58909.28	0.2111	0.6420	0.1281	0.1333	0.5909	1.39E-03	5.90E-06	9.79E-06	1.96E-06	2.06E-06	9.01E-06	1.4180E-03
469477.04	3765101.84	58882.28	0.2663	0.5724	0.1436	0.1499	0.5323	1.39E-03	7.44E-06	8.73E-06	2.20E-06	2.32E-06	8.11E-06	1.4174E-03
469565.21	3765170.00	58824.56	0.3012	0.5441	0.1536	0.1598	0.5082	1.39E-03	8.42E-06	8.30E-06	2.35E-06	2.47E-06	7.75E-06	1.4166E-03
469039.39	3766323.85	58798.05	0.2610	0.2957	1.2683	1.3335	0.3076	1.39E-03	7.29E-06	4.51E-06	1.94E-05	2.06E-05	4.69E-06	1.4432E-03
468924.83	3766105.44	58790.49	0.2418	0.4274	0.8316	0.8969	0.4530	1.39E-03	6.76E-06	6.52E-06	1.27E-05	1.39E-05	6.90E-06	1.4333E-03
469091.09	3766411.53	58676.68	0.2720	0.2600	1.5990	1.6775	0.2691	1.38E-03	7.60E-06	3.96E-06	2.45E-05	2.60E-05	4.10E-06	1.4499E-03
469796.82	3765383.82	58491.13	0.4715	0.4707	0.1784	0.1839	0.4463	1.38E-03	1.32E-05	7.18E-06	2.73E-06	2.85E-06	6.80E-06	1.4121E-03
469463.86	3765088.32	58371.00	0.2597	0.5687	0.1415	0.1477	0.5288	1.38E-03	7.26E-06	8.67E-06	2.17E-06	2.29E-06	8.06E-06	1.4050E-03
469331.20	3765002.73	58347.83	0.2231	0.6084	0.1305	0.1359	0.5624	1.38E-03	6.24E-06	9.27E-06	2.00E-06	2.10E-06	8.57E-06	1.4042E-03
469287.32	3764978.17	58242.80	0.2131	0.6189	0.1280	0.1332	0.5710	1.37E-03	5.96E-06	9.44E-06	1.96E-06	2.06E-06	8.70E-06	1.4017E-03
469374.05	3765027.10	58220.71	0.2332	0.5909	0.1334	0.1389	0.5475	1.37E-03	6.52E-06	9.01E-06	2.04E-06	2.15E-06	8.35E-06	1.4011E-03
468986.34	3766239.09	58189.41	0.2567	0.3437	1.0475	1.1101	0.3598	1.37E-03	7.17E-06	5.24E-06	1.60E-05	1.72E-05	5.49E-06	1.4234E-03
469767.52	3765350.81	58154.80	0.4357	0.4841	0.1751	0.1809	0.4582	1.37E-03	1.22E-05	7.38E-06	2.68E-06	2.80E-06	6.98E-06	1.4035E-03
469135.41	3766479.46	58130.79	0.2688	0.2351	1.9805	2.0881	0.2425	1.37E-03	7.51E-06	3.58E-06	3.03E-05	3.23E-05	3.70E-06	1.4484E-03
468958.33	3766187.61	57997.21	0.2508	0.3744	0.9470	1.0097	0.3938	1.37E-03	7.01E-06	5.71E-06	1.45E-05	1.56E-05	6.00E-06	1.4166E-03
469226.43	3766611.74	57898.55	0.2527	0.2023	3.6121	3.9901	0.2077	1.37E-03	7.06E-06	3.08E-06	5.53E-05	6.18E-05	3.17E-06	1.4959E-03
469014.36	3766290.58	57855.24	0.2579	0.3122	1.1504	1.2123	0.3255	1.36E-03	7.21E-06	4.76E-06	1.76E-05	1.88E-05	4.96E-06	1.4177E-03
469450.68	3765074.80	57847.91	0.2533	0.5641	0.1394	0.1454	0.5247	1.36E-03	7.08E-06	8.60E-06	2.13E-06	2.25E-06	8.00E-06	1.3923E-03
469543.58	3765142.46	57660.86	0.2851	0.5349	0.1488	0.1550	0.4996	1.36E-03	7.97E-06	8.16E-06	2.28E-06	2.40E-06	7.62E-06	1.3882E-03
468928.00	3766123.29	57634.61	0.2400	0.4090	0.8363	0.8989	0.4326	1.36E-03	6.71E-06	6.24E-06	1.28E-05	1.39E-05	6.59E-06	1.4055E-03
469144.65	3766495.21	57632.73	0.2666	0.2291	2.0662	2.1821	0.2362	1.36E-03	7.45E-06	3.49E-06	3.16E-05	3.38E-05	3.60E-06	1.4391E-03
469644.08	3765228.16	57622.98	0.3335	0.5313	0.1596	0.1659	0.4985	1.36E-03	9.32E-06	8.10E-06	2.44E-06	2.57E-06	7.60E-06	1.3890E-03
469597.86	3765187.82	57620.62	0.3097	0.5228	0.1552	0.1613	0.4895	1.36E-03	8.66E-06	7.97E-06	2.38E-06	2.50E-06	7.46E-06	1.3878E-03
469306.25	3764981.81	57483.80	0.2149	0.5991	0.1279	0.1331	0.5540	1.36E-03	6.00E-06	9.13E-06	1.96E-06	2.06E-06	8.45E-06	1.3833E-03
469273.63	3766667.66	57465.07	0.2437	0.1870	5.4324	6.3591	0.1917	1.36E-03	6.81E-06	2.85E-06	8.32E-05	9.85E-05	2.92E-06	1.5495E-03
469349.95	3765006.34	57461.73	0.2246	0.5870	0.1305	0.1359	0.5439	1.36E-03	6.28E-06	8.95E-06	2.00E-06	2.10E-06	8.29E-06	1.3828E-03
469153.88	3766510.96	57461.70	0.2657	0.2257	2.1861	2.3147	0.2325	1.36E-03	7.43E-06	3.44E-06	3.35E-05	3.58E-05	3.54E-06	1.4389E-03
469437.50	3765061.28	57300.23	0.2471	0.5611	0.1373	0.1431	0.5218	1.35E-03	6.91E-06	8.55E-06	2.10E-06	2.22E-06	7.95E-06	1.3791E-03
469820.75	3765397.72	57297.50	0.4823	0.4529	0.1772	0.1825	0.4302	1.35E-03	1.35E-05	6.90E-06	2.71E-06	2.83E-06	6.56E-06	1.3837E-03
469530.40	3765128.94	57280.37	0.2779	0.5341	0.1466	0.1528	0.4987	1.35E-03	7.77E-06	8.14E-06	2.25E-06	2.37E-06	7.60E-06	1.3790E-03
469261.68	3764957.11	57223.72	0.2051	0.6070	0.1254	0.1304	0.5605	1.35E-03	5.73E-06	9.25E-06	1.92E-06	2.02E-06	8.54E-06	1.3770E-03
469163.11	3766526.71	57194.41	0.2640	0.2217	2.3088	2.4519	0.2282	1.35E-03	7.38E-06	3.38E-06	3.54E-05	3.80E-05	3.48E-06	1.4364E-03
469705.38	3765280.34	57185.73	0.3703	0.4996	0.1662	0.1724	0.4708	1.35E-03	1.03E-05	7.62E-06	2.55E-06	2.67E-06	7.18E-06	1.3790E-03
469734.44	3765307.66	57144.17	0.3923	0.4900	0.1691	0.1752	0.4627	1.35E-03	1.10E-05	7.47E-06	2.59E-06	2.71E-06	7.05E-06	1.3784E-03
469676.32	3765253.02	57120.99	0.3502	0.5029	0.1629	0.1690	0.4731	1.35E-03	9.79E-06	7.67E-06	2.50E-06	2.62E-06	7.21E-06	1.3769E-03
469190.81	3766573.96	56984.91	0.2560	0.2111	2.7621	2.9701	0.2167	1.34E-03	7.15E-06	3.22E-06	4.23E-05	4.60E-05	3.30E-06	1.4459E-03
469517.22	3765115.42	56878.84	0.2710	0.5324	0.1445	0.1506	0.4971	1.34E-03	7.57E-06	8.12E-06	2.21E-06	2.33E-06	7.58E-06	1.3692E-03
469424.31	3765047.76	56763.37	0.2412	0.5547	0.1353	0.1410	0.5161	1.34E-03	6.74E-06	8.46E-06	2.07E-06	2.18E-06	7.87E-06	1.3660E-03
469791.45	3765364.71	56755.41	0.4458	0.4630	0.1747	0.1802	0.4390	1.34E-03	1.25E-05	7.06E-06	2.68E-06	2.79E-06	6.69E-06	1.3701E-03
469172.35	3766542.46	56736.59	0.2618	0.2168	2.4245	2.5829	0.2230	1.34E-03	7.32E-06	3.31E-06	3.71E-05	4.00E-05	3.40E-06	1.4292E-03
469762.16	3765331.70	56715.10	0.4125	0.4779	0.1712	0.1770	0.4522	1.34E-03	1.15E-05	7.29E-06	2.62E-06	2.74E-06	6.89E-06	1.3686E-03
468961.32	3766205.81	56702.39	0.2485	0.3577	0.9478	1.0073	0.3755	1.34E-03	6.94E-06	5.45E-06	1.45E-05	1.56E-05	5.72E-06	1.3855E-03
469325.18	3764985.45	56683.57	0.2165	0.5792	0.1278	0.1330	0.5368	1.34E-03	6.05E-06	8.83E-06	1.96E-06	2.06E-06	8.18E-06	1.3639E-03
469069.60	3766387.02	56682.09	0.2575	0.2617	1.3977	1.4632	0.2712	1.34E-03	7.20E-06	3.99E-06	2.14E-05	2.27E-05	4.13E-06	1.3961E-03
468989.34	3766257.30	56661.33	0.2522	0.3273	1.0426	1.1016	0.3421	1.34E-03	7.05E-06	4.99E-06	1.60E-05	1.71E-05	5.21E-06	1.3865E-03
469280.77	3764960.78	56586.60	0.2069	0.5870	0.1254	0.1303	0.5432	1.33E-03	5.78E-06	8.95E-06	1.92E-06	2.02E-06	8.28E-06	1.3614E-03
468931.16	3766141.14	56578.92	0.2387	0.3924	0.8418	0.9018	0.4143	1.33E-03	6.67E-06	5.98E-06	1.29E-05	1.40E-05	6.31E-06	1.3801E-03
469504.03	3765101.90	56456.80	0.2643	0.5303	0.1424	0.1485	0.4950	1.33E-03	7.39E-06	8.08E-06	2.18E-06	2.30E-06	7.55E-06	1.3589E-03
469017.36	3766308.78	56381.17	0.2556	0.2993	1.1487	1.2075	0.3115	1.33E-03	7.14E-06	4.56E-06	1.76E-05	1.87E-05	4.75E-06	1.3824E-03
469181.58	3766558.21	56236.91	0.2587	0.2119	2.5453	2.7214	0.2178	1.33E-03	7.23E-06	3.23E-06	3.90E-05	4.21E-05	3.32E-06	1.4212E-03
469411.13	3765034.24	56208.41	0.2355	0.5490	0.1333	0.1389	0.5109	1.33E-03	6.58E-06	8.37E-06	2.04E-06	2.15E-06	7.79E-06	1.3525E-03
469627.02	3765199.84	56176.74	0.3139	0.5079	0.1552	0.1614	0.4766	1.32E-03	8.77E-06	7.74E-06	2.38E-06	2.50E-06	7.27E-06	1.3535E-03
469200.05	3766589.71	56148.96	0.2526	0.2050	2.8741	3.1041	0.2105	1.32E-03	7.06E-06	3.13E-06	4.40E-05	4.81E-05	3.21E-06	1.4297E-03
469490.85	3765088.38	56018.60	0.2579	0.5276	0.1403	0.1463	0.4926	1.32E-03	7.21E-06	8.04E-06	2.15E-06	2.27E-06	7.51E-06	1.3483E-03
469299.85	3764964.46	55870.76	0.2086	0.5695	0.1302	0.1302	0.5280	1.32E-03	5.83E-06	8.68E-06	1.92E-06	2.02E-06	8.05E-06	1.3441E-03
469344.11	3764989.10	55840.33	0.2179	0.5601	0.1277	0.1329	0.5202	1.32E-03	6.09E-06	8.54E-06	1.96E-06	2.06E-06	7.93E-06	1.3435E-03
469579.67	3765157.62	55830.07	0.2908	0.5045	0.1499	0.1557	0.4726	1.32E-03	8.13E-06	7.69E-06	2.30E-06	2.41E-06	7.20E-06	1.3444E-03
469045.09	3766357.50	55706.43	0.2544	0.2733	1.2589	1.3183	0.2836	1.31E-03	7.11E-06	4.17E-06	1.93E-05	2.04E-05	4.32E-06	1.3690E-03
469095.45	3766437.99	55643.21	0.2635	0.2445	1.5730	1.6466	0.2527	1.31E-03	7.36E-06	3.73E-06	2.41E-05	2.55E-05	3.85E-06	1.3768E-03
469254.84	3764939.67	55615.51	0.1993	0.5749	0.1228	0.1276	0.5325	1.31E-03	5.57E-06	8.76E-06	1.88E-06	1.98E-06	8.12E-06	1.3379E-03
469387.44	3765013.56	55604.05	0.2272	0.5439	0.1305	0.1359	0.5062	1.31E-03	6.35E-06	8.29E-06	2.00E-06	2.10E-06	7.72E-06	1.3378E-03
469477.67	3765074.86	55568.19	0.2518	0.5242	0.1383	0.1441	0.4895	1.31E-03	7.04E-06	7.99E-06	2.12E-06	2.23E-06	7.46E-06	1.3373E-03
469815.39	3765378.61	55527.33	0.4557	0.4448	0.1736	0.1789	0.4224	1.31E-03	1.27E-05	6.78E-06	2.66E-06	2.77E-06	6.44E-06	1.3409E-03
468964.32	3766224.02	55348.61	0.2456	0.3413	0.9460	1.0023	0.3576	1.31E-03	6.86E-06	5.20E-06</				

469258.95	3766681.62	52766.88	0.2337	0.1811	4.0061	4.5105	0.1855	1.24E-03	6.53E-06	2.76E-06	6.14E-05	6.98E-05	2.83E-06	1.3877E-03
468970.31	3766260.43	52688.28	0.2396	0.3117	0.9401	0.9904	0.3256	1.24E-03	6.70E-06	4.75E-06	1.44E-05	1.53E-05	4.96E-06	1.2887E-03
469050.58	3766390.23	52682.55	0.2467	0.2537	1.2427	1.2967	0.2627	1.24E-03	6.89E-06	3.87E-06	1.90E-05	2.01E-05	4.00E-06	1.2963E-03
469804.66	3765340.39	52668.48	0.4092	0.4329	0.1667	0.1718	0.4109	1.24E-03	1.14E-05	6.60E-06	2.55E-06	2.66E-06	6.26E-06	1.2716E-03
469151.95	3766543.56	52632.03	0.2523	0.2121	2.0214	2.1321	0.2181	1.24E-03	7.05E-06	3.23E-06	3.10E-05	3.30E-05	3.33E-06	1.3188E-03
469376.21	3764979.15	52606.54	0.2138	0.5017	0.1249	0.1298	0.4688	1.24E-03	5.97E-06	7.65E-06	1.91E-06	2.01E-06	7.15E-06	1.2653E-03
469478.30	3765047.87	52564.89	0.2384	0.4830	0.1333	0.1387	0.4527	1.24E-03	6.66E-06	7.36E-06	2.04E-06	2.15E-06	6.90E-06	1.2648E-03
469679.66	3765214.45	52531.77	0.3155	0.4687	0.1532	0.1588	0.4418	1.24E-03	8.82E-06	7.15E-06	2.35E-06	2.46E-06	6.73E-06	1.2664E-03
468998.33	3766311.91	52388.03	0.2423	0.2868	1.0301	1.0799	0.2983	1.24E-03	7.77E-06	4.37E-06	1.58E-05	1.67E-05	4.55E-06	1.2837E-03
468942.97	3766208.94	52324.11	0.2319	0.3342	0.8486	0.8985	0.3504	1.23E-03	6.48E-06	5.09E-06	1.30E-05	1.39E-05	5.34E-06	1.2778E-03
469305.29	3764933.39	52175.21	0.1983	0.5033	0.1200	0.1246	0.4698	1.23E-03	5.54E-06	7.67E-06	1.84E-06	1.93E-06	7.16E-06	1.2546E-03
469465.11	3765034.35	52145.77	0.2330	0.4793	0.1313	0.1367	0.4494	1.23E-03	6.51E-06	7.31E-06	2.01E-06	2.12E-06	6.85E-06	1.2546E-03
469571.20	3765115.53	52098.17	0.2654	0.4614	0.1418	0.1471	0.4336	1.23E-03	7.42E-06	7.03E-06	2.17E-06	2.28E-06	6.61E-06	1.2542E-03
469713.03	3765241.20	52087.95	0.3316	0.4472	0.1561	0.1615	0.4224	1.23E-03	9.27E-06	6.82E-06	2.39E-06	2.50E-06	6.44E-06	1.2558E-03
469350.99	3764958.18	52057.67	0.2066	0.4959	0.1224	0.1272	0.4635	1.23E-03	5.77E-06	7.56E-06	1.87E-06	1.97E-06	7.06E-06	1.2519E-03
469625.48	3765160.89	51904.29	0.2865	0.4512	0.1476	0.1527	0.4248	1.22E-03	8.01E-06	6.88E-06	2.26E-06	2.36E-06	6.48E-06	1.2501E-03
469669.99	3765198.40	51878.04	0.3052	0.4566	0.1510	0.1566	0.4304	1.22E-03	8.53E-06	6.96E-06	2.31E-06	2.42E-06	6.56E-06	1.2502E-03
469169.94	3766574.24	51874.18	0.2476	0.2037	2.1993	2.3314	0.2092	1.22E-03	6.92E-06	3.11E-06	3.37E-05	3.61E-05	3.19E-06	1.3064E-03
469558.01	3765102.01	51841.20	0.2592	0.4601	0.1398	0.1451	0.4324	1.22E-03	7.24E-06	7.01E-06	2.14E-06	2.25E-06	6.59E-06	1.2478E-03
469395.29	3764982.83	51724.23	0.2147	0.4862	0.1249	0.1298	0.4549	1.22E-03	6.00E-06	7.41E-06	1.91E-06	2.01E-06	6.93E-06	1.2441E-03
469451.93	3765020.83	51713.98	0.2278	0.4757	0.1295	0.1347	0.4460	1.22E-03	6.37E-06	7.25E-06	1.98E-06	2.09E-06	6.80E-06	1.2441E-03
469544.83	3765088.49	51573.65	0.2532	0.4586	0.1380	0.1432	0.4310	1.22E-03	7.08E-06	6.99E-06	2.11E-06	2.22E-06	6.57E-06	1.2412E-03
469742.09	3765268.52	51502.92	0.3500	0.4327	0.1594	0.1642	0.4094	1.21E-03	9.78E-06	6.60E-06	2.44E-06	2.54E-06	6.24E-06	1.2422E-03
469325.33	3764937.12	51456.03	0.1995	0.4894	0.1200	0.1245	0.4575	1.21E-03	5.58E-06	7.46E-06	1.84E-06	1.93E-06	6.97E-06	1.2373E-03
468973.31	3766278.63	51411.35	0.2369	0.2987	0.9371	0.9848	0.3115	1.21E-03	6.62E-06	4.55E-06	1.44E-05	1.52E-05	4.75E-06	1.2580E-03
469771.15	3765295.84	51396.82	0.3695	0.1614	0.1663	0.1663	0.4060	1.21E-03	1.03E-05	6.53E-06	2.47E-06	2.58E-06	6.19E-06	1.2402E-03
469799.30	3765321.28	51296.41	0.3885	0.4244	0.1631	0.1682	0.4028	1.21E-03	1.09E-05	6.47E-06	2.50E-06	2.60E-06	6.14E-06	1.2383E-03
469531.65	3765074.97	51273.67	0.2474	0.4569	0.1360	0.1413	0.4295	1.21E-03	6.91E-06	6.97E-06	2.08E-06	2.19E-06	6.55E-06	1.2393E-03
468945.29	3766227.15	51267.38	0.2306	0.3211	0.8501	0.8977	0.3361	1.21E-03	6.45E-06	4.90E-06	1.30E-05	1.39E-05	5.12E-06	1.2524E-03
469438.75	3765007.31	51260.39	0.2227	0.4730	0.1327	0.1327	0.4436	1.21E-03	6.23E-06	7.21E-06	1.95E-06	2.05E-06	6.76E-06	1.2331E-03
469370.22	3764961.88	51232.68	0.2075	0.4815	0.1224	0.1271	0.4509	1.21E-03	5.80E-06	7.34E-06	1.87E-06	1.97E-06	6.87E-06	1.2321E-03
469187.93	3766604.93	51137.78	0.2420	0.1961	2.4008	2.5619	0.2012	1.21E-03	6.76E-06	2.99E-06	3.68E-05	3.97E-05	3.07E-06	1.2953E-03
469220.19	3766648.11	51076.07	0.2355	0.1856	2.8705	3.1138	0.1901	1.20E-03	6.58E-06	2.83E-06	4.40E-05	4.82E-05	2.90E-06	1.3090E-03
469660.32	3765182.35	51030.87	0.2957	0.4395	0.1489	0.1540	0.4146	1.20E-03	6.26E-06	6.70E-06	2.28E-06	2.38E-06	6.32E-06	1.2294E-03
469076.50	3766441.55	51017.15	0.2438	0.2325	1.3481	1.4041	0.2402	1.20E-03	6.81E-06	3.54E-06	2.06E-05	2.17E-05	3.66E-06	1.2596E-03
469001.33	3766330.12	51006.10	0.2391	0.2752	1.0254	1.0725	0.2859	1.20E-03	6.68E-06	4.20E-06	1.57E-05	1.66E-05	4.36E-06	1.2504E-03
469246.23	3764889.65	50970.39	0.1845	0.4805	0.1157	0.1199	0.4495	1.20E-03	5.16E-06	7.32E-06	1.77E-06	1.86E-06	6.85E-06	1.2250E-03
469518.47	3765061.45	50935.45	0.2418	0.4551	0.1341	0.1393	0.4277	1.20E-03	6.76E-06	6.94E-06	2.05E-06	2.16E-06	6.52E-06	1.2256E-03
469414.38	3764986.50	50837.26	0.2154	0.4702	0.1249	0.1298	0.4408	1.20E-03	6.02E-06	7.17E-06	1.91E-06	2.01E-06	6.72E-06	1.2272E-03
469344.68	3764940.84	50704.88	0.2006	0.4755	0.1199	0.1245	0.4453	1.20E-03	5.61E-06	7.25E-06	1.84E-06	1.93E-06	6.79E-06	1.2192E-03
469028.82	3766377.17	50681.82	0.2425	0.2563	1.1278	1.1758	0.2656	1.20E-03	6.78E-06	3.91E-06	1.73E-05	1.82E-05	4.05E-06	1.2455E-03
469241.60	3766675.27	50638.96	0.2312	0.1785	3.2288	3.5476	0.1828	1.19E-03	6.46E-06	2.72E-06	4.95E-05	5.49E-05	2.79E-06	1.3106E-03
469505.29	3765047.93	50581.11	0.2364	0.4529	0.1322	0.1375	0.4257	1.19E-03	6.61E-06	6.90E-06	2.02E-06	2.13E-06	6.49E-06	1.2170E-03
469607.28	3765130.69	50562.29	0.2699	0.4386	0.1427	0.1477	0.4133	1.19E-03	7.54E-06	6.69E-06	2.19E-06	2.29E-06	6.30E-06	1.2174E-03
469264.91	3764893.25	50423.20	0.1858	0.4716	0.1156	0.1198	0.4416	1.19E-03	5.19E-06	7.19E-06	1.85E-06	1.95E-06	6.73E-06	1.2119E-03
469389.45	3764965.58	50391.43	0.2084	0.4673	0.1223	0.1270	0.4383	1.19E-03	5.82E-06	7.12E-06	1.87E-06	1.97E-06	6.68E-06	1.2119E-03
469650.66	3765166.31	50235.22	0.2863	0.4298	0.1468	0.1517	0.4055	1.18E-03	8.00E-06	6.55E-06	2.25E-06	2.35E-06	6.18E-06	1.2100E-03
469492.10	3765034.41	50215.35	0.2312	0.4501	0.1303	0.1355	0.4232	1.18E-03	6.46E-06	6.86E-06	2.00E-06	2.10E-06	6.45E-06	1.2081E-03
468976.30	3766296.84	50206.33	0.2346	0.2871	0.9355	0.9807	0.2990	1.18E-03	6.56E-06	4.38E-06	1.43E-05	1.52E-05	4.56E-06	1.2290E-03
468948.28	3766245.56	49977.74	0.2271	0.3066	0.8451	0.8899	0.3204	1.18E-03	6.35E-06	4.68E-06	1.29E-05	1.38E-05	4.88E-06	1.2213E-03
469364.04	3764944.57	49923.20	0.2016	0.4624	0.1199	0.1244	0.4337	1.18E-03	5.63E-06	7.05E-06	1.84E-06	1.93E-06	6.61E-06	1.2004E-03
469283.60	3764896.84	49848.98	0.1871	0.4615	0.1155	0.1197	0.4327	1.18E-03	5.23E-06	7.04E-06	1.77E-06	1.85E-06	6.60E-06	1.1981E-03
469478.92	3765020.89	49838.20	0.2262	0.4471	0.1286	0.1336	0.4206	1.18E-03	6.32E-06	6.82E-06	1.97E-06	2.07E-06	6.41E-06	1.1989E-03
469689.48	3765194.38	49792.09	0.2990	0.4283	0.1485	0.1538	0.4047	1.17E-03	8.36E-06	6.53E-06	2.27E-06	2.38E-06	6.17E-06	1.2000E-03
469731.39	3765235.28	49788.04	0.3227	0.4223	0.1529	0.1579	0.3997	1.17E-03	9.02E-06	6.44E-06	2.34E-06	2.45E-06	6.09E-06	1.2005E-03
469004.32	3766347.85	49683.43	0.2362	0.2648	1.0207	1.0654	0.2748	1.17E-03	6.60E-06	4.04E-06	1.56E-05	1.65E-05	4.19E-06	1.2187E-03
469585.01	3765102.07	49664.30	0.2562	0.4306	0.1385	0.1434	0.4059	1.17E-03	7.16E-06	6.57E-06	2.12E-06	2.22E-06	6.19E-06	1.1955E-03
469640.99	3765150.26	49570.28	0.2773	0.4233	0.1443	0.1491	0.3995	1.17E-03	7.75E-06	6.45E-06	2.21E-06	2.31E-06	6.09E-06	1.1938E-03
469408.68	3764969.28	49538.67	0.2091	0.4535	0.1223	0.1269	0.4257	1.17E-03	5.84E-06	6.91E-06	1.87E-06	1.97E-06	6.49E-06	1.1914E-03
469098.22	3766487.79	49537.18	0.2456	0.2184	1.4602	1.5209	0.2252	1.17E-03	6.86E-06	3.33E-06	2.24E-05	2.35E-05	3.43E-06	1.2278E-03
469053.63	3766421.80	49514.69	0.2386	0.2365	1.2093	1.2576	0.2446	1.17E-03	6.67E-06	3.61E-06	1.85E-05	1.95E-05	3.73E-06	1.2197E-03
469465.74	3765007.37	49450.53	0.2213	0.4438	0.1268	0.1317	0.4176	1.17E-03	6.18E-06	6.77E-06	1.94E-06	2.04E-06	6.37E-06	1.1895E-03
469571.82	3765088.55	49443.14	0.2504	0.4296	0.1367	0.1416	0.4049	1.17E-03	7.00E-06	6.55E-06	2.09E-06	2.19E-06	6.17E-06	1.1900E-03
469202.38	3766641.59	49291.40	0.2326	0.1863	2.4621	2.6351	0.1909	1.16E-03	6.50E-06	2.84E-06</				

469479.55	3764993.91	47346.32	0.2149	0.4158	0.1241	0.1288	0.3924	1.12E-03	6.01E-06	6.34E-06	1.90E-06	1.99E-06	5.98E-06	1.1388E-03
469009.81	3766380.38	47267.57	0.2309	0.2472	0.1099	1.0502	0.2560	1.11E-03	6.45E-06	3.77E-06	1.55E-05	1.63E-05	3.90E-06	1.1606E-03
469585.63	3765075.08	47236.40	0.2420	0.1336	0.4024	0.1382	0.3803	1.11E-03	6.76E-06	6.13E-06	2.05E-06	2.14E-06	5.80E-06	1.1369E-03
469358.33	3764911.23	47234.55	0.1908	0.4221	0.1152	0.1194	0.3975	1.11E-03	5.33E-06	6.44E-06	1.77E-06	1.85E-06	6.06E-06	1.1354E-03
469206.90	3766662.57	47221.22	0.2261	0.1789	2.3412	2.4976	0.1832	1.11E-03	6.32E-06	2.73E-06	3.59E-05	3.87E-05	2.79E-06	1.2000E-03
469653.10	3765133.97	47192.76	0.2656	0.3958	0.1404	0.1449	0.3745	1.11E-03	7.42E-06	6.03E-06	2.15E-06	2.24E-06	5.71E-06	1.1365E-03
469227.67	3766689.50	47089.12	0.2222	0.1741	2.5989	2.7940	0.1781	1.11E-03	6.21E-06	2.65E-06	3.98E-05	4.33E-05	2.72E-06	1.2052E-03
469572.45	3765061.56	47038.38	0.2368	0.4015	0.1319	0.1365	0.3795	1.11E-03	6.62E-06	6.12E-06	2.02E-06	2.11E-06	5.78E-06	1.1320E-03
469778.80	3765256.69	46996.70	0.3306	0.3858	0.1525	0.1567	0.3663	1.11E-03	9.24E-06	5.88E-06	2.34E-06	2.43E-06	5.58E-06	1.1338E-03
469466.37	3764980.39	46991.96	0.2105	0.4125	0.1224	0.1270	0.3892	1.11E-03	5.88E-06	6.29E-06	1.87E-06	1.97E-06	5.93E-06	1.1302E-03
469289.33	3764865.71	46843.34	0.1784	0.4122	0.1111	0.1150	0.3886	1.10E-03	4.99E-06	6.28E-06	1.70E-06	1.78E-06	5.92E-06	1.1254E-03
469697.23	3765170.84	46837.09	0.2819	0.3901	0.1437	0.1482	0.3696	1.10E-03	7.88E-06	5.95E-06	2.20E-06	2.29E-06	5.63E-06	1.1285E-03
469559.27	3765048.04	46828.78	0.2317	0.4003	0.1301	0.1347	0.3784	1.10E-03	6.48E-06	6.10E-06	1.99E-06	2.09E-06	5.77E-06	1.1268E-03
469333.49	3764890.33	46791.86	0.1851	0.4112	0.1133	0.1173	0.3877	1.10E-03	5.17E-06	6.27E-06	1.73E-06	1.82E-06	5.91E-06	1.1244E-03
469441.46	3764959.47	46689.99	0.2041	0.4109	0.1200	0.1245	0.3877	1.10E-03	5.70E-06	6.26E-06	1.84E-06	1.93E-06	5.91E-06	1.1227E-03
469546.09	3765034.52	46587.99	0.2268	0.3988	0.1284	0.1330	0.3771	1.10E-03	6.34E-06	6.08E-06	1.97E-06	2.06E-06	5.75E-06	1.1209E-03
469377.01	3764914.82	46520.95	0.1915	0.4130	0.1151	0.1193	0.3894	1.10E-03	5.35E-06	6.30E-06	1.76E-06	1.85E-06	5.94E-06	1.1183E-03
468985.30	3766351.06	46486.60	0.2261	0.2554	0.9223	0.9605	0.2649	1.10E-03	6.32E-06	3.89E-06	1.41E-05	1.49E-05	4.04E-06	1.1396E-03
469034.59	3766424.78	46478.76	0.2315	0.2312	1.0889	1.1295	0.2389	1.10E-03	6.47E-06	3.52E-06	1.67E-05	1.75E-05	3.64E-06	1.1439E-03
468957.27	3766299.97	46382.36	0.2181	0.8308	0.8685	0.2810	0.3582	1.09E-03	6.10E-06	4.12E-06	1.34E-05	1.42E-05	4.28E-06	1.1345E-03
469532.90	3765021.00	46307.27	0.2221	0.3973	0.1266	0.1313	0.3756	1.09E-03	6.21E-06	6.06E-06	1.94E-06	2.03E-06	5.73E-06	1.1140E-03
469735.30	3765197.65	46280.54	0.2931	0.3900	0.1449	0.1497	0.3699	1.09E-03	8.19E-06	5.95E-06	2.22E-06	2.32E-06	5.64E-06	1.1158E-03
469687.63	3765154.90	46262.67	0.2733	0.3837	0.1418	0.1460	0.3636	1.09E-03	7.64E-06	5.85E-06	2.17E-06	2.26E-06	5.54E-06	1.1145E-03
469308.26	3764869.35	46244.12	0.1793	0.4052	0.1110	0.1149	0.3823	1.09E-03	5.01E-06	6.18E-06	1.70E-06	1.78E-06	5.83E-06	1.1111E-03
469352.30	3764893.95	46087.49	0.1857	0.4058	0.1130	0.1170	0.3828	1.09E-03	5.19E-06	6.19E-06	1.73E-06	1.81E-06	5.84E-06	1.1076E-03
469634.90	3765103.76	46076.93	0.2511	0.3848	0.1361	0.1405	0.3645	1.09E-03	7.02E-06	5.87E-06	2.08E-06	2.18E-06	5.56E-06	1.1093E-03
469519.72	3765007.48	46010.92	0.2175	0.3955	0.1249	0.1296	0.3740	1.09E-03	6.08E-06	6.03E-06	1.91E-06	2.01E-06	5.70E-06	1.1068E-03
469078.77	3766490.50	45958.98	0.2322	0.2104	1.2633	1.3094	0.2169	1.08E-03	6.49E-06	3.21E-06	1.93E-05	2.03E-05	3.31E-06	1.1365E-03
469097.45	3765223.37	45896.78	0.2354	0.2056	1.3794	1.4319	0.2117	1.08E-03	6.58E-06	3.13E-06	2.11E-05	2.22E-05	3.23E-06	1.1386E-03
469460.82	3764963.20	45879.67	0.2044	0.3987	0.1200	0.1245	0.3768	1.08E-03	5.71E-06	6.08E-06	1.84E-06	1.93E-06	5.74E-06	1.1033E-03
469088.11	3765606.43	45837.46	0.2346	0.2071	1.3136	1.3622	0.2134	1.08E-03	6.55E-06	3.16E-06	2.01E-05	2.11E-05	3.25E-06	1.1352E-03
469395.69	3764918.42	45814.77	0.1920	0.4032	0.1151	0.1193	0.3806	1.08E-03	5.37E-06	6.15E-06	1.76E-06	1.85E-06	5.80E-06	1.1014E-03
469189.55	3766565.22	45756.46	0.2235	0.1799	2.0616	2.1780	0.1843	1.08E-03	6.25E-06	2.74E-06	3.16E-05	3.37E-05	2.81E-06	1.1562E-03
469678.02	3765138.96	45725.75	0.2650	0.3783	0.1397	0.1438	0.3586	1.08E-03	7.41E-06	5.77E-06	2.14E-06	2.23E-06	5.47E-06	1.1014E-03
469506.54	3764993.96	45703.51	0.2130	0.3933	0.1232	0.1278	0.3720	1.08E-03	5.95E-06	6.00E-06	1.89E-06	1.98E-06	5.67E-06	1.0993E-03
469106.80	3766538.31	45677.99	0.2342	0.2021	1.4299	1.4854	0.2079	1.08E-03	6.55E-06	3.08E-06	2.19E-05	2.30E-05	3.17E-06	1.1349E-03
469327.19	3764872.99	45664.51	0.1802	0.3954	0.1111	0.1150	0.3734	1.08E-03	5.04E-06	6.03E-06	1.70E-06	1.78E-06	5.69E-06	1.0972E-03
469116.14	3766554.25	45553.82	0.2336	0.1996	1.4902	1.5498	0.2052	1.07E-03	6.53E-06	3.04E-06	2.28E-05	2.40E-05	3.13E-06	1.1338E-03
469768.10	3765223.46	45519.83	0.3061	0.3764	0.1466	0.1510	0.3575	1.07E-03	8.55E-06	5.74E-06	2.25E-06	2.34E-06	5.45E-06	1.0978E-03
469125.48	3766570.19	45442.06	0.2326	0.1973	1.5547	1.6192	0.2027	1.07E-03	6.50E-06	3.01E-06	2.38E-05	2.51E-05	3.09E-06	1.1332E-03
469493.36	3764980.44	45388.89	0.2087	0.3906	0.1216	0.1261	0.3696	1.07E-03	8.83E-06	5.96E-06	1.86E-06	1.95E-06	5.63E-06	1.0917E-03
469371.11	3764897.57	45387.20	0.1862	0.3985	0.1128	0.1169	0.3763	1.07E-03	5.20E-06	6.08E-06	1.73E-06	1.81E-06	5.74E-06	1.0909E-03
469612.62	3765075.14	45371.71	0.2391	0.3789	0.1324	0.1366	0.3590	1.07E-03	6.68E-06	5.78E-06	2.03E-06	2.12E-06	5.47E-06	1.0921E-03
469134.83	3766586.12	45229.14	0.2309	0.1942	1.6136	1.6823	0.1994	1.07E-03	6.45E-06	2.96E-06	2.47E-05	2.60E-05	3.04E-06	1.1299E-03
469599.44	3765061.62	45210.77	0.2340	0.3783	0.1307	0.1350	0.3585	1.07E-03	6.54E-06	5.77E-06	2.00E-06	2.09E-06	5.46E-06	1.0881E-03
469668.42	3765123.02	45181.31	0.2572	0.3726	0.1376	0.1416	0.3534	1.07E-03	7.19E-06	5.68E-06	2.11E-06	2.19E-06	5.39E-06	1.0881E-03
469012.47	3766405.90	45113.38	0.2247	0.3978	0.9878	1.0243	0.2416	1.06E-03	6.28E-06	3.56E-06	1.51E-05	1.59E-05	3.68E-06	1.1084E-03
469414.38	3764922.02	45106.78	0.1925	0.3933	0.1151	0.1193	0.3717	1.06E-03	5.38E-06	6.00E-06	1.76E-06	1.85E-06	5.67E-06	1.0844E-03
469480.18	3764966.92	45068.97	0.2046	0.3875	0.1199	0.1244	0.3667	1.06E-03	5.72E-06	5.91E-06	1.84E-06	1.93E-06	5.59E-06	1.0838E-03
469586.26	3765048.10	45038.72	0.2291	0.3776	0.1290	0.1333	0.3578	1.06E-03	6.40E-06	5.76E-06	1.98E-06	2.06E-06	5.45E-06	1.0838E-03
469717.10	3765167.45	45033.62	0.2765	0.3700	0.1416	0.1456	0.3512	1.06E-03	7.73E-06	5.64E-06	2.17E-06	2.25E-06	5.35E-06	1.0852E-03
469346.12	3764876.64	45019.15	0.1809	0.3886	0.1109	0.1148	0.3673	1.06E-03	5.05E-06	5.92E-06	1.70E-06	1.78E-06	5.60E-06	1.0818E-03
469210.71	3766683.29	44986.32	0.2198	0.1725	2.2086	2.3447	0.1765	1.06E-03	6.14E-06	2.63E-06	3.38E-05	3.63E-05	2.69E-06	1.1425E-03
469144.17	3766602.06	44982.83	0.2285	0.1909	1.6712	1.7446	0.1959	1.06E-03	6.39E-06	2.91E-06	2.56E-05	2.70E-05	2.99E-06	1.1257E-03
468960.27	3766318.18	44960.32	0.2126	0.2574	0.8175	0.8525	0.2674	1.06E-03	5.94E-06	3.92E-06	1.25E-05	1.32E-05	4.08E-06	1.1000E-03
469573.08	3765034.58	44844.22	0.2243	0.3764	0.1273	0.1317	0.3567	1.06E-03	6.27E-06	5.74E-06	1.95E-06	2.04E-06	5.44E-06	1.0790E-03
469389.92	3764901.19	44708.42	0.1867	0.3897	0.1128	0.1168	0.3684	1.05E-03	5.22E-06	5.94E-06	1.73E-06	1.81E-06	5.62E-06	1.0747E-03
469038.58	3766448.65	44693.02	0.2271	0.2207	1.0754	1.1131	0.2279	1.05E-03	6.35E-06	3.37E-06	1.65E-05	1.72E-05	3.47E-06	1.1009E-03
469559.89	3765021.06	44650.98	0.2197	0.3753	0.1256	0.1300	0.3558	1.05E-03	6.14E-06	5.72E-06	1.92E-06	2.01E-06	5.42E-06	1.0742E-03
469658.82	3765107.08	44646.19	0.2498	0.3673	0.1354	0.1394	0.3485	1.05E-03	6.98E-06	5.60E-06	2.07E-06	2.16E-06	5.31E-06	1.0750E-03
469153.51	3766618.00	44584.18	0.2260	0.1868	1.7162	1.7937	0.1915	1.05E-03	6.31E-06	2.85E-06	2.63E-05	2.78E-05	2.92E-06	1.1176E-03
469433.06	3764925.61	44405.74	0.1928	0.3822	0.1152	0.1193	0.3617	1.05E-03	5.39E-06	5.83E-06	1.76E-06	1.85E-06	5.51E-06	1.0676E-03
469753.20	3765190.99	44398.62	0.2854	0.3705	0.1420	0.1466	0.3521	1.05E-03	7.98E-06	5.65E-06	2.17E-06	2.27E-06	5.37E-06	1.0705E-03
469546.71	3765007.54	44398.17	0.2153	0.3741	0.1240	0.1284	0.3545	1.05E-03	6.02E-06	5.70E-06</				

469705.44	3765111.70	41862.91	0.2462	0.3356	0.1338	0.1370	0.3195	9.87E-04	6.88E-06	5.12E-06	2.05E-06	2.12E-06	4.87E-06	1.0083E-03
469019.63	3766452.21	41822.92	0.2162	0.2134	0.9597	0.9907	0.2201	9.86E-04	6.04E-06	3.25E-06	1.47E-05	1.53E-05	3.36E-06	1.0290E-03
469440.77	3764894.85	41768.31	0.1829	0.3475	0.1111	0.1149	0.3302	9.85E-04	5.11E-06	5.30E-06	1.70E-06	1.78E-06	5.03E-06	1.0040E-03
469640.24	3765048.21	41699.23	0.2235	0.3370	0.1267	0.1305	0.3209	9.83E-04	6.25E-06	5.14E-06	1.94E-06	2.02E-06	4.89E-06	1.0036E-03
469507.79	3764940.00	41598.30	0.1933	0.3454	0.1153	0.1193	0.3284	9.81E-04	5.40E-06	5.27E-06	1.77E-06	1.85E-06	5.01E-06	1.0038E-03
469627.06	3765034.69	41577.34	0.2191	0.3367	0.1252	0.1289	0.3205	9.81E-04	6.12E-06	5.13E-06	1.92E-06	2.00E-06	4.89E-06	1.0006E-03
469141.58	3766633.53	41572.53	0.2172	0.1797	1.4932	1.5493	0.1842	9.80E-04	6.07E-06	2.74E-06	2.29E-05	2.40E-05	2.81E-06	1.0389E-03
469613.88	3765021.17	41448.38	0.2147	0.3363	0.1236	0.1274	0.3202	9.77E-04	6.00E-06	5.13E-06	1.89E-06	1.97E-06	4.88E-06	9.9736E-04
469695.89	3765095.84	41430.43	0.2394	0.3313	0.1319	0.1350	0.3155	9.77E-04	6.69E-06	5.05E-06	2.02E-06	2.09E-06	4.81E-06	9.9772E-04
469483.98	3764919.29	41357.70	0.1880	0.3431	0.1131	0.1171	0.3262	9.75E-04	5.25E-06	5.23E-06	1.73E-06	1.81E-06	4.97E-06	9.9435E-04
469600.69	3765007.65	41308.40	0.2105	0.3357	0.1221	0.1259	0.3196	9.74E-04	5.88E-06	5.12E-06	1.87E-06	1.95E-06	4.87E-06	9.9388E-04
469150.71	3766649.10	41194.08	0.2148	0.1759	1.5193	1.5770	0.1802	9.71E-04	6.00E-06	2.68E-06	2.33E-05	2.44E-05	2.75E-06	1.0306E-03
468971.77	3766386.80	41182.25	0.2070	0.2273	0.8100	0.8386	0.2351	9.71E-04	5.78E-06	3.47E-06	1.24E-05	1.30E-05	3.58E-06	1.0094E-03
469587.51	3764994.13	41163.73	0.2064	0.3350	0.1205	0.1244	0.3189	9.71E-04	5.77E-06	5.11E-06	1.85E-06	1.93E-06	4.86E-06	9.9028E-04
469459.69	3764898.50	41132.41	0.1831	0.3384	0.1112	0.1151	0.3219	9.70E-04	5.12E-06	5.16E-06	1.70E-06	1.78E-06	4.91E-06	9.8870E-04
469686.33	3765079.98	40996.18	0.2328	0.3270	0.1298	0.1330	0.3116	9.67E-04	6.51E-06	4.98E-06	1.99E-06	2.06E-06	4.75E-06	9.8711E-04
469574.33	3764980.61	40967.00	0.2025	0.3338	0.1190	0.1229	0.3178	9.66E-04	5.66E-06	5.09E-06	1.82E-06	1.90E-06	4.84E-06	9.8545E-04
468996.52	3766430.74	40898.92	0.2113	0.2171	0.8794	0.9080	0.2242	9.65E-04	5.90E-06	3.31E-06	1.35E-05	1.41E-05	3.42E-06	1.0047E-03
469183.28	3766692.58	40843.04	0.2096	0.1668	1.6640	1.7321	0.1707	9.63E-04	5.86E-06	2.54E-06	2.55E-05	2.68E-05	2.60E-06	1.0265E-03
469561.15	3764967.09	40750.82	0.1987	0.3323	0.1175	0.1215	0.3164	9.61E-04	5.55E-06	5.07E-06	1.80E-06	1.88E-06	4.82E-06	9.8016E-04
469031.81	3766482.17	40629.71	0.2122	0.2028	0.9727	1.0020	0.2090	9.58E-04	5.93E-06	3.09E-06	1.49E-05	1.55E-05	3.19E-06	1.0008E-03
469676.78	3765064.13	40564.46	0.2266	0.3229	0.1278	0.1309	0.3078	9.57E-04	6.33E-06	4.92E-06	1.96E-06	2.03E-06	4.69E-06	9.7657E-04
469547.97	3764953.57	40519.81	0.1950	0.3308	0.1160	0.1200	0.3151	9.56E-04	5.45E-06	5.04E-06	1.78E-06	1.86E-06	4.80E-06	9.7452E-04
469051.09	3766515.06	40346.47	0.2177	0.1960	1.0352	1.0657	0.2018	9.51E-04	6.08E-06	2.99E-06	1.59E-05	1.65E-05	3.08E-06	9.9600E-04
469041.45	3766498.61	40336.62	0.2112	0.1980	0.9952	1.0246	0.2040	9.51E-04	5.90E-06	3.02E-06	1.52E-05	1.59E-05	3.11E-06	9.9440E-04
469534.78	3764940.05	40282.16	0.1914	0.3289	0.1146	0.1185	0.3133	9.50E-04	5.35E-06	5.01E-06	1.76E-06	1.83E-06	4.78E-06	9.6871E-04
469060.73	3766531.50	40241.37	0.2176	0.1932	1.0704	1.1019	0.1988	9.49E-04	6.08E-06	2.95E-06	1.64E-05	1.71E-05	3.03E-06	9.9454E-04
469667.23	3765048.27	40135.56	0.2207	0.3190	0.1255	0.1290	0.3042	9.47E-04	6.17E-06	4.86E-06	1.92E-06	2.00E-06	4.64E-06	9.6611E-04
469070.37	3766547.94	40117.50	0.2171	0.1905	1.1059	1.1385	0.1959	9.46E-04	6.07E-06	2.90E-06	1.69E-05	1.76E-05	2.99E-06	9.9262E-04
469654.05	3765034.75	40042.89	0.2164	0.3187	0.1241	0.1276	0.3040	9.44E-04	6.05E-06	4.86E-06	1.90E-06	1.98E-06	4.63E-06	9.7657E-04
469521.60	3764926.53	40023.03	0.1878	0.3281	0.1130	0.1168	0.3125	9.44E-04	5.25E-06	5.00E-06	1.73E-06	1.81E-06	4.76E-06	9.6242E-04
469080.01	3766564.39	39983.40	0.2167	0.1878	1.1420	1.1760	0.1930	9.43E-04	6.06E-06	2.86E-06	1.75E-05	1.82E-05	2.94E-06	9.9050E-04
469640.87	3765021.23	39943.31	0.2122	0.3186	0.1226	0.1262	0.3039	9.42E-04	5.93E-06	4.86E-06	1.88E-06	1.95E-06	4.63E-06	9.6124E-04
469497.55	3764905.78	39849.42	0.1831	0.3228	0.1112	0.1150	0.3076	9.40E-04	5.12E-06	4.92E-06	1.70E-06	1.78E-06	4.69E-06	9.5799E-04
469089.64	3766580.83	39844.26	0.2160	0.1854	1.1791	1.2146	0.1904	9.40E-04	6.04E-06	2.83E-06	1.81E-05	1.88E-05	2.90E-06	9.8829E-04
469627.68	3765007.71	39833.15	0.2081	0.3184	0.1211	0.1247	0.3038	9.39E-04	5.81E-06	4.85E-06	1.85E-06	1.93E-06	4.63E-06	9.5848E-04
469099.28	3766597.27	39787.19	0.2154	0.1839	1.2237	1.2614	0.1887	9.38E-04	6.02E-06	2.80E-06	1.87E-05	1.95E-05	2.88E-06	9.8829E-04
469614.50	3764994.19	39714.00	0.2041	0.3180	0.1196	0.1232	0.3034	9.37E-04	5.70E-06	4.85E-06	1.83E-06	1.91E-06	4.62E-06	9.5550E-04
468974.07	3766409.56	39675.88	0.2031	0.2174	0.7963	0.8224	0.2246	9.36E-04	5.68E-06	3.31E-06	1.22E-05	1.27E-05	3.24E-06	9.7303E-04
469165.38	3766686.03	39583.62	0.2072	0.1671	1.4924	1.5448	0.1710	9.34E-04	5.79E-06	2.55E-06	2.29E-05	2.39E-05	2.61E-06	9.9123E-04
469601.32	3764980.67	39574.23	0.2003	0.3172	0.1181	0.1218	0.3026	9.33E-04	5.60E-06	4.84E-06	1.81E-06	1.89E-06	4.61E-06	9.5203E-04
469108.92	3766613.71	39523.71	0.2133	0.1804	1.2525	1.2912	0.1850	9.32E-04	5.96E-06	2.75E-06	1.92E-05	2.00E-05	2.82E-06	9.8281E-04
469187.61	3766713.49	39514.38	0.2042	0.1620	1.5803	1.6365	0.1656	9.32E-04	5.71E-06	2.47E-06	2.42E-05	2.53E-05	2.52E-06	9.9212E-04
469588.14	3764967.15	39419.51	0.1966	0.3161	0.1167	0.1204	0.3016	9.30E-04	5.49E-06	4.82E-06	1.79E-06	1.86E-06	4.60E-06	9.4820E-04
469000.68	3766455.76	39302.90	0.2062	0.2068	0.8637	0.8895	0.2132	9.27E-04	5.76E-06	3.15E-06	1.32E-05	1.38E-05	3.25E-06	9.6606E-04
469574.96	3764953.63	39225.99	0.1929	0.3151	0.1152	0.1190	0.3006	9.25E-04	5.39E-06	4.80E-06	1.76E-06	1.84E-06	4.58E-06	9.4346E-04
469118.56	3766630.16	39122.73	0.2109	0.1759	1.2689	1.3081	0.1804	9.23E-04	5.90E-06	2.68E-06	1.94E-05	2.03E-05	2.75E-06	9.7366E-04
469561.77	3764940.11	39018.93	0.1895	0.3136	0.1138	0.1176	0.2992	9.20E-04	5.29E-06	4.78E-06	1.74E-06	1.82E-06	4.56E-06	9.3839E-04
469128.20	3766646.60	38814.43	0.2088	0.1724	1.2919	1.3318	0.1767	9.15E-04	5.84E-06	2.63E-06	1.98E-05	2.06E-05	2.69E-06	9.6694E-04
469548.59	3764926.59	38808.14	0.1861	0.3107	0.1125	0.1162	0.2965	9.15E-04	5.20E-06	4.74E-06	1.72E-06	1.80E-06	4.52E-06	9.3320E-04
469137.84	3766663.04	38612.64	0.2070	0.1699	1.3233	1.3639	0.1740	9.11E-04	5.78E-06	2.59E-06	2.03E-05	2.11E-05	2.65E-06	9.6303E-04
469535.41	3764913.07	38574.50	0.1828	0.3100	0.1110	0.1147	0.2960	9.10E-04	5.11E-06	4.73E-06	1.70E-06	1.78E-06	4.51E-06	9.2753E-04
469170.11	3766707.09	38274.38	0.2020	0.1616	1.4621	1.4621	0.1653	9.03E-04	5.64E-06	2.46E-06	2.17E-05	2.26E-05	2.52E-06	9.5763E-04
468977.48	3766433.72	38270.53	0.1998	0.2082	0.7858	0.8096	0.2148	9.03E-04	5.58E-06	3.17E-06	1.20E-05	1.25E-05	3.27E-06	9.3915E-04
469012.63	3766485.35	38172.91	0.2018	0.1964	0.8700	0.8941	0.2023	9.00E-04	5.64E-06	2.99E-06	1.33E-05	1.38E-05	3.08E-06	9.3913E-04
469031.48	3766517.50	38014.42	0.2071	0.1909	0.9246	0.9492	0.1965	8.97E-04	5.79E-06	2.91E-06	1.42E-05	1.47E-05	3.00E-06	9.3705E-04
469022.06	3766501.43	37955.54	0.2016	0.1924	0.8898	0.9137	0.1981	8.95E-04	5.63E-06	2.93E-06	1.36E-05	1.41E-05	3.02E-06	9.3447E-04
469040.90	3766533.57	37930.82	0.2101	0.1884	0.9531	0.9781	0.1938	8.95E-04	5.87E-06	2.87E-06	1.46E-05	1.51E-05	2.95E-06	9.3597E-04
469050.32	3766549.64	37762.83	0.2093	0.1852	0.9772	1.0026	0.1904	8.91E-04	5.85E-06	2.82E-06	1.50E-05	1.55E-05	2.90E-06	9.3264E-04
469059.75	3766565.71	37717.69	0.2095	0.1834	1.0099	1.0362	0.1885	8.90E-04	5.85E-06	2.80E-06	1.55E-05	1.60E-05	2.87E-06	9.3254E-04
469069.17	3766581.79	37548.84	0.2085	0.1806	1.0353	1.0621	0.1855	8.86E-04	5.83E-06	2.75E-06	1.59E-05	1.64E-05	2.83E-06	9.2923E-04
469078.59	3766597.86	37434.21	0.2079	0.1785	1.0649	1.0927	0.1832	8.83E-04	5.81E-06	2.72E-06	1.63E-05	1.69E-05	2.79E-06	9.2737E-04
469088.01	3766613.93	37228.99	0.2064	0.1756	1.0879	1.1162	0.1802	8.78E-04	5.77E-06	2.68E-06	1.67E-05	1.73E-05	2.75E-06	9.2312E-04
469174.20	3766727.91	37069.74	0.1969	0.1570	1.3									

Barton Road Logistics Center Project

Top 10 Concentrations

AERMOD (19191)

AERMET (16216)

10/1/2020

C:\Users\kjohnson\Desktop\237.0027 Colton Barton Road\Colton Barton

FROM PLOT FILE OF ANNUAL VALUES AVERAGED ACROSS 5 YEARS

FOR A TOTAL OF 2139 RECEPTORS.

FORMA T: (3(1X,F13.5),3(1X,F8.2),2X,A6,2X,A8,2X,I8.8,2X,A8)

X	Y	Unit Emissions	Unit Emissions	Unit Emissions	Unit Emissions	Unit Emissions	Unit Emissions	ZELEV	ZHILL	ZFLAG	AVE	NUM YRS
		AVERAGE CONC	AVERAGE CONC	AVERAGE CONC	AVERAGE CONC	AVERAGE CONC	AVERAGE CONC					
		SITEAREA	ROAD1	ROAD2	ROAD3	ROAD4	ROAD5					
469594.13	3766418.72	1904213.336	0.75349	0.38705	2.52483	2.26188	0.39894	295.61	449.47	0	ANNUAL	5
469574.86	3766418.61	1902771.344	0.73112	0.38599	2.79832	2.49229	0.39808	295.27	449.47	0	ANNUAL	5
469664.53	3766220.16	1899909.676	2.70398	0.74223	1.63114	1.54013	0.75686	291.44	449.47	0	ANNUAL	5
469674.33	3766257.95	1899466.865	2.08731	0.65697	1.63901	1.53554	0.6711	290.66	449.47	0	ANNUAL	5
469679.23	3766276.84	1899279.587	1.85326	0.61995	1.6428	1.53331	0.63368	289.84	449.47	0	ANNUAL	5
469669.43	3766239.06	1897944.706	2.36665	0.6977	1.63541	1.53807	0.71209	291.15	449.47	0	ANNUAL	5
469613.39	3766418.84	1892878.498	0.77579	0.38807	2.29275	2.06515	0.39974	295.84	449.47	0	ANNUAL	5
469659.63	3766201.27	1885990.958	3.11626	0.78883	1.62073	1.53788	0.80369	292.02	449.47	0	ANNUAL	5
469555.6	3766418.5	1885432.055	0.70849	0.38439	3.11901	2.76052	0.39664	294.99	449.47	0	ANNUAL	5
469684.13	3766295.74	1880556.495	1.65618	0.5839	1.63763	1.52425	0.59715	289.74	449.47	0	ANNUAL	5

CONCUNIT ug/m^3
DEPUNIT g/m^2

Health Risk Assessment

Operational Parameters

Barton Road Logistics Center Project**DPM****Emission Assumptions****Emission Factors**

- 1) Truck and Auto Exhaust and Idling Emissions
 - (1) EMFAC2017
 - (a) Calculations for San Bernardino County
 - (b) Truck Mix Fleet Mix estimated based on traffic report
EMFAC to derive the number of diesel truck vehicles
 - (c) Truck Idle Time: 15 minutes (truck idling only applies to HDT vehicles)
 - (d) Onsite Vehicle Travel Speed 10 mph for trucks
 - (e) Offsite Vehicle Travel Speed 25 mph for trucks
 - (f) Offsite Vehicle Travel Speed 35 mph for passenger cars
 - (d) Onsite Vehicle Travel Speed 15 mph for passenger cars

Traffic Allocation

- 1) Traffic distributed by driveway in accordance with information provided by the traffic report
- 2) Trip generation by traffic report
- 3) Onsite travel emissions generated from diesel vehicles
- 4) Onsite idling emissions generated only by trucks

Emission Source Configuration

- 1) Project onsite truck traffic represented by a line source
- 2) Project onsite passenger car traffic represented as a line source
- 2) Project onsite truck idling represented as line sources
- 3) Offsite vehicles represented by a line source

Onsite Vehicle Travel Segments

Segment	Source ID	Segment Travel Distance (m)
9.On-site Travel Bldg 1 – Segment 1	SLINE9	1024.9
10.On-site Travel Bldg 1 – Segment 2	SLINE10	214.1
11.On-site Travel Bldg 2	SLINE11	400.7
12.On-site Passenger Vehicles - Bldg 2	SLINE12	1198.1
13.On-site Passenger Vehicles - Bldg 1	SLINE13	1207.9
Onsite Truck Idling		
6.Bldg 1 Dock Doors 1 of 2	SLINE6	248.2
7.Bldg 1 Dock Doors 2 of 2	SLINE7	259.7
8.Bldg 2 Dock Doors	SLINE8	218.8

Offsite Vehicle Travel Segments

Segment	Source ID	Segment Travel Distance (m)
1.Off-site Road 1 – To/from East/West	SLINE1	315.8
2.Off-site Road 2 – To Project from South	SLINE2	864.8
3.Off-site Road 3 – From Project towards North	SLINE3	895.6
4.Off-site Road 4 – To Project from North	SLINE4	967.4
5.Off-site Road 5 – From Project towards South	SLINE5	863.7

Other Input Parameters

Facility Operations (hr/day): 24

Barton Road Logistics Center Project

Vehicle Fleet Mix

	Building Size (ksf)	Daily Trip Rate (trips/TSF)	Total Daily Trips (Trips/day)		Cars	Trucks	Total Daily Trips
Warehouse	940.040	1.43	1,348	Daily Trips	1,130	218	1,348
Office	20.000	—	—	Fleet Mix	83.8%	16.2%	100.0%
Total	960.040	—	1,348				

Vehicle Fleet

	Passenger Cars & Trucks			Total Number of Daily Trips	Number of Daily Diesel Trips	Number of Daily Non-Diesel Trips	Total Number of Daily Trips	% Diesel Trips	% Non-Diesel Trips	Total Trips
	Project Vehicle Distribution	Project Vehicle Mix	EMFAC % Diesel							
LDA (Passenger Car)	52.3%	62.4%	0.86%	841	7	698	705	0.54%	51.79%	
LDT1	3.4%	4.1%	0.04%	55	0	46	46	0.00%	3.44%	
LDT2	17.1%	20.3%	0.59%	274	2	228	230	0.12%	16.93%	
MDV	11.0%	13.1%	2.07%	177	4	145	148	0.00%	11.00%	
SubTotal	83.83%	100.0%		1,348	13	1,117	1,130	0.66%	83.17%	83.83%
LHDT1 (2 axle truck)	2.0%	12.6%	43.5%	27	12	15	27	0.88%	1.15%	
LHDT2	0.6%	4.0%	64.1%	9	6	3	9	0.41%	0.23%	
MHDT (3 axle truck)	3.4%	21.1%	78.8%	46	36	10	46	2.69%	0.72%	
HHDT (4+ axle truck)	10.1%	62.4%	100.0%	136	136	0	136	10.08%	0.01%	
Truck Subtotal	16.17%			218	190	28	218	14.07%	2.11%	16.17%
Total	100.0%				202	1,146	1,348	15.00%	85.00%	100.00%

Vehicle Fleet Mix consistent with the project-specific traffic impact analysis report
% Diesel taken from EMFAC2017 (based on percent diesel out of all diesel- and gasoline-fueled)

Barton Road Logistics Center Project

Trip Distribution

Vehicle Allocation - Number of Daily Diesel Trips

Allocation of Building Trips

Percent Allocation - On-site Travel

- 25% On-site Travel Bldg 1 – Segment 1 (DSL trucks)
- 25% On-site Travel Bldg 1 – Segment 2 (DSL trucks)
- 50% On-site Travel Bldg 2 (DSL trucks)
- 100% Total Diesel Truck Trips
- 50% On-site Passenger Vehicles - Bldg 2 (DSL auto cars)
- 50% On-site Passenger Vehicles - Bldg 1 (DSL auto cars)
- 100% Total Diesel Auto Car Trips

Segment - On-site Travel	Source ID	LDA	LDT1	LDT2	MDT	LHDT1	LHDT2	MHDT	HHDT	Total
9.On-site Travel Bldg 1 – Segment 1	SLINE9	0.0	0.0	0.0	0.0	3.0	1.4	9.1	34.0	47.4
10.On-site Travel Bldg 1 – Segment 2	SLINE10	0.0	0.0	0.0	0.0	3.0	1.4	9.1	34.0	47.4
11.On-site Travel Bldg 2	SLINE11	0.0	0.0	0.0	0.0	6.0	2.8	18.1	68.0	94.8
12.On-site Passenger Vehicles - Bldg 2	SLINE12	3.6	0.0	0.8	1.8	0.0	0.0	0.0	0.0	6.3
13.On-site Passenger Vehicles - Bldg 1	SLINE13	3.6	0.0	0.8	1.8	0.0	0.0	0.0	0.0	6.3
Total Diesel Trucks	—	0	0	0	0	12	6	36	136	190
Total Diesel Passenger Vehicles	—	7	0	2	4	0	0	0	0	13
Total Diese (Trucks + Passenger Vehicles)	—	7	0	2	4	12	6	36	136	202

Percent Allocation - On-site Diesel Truck Idling

- 25% Bldg 1 Dock Doors 1 of 2
- 25% Bldg 1 Dock Doors 2 of 2
- 50% Bldg 2 Dock Doors
- 100% Total Diesel Truck Trips

Segment - On-site Travel	Source ID	LDA	LDT1	LDT2	MDT	LHDT1	LHDT2	MHDT	HHDT	Total
6.Bldg 1 Dock Doors 1 of 2	SLINE6	0.0	0.0	0.0	0.0	3.0	1.4	9.1	34.0	47.4
7.Bldg 1 Dock Doors 2 of 2	SLINE7	0.0	0.0	0.0	0.0	3.0	1.4	9.1	34.0	47.4
8.Bldg 2 Dock Doors	SLINE8	0.0	0.0	0.0	0.0	6.0	2.8	18.1	68.0	94.8
Total Diesel Trucks	—	0	0	0	0	12	6	36	136	190

Health Risk Assessment

2022 Operations

Barton Road Logistics Center Project

Diesel Vehicle Emissions

Facility Operations

24 hrs/day, 52 weeks/year

Roadway Links Modeled

Link	Truck Type	Average Speed (mph)	Emission Factor (g/mi)	Trips per Daily (in and out)	Link Length (m)	Link Length (mi)	Ave Emissions Over Link (g/day)	Ave Emissions (lbs/day)	Average Emissions (g/sec)	Total Emissions for all Vehicles (g/sec)
SLINE9	LHDT1	10	0.052	3	1024.9	0.64	9.936E-02	2.19E-04	1.150E-06	
	LHDT2	10	0.050	1	1024.9	0.64	4.365E-02	9.61E-05	5.052E-07	
	MHDT	10	0.052	9	1024.9	0.64	2.971E-01	6.54E-04	3.439E-06	
	HHDT	10	0.040	34	1024.9	0.64	8.670E-01	1.91E-03	1.003E-05	1.51E-05
SLINE10	LHDT1	10	0.052	3	214.1	0.13	2.08E-02	4.57E-05	2.40E-07	
	LHDT2	10	0.050	1	214.1	0.13	9.12E-03	2.01E-05	1.06E-07	
	MHDT	10	0.052	9	214.1	0.13	6.21E-02	1.37E-04	7.18E-07	
	HHDT	10	0.040	34	214.1	0.13	1.81E-01	3.99E-04	2.10E-06	3.16E-06
SLINE11	LHDT1	10	0.052	6	400.7	0.25	7.77E-02	1.71E-04	8.99E-07	
	LHDT2	10	0.050	3	400.7	0.25	3.41E-02	7.52E-05	3.95E-07	
	MHDT	10	0.052	18	400.7	0.25	2.32E-01	5.12E-04	2.69E-06	
	HHDT	10	0.040	68	400.7	0.25	6.78E-01	1.49E-03	7.85E-06	1.18E-05
SLINE12	LDA	15	0.013	4	1198.1	0.74	3.39E-02	7.47E-05	3.93E-07	
	LDT1	15	0.332	0	1198.1	0.74	2.74E-03	6.03E-06	3.17E-08	
	LDT2	15	0.010	1	1198.1	0.74	6.17E-03	1.36E-05	7.15E-08	
	MDV	15	0.010	2	1198.1	0.74	1.34E-02	2.94E-05	1.55E-07	6.50E-07
SLINE13	LDA	15	0.013	4	1207.9	0.75	3.420E-02	7.53E-05	3.958E-07	
	LDT1	15	0.332	0	1207.9	0.75	2.761E-03	6.08E-06	3.195E-08	
	LDT2	15	0.010	1	1207.9	0.75	6.225E-03	1.37E-05	7.205E-08	
	MDV	15	0.010	2	1207.9	0.75	1.346E-02	2.97E-05	1.558E-07	6.56E-07

Diesel Vehicle Emissions

Diesel truck idling Emissions

Onsite Vehicle Travel Segments	Truck Type	DPM Emission Factor		Number Idling Vehicle Trips/day	Emissions (g/day)	Emissions (lb/day)	Average Emissions (g/sec)	Total Emissions for all Vehicles (g/sec)
		(grams/trip)	Idling Time (min)					
SLINE6	LHDT1	0.001	15	3.0	2.87E-03	6.39E-05	3.33E-08	3.94E-06
	LHDT2	0.001	15	1.4	1.77E-03	3.91E-06	2.05E-08	
	MHDT	0.000	15	9.1	3.50E-03	7.70E-06	4.05E-08	
	HHDT	0.010	15	34.0	3.32E-01	7.32E-04	3.85E-06	
SLINE7	LHDT1	0.001	15	3.0	2.87E-03	6.33E-06	3.33E-08	3.94E-06
	LHDT2	0.001	15	1.4	1.77E-03	3.91E-06	2.05E-08	
	MHDT	0.000	15	9.1	3.50E-03	7.70E-06	4.05E-08	
	HHDT	0.010	15	34.0	3.32E-01	7.32E-04	3.85E-06	
SLINE8	LHDT1	0.001	15	6.0	5.75E-03	1.27E-05	6.65E-08	7.88E-06
	LHDT2	0.001	15	2.8	3.55E-03	7.82E-06	4.11E-08	
	MHDT	0.000	15	18.1	6.99E-03	1.54E-05	8.10E-08	
	HHDT	0.010	15	68.0	6.65E-01	1.46E-03	7.69E-06	

Barton Road Logistics Center Project

Project Operations

24 hours/day

Offsite DSL Truck Roadway Emissions

Segment ID	Description	% total Trips
SLINE1	1. Off-site Road 1 – To/from East/West	33.3%
SLINE2	2. Off-site Road 2 – To Project from South	16.7%
SLINE3	3. Off-site Road 3 – From Project towards North	16.7%
SLINE4	4. Off-site Road 4 – To Project from North	16.7%
SLINE5	5. Off-site Road 5 – From Project towards South	16.7%
Total		100.0%

Segment ID:

SLINE1

Travel Distance:

315.8 meters

Operations

24 hours/day

Vehicle Class	Daily Trips (trips/day)	Emission Factor (g/mi)	Travel Distance (mi)	Emissions (g/day)	Emissions (g/sec)
LHDT1-DSL	4	0.002	0.20	0.00	2.10E-08
LHDT2-DSL	2	0.002	0.20	0.00	7.69E-09
MHDT-DSL	12	0.002	0.20	0.00	4.27E-08
HHDT-DSL	45	0.003	0.20	0.02	2.65E-07
Total	63				3.36E-07

Segment ID:

SLINE2

Travel Distance:

864.8 meters

Operations

24 hours/day

Vehicle Class	Daily Trips (trips/day)	Emission Factor (g/mi)	Travel Distance (mi)	Emissions (g/day)	Emissions (g/sec)
LHDT1-DSL	2	0.002	0.54	0.00	2.87E-08
LHDT2-DSL	1	0.002	0.54	0.00	1.05E-08
MHDT-DSL	6	0.002	0.54	0.01	5.85E-08
HHDT-DSL	23	0.003	0.54	0.03	3.63E-07
Total	32				4.60E-07

Segment ID:

SLINE3

Travel Distance:

895.6 meters

Operations

24 hours/day

Vehicle Class	Daily Trips (trips/day)	Emission Factor (g/mi)	Travel Distance (mi)	Emissions (g/day)	Emissions (g/sec)
LHDT1-DSL	24	0.002	0.56	0.03	3.59E-07
LHDT2-DSL	1	0.002	0.56	0.00	1.09E-08
MHDT-DSL	6	0.002	0.56	0.01	6.05E-08
HHDT-DSL	23	0.003	0.56	0.03	3.76E-07
Total	32				8.06E-07

Segment ID:

SLINE4

Travel Distance:

967.4 meters

Operations

24 hours/day

Vehicle Class	Daily Trips (trips/day)	Emission Factor (g/mi)	Travel Distance (mi)	Emissions (g/day)	Emissions (g/sec)
LHDT1-DSL	24	0.002	0.56	0.03	3.59E-07
LHDT2-DSL	1	0.002	0.56	0.00	1.09E-08
MHDT-DSL	6	0.002	0.56	0.01	6.05E-08
HHDT-DSL	23	0.003	0.56	0.03	3.76E-07
Total	32				8.06E-07

Segment ID: SLINE5

Travel Distance: 863.7 meters

Operations 24 hours/day

Vehicle Class	Daily Trips (trips/day)	Emission Factor (g/mi)	Travel Distance (mi)	Emissions (g/day)	Emissions (g/sec)
LHDT1-DSL	24	0.002	0.56	0.03	3.59E-07
LHDT2-DSL	1	0.002	0.56	0.00	1.09E-08
MHDT-DSL	6	0.002	0.56	0.01	6.05E-08
HHDT-DSL	23	0.003	0.56	0.03	3.76E-07
Total	32				8.06E-07

Offsite Passenger Vehicle Roadway Segments

Segment ID	Description	% Total Trips
Passenger Vehicles		
SLINE1	1.Off-site Road 1 – To/from East/West	33.3%
SLINE2	2.Off-site Road 2 – To Project from South	16.7%
SLINE3	3.Off-site Road 3 – From Project towards North	16.7%
SLINE4	4.Off-site Road 4 – To Project from North	16.7%
SLINE5	5.Off-site Road 5 – From Project towards South	16.7%
Total		100.0%

Offsite Auto Vehicle Roadway Segment Trips

Segment	LDA-DSL (trips/day)	LDT1-DSL (trips/day)	LDT2-DSL (trips/day)	MDT-DSL (trips/day)
Total Diesel Passenger Vehicles	7.2	0.0	1.6	3.7
SLINE1	2.4	0.0	0.5	1.2
SLINE2	1.2	0.0	0.3	0.6
SLINE3	1.2	0.0	0.3	0.6
SLINE4	1.2	0.0	0.3	0.6
SLINE5	1.2	0.0	0.3	0.6

Offsite Segment ID SLINE1 Emission Factor @ 35 mph for LDA, LDT, MDT

	Segment Length (m)	Segment Length (mi)	Emission Factor (g/mi)	Emissions (g/day)	Operations (hours/day)	Emissions (g/sec)
LDA-DSL	315.8	0.20	0.001	6.55E-04	24	7.58E-09
LDT1-DSL	315.8	0.20	0.002	3.11E-06	24	3.60E-11
LDT2-DSL	315.8	0.20	0.001	1.56E-04	24	1.80E-09
MDT-DSL	315.8	0.20	0.001	2.37E-04	24	2.74E-09
Total						1.22E-08

Offsite Segment ID SLINE2 Emission Factor @ 35 mph for LDA, LDT, MDT

	Segment Length (m)	Segment Length (mi)	Emission Factor (g/mi)	Emissions (g/day)	Operations (hours/day)	Emissions (g/sec)
LDA-DSL	864.8	0.54	0.001	8.97E-04	24	1.04E-08
LDT1-DSL	864.8	0.54	0.002	4.26E-06	24	4.93E-11
LDT2-DSL	864.8	0.54	0.001	2.13E-04	24	2.47E-09
MDT-DSL	864.8	0.54	0.001	3.24E-04	24	3.75E-09
Total						1.66E-08

Offsite Segment ID

SLINE3

Emission Factor @ 35 mph for LDA, LDT, MDT

	Segment Length (m)	Segment Length (mi)	Emission Factor (g/mi)	Emissions (g/day)	Operations (hours/day)	Emissions (g/sec)
LDA-DSL	895.6	0.56	0.001	9.29E-04	24	1.07E-08
LDT1-DSL	895.6	0.56	0.002	4.41E-06	24	5.10E-11
LDT2-DSL	895.6	0.56	0.001	2.21E-04	24	2.56E-09
MDT-DSL	895.6	0.56	0.001	3.36E-04	24	3.88E-09

Total**1.72E-08****Offsite Segment ID**

SLINE4

Emission Factor @ 35 mph for LDA, LDT, MDT

	Segment Length (m)	Segment Length (mi)	Emission Factor (g/mi)	Emissions (g/day)	Operations (hours/day)	Emissions (g/sec)
LDA-DSL	967.4	0.60	0.001	1.00E-03	24	1.16E-08
LDT1-DSL	967.4	0.60	0.002	4.76E-06	24	5.51E-11
LDT2-DSL	967.4	0.60	0.001	2.39E-04	24	2.76E-09
MDT-DSL	967.4	0.60	0.001	3.62E-04	24	4.20E-09

Total**1.86E-08****Offsite Segment ID**

SLINE5

Emission Factor @ 35 mph for LDA, LDT, MDT

	Segment Length (m)	Segment Length (mi)	Emission Factor (g/mi)	Emissions (g/day)	Operations (hours/day)	Emissions (g/sec)
LDA-DSL	863.7	0.54	0.001	8.96E-04	24	1.04E-08
LDT1-DSL	863.7	0.54	0.002	4.25E-06	24	4.92E-11
LDT2-DSL	863.7	0.54	0.001	2.13E-04	24	2.47E-09
MDT-DSL	863.7	0.54	0.001	3.24E-04	24	3.75E-09

Total**1.66E-08**

EMFAC2017 Running Diesel Exhaust Emissions
in units of grams/mile

		Emission Factor (g/mi)			
		10 mph	15 mph	25 mph	35 mph
LDA	DSL	0.02	0.01	0.01	0.01
LDT1	DSL	0.45	0.33	0.20	0.15
LDT2	DSL	0.01	0.01	0.01	0.01
MDV	DSL	0.01	0.01	0.01	0.01
LHDT1	DSL	0.05	0.04	0.03	0.02
LHDT2	DSL	0.05	0.04	0.03	0.02
MHDT	DSL	0.05	0.04	0.03	0.03
HHDT	DSL	0.04	0.03	0.02	0.02

Idling Emissions (Emission Factors from CalEEMod)
in units of grams/trip

Vehicle	Vehicle		DPM
Class	Fuel	Speed (mph)	(grams/trip)
LHDT1	DSL	Idle	0.000965
LHDT2	DSL	Idle	0.001283
MHDT	DSL	Idle	0.000386
HHDT	DSL	Idle	0.009778

Unmitigated
Diesel Truck Emissions

2022

Annual Average Offsite Total DPM Emission Rate - Segment 1 (grams/sec):											3.36E-07
Annual Average Offsite Total DPM Emission Rate - Segment 2 (grams/sec):											4.06E-07
Annual Average Offsite Total DPM Emission Rate - Segment 3 (grams/sec):											8.06E-07
Annual Average Offsite Total DPM Emission Rate - Segment 4 (grams/sec):											8.06E-07
Annual Average Offsite Total DPM Emission Rate - Segment 5 (grams/sec):											8.06E-07
Annual Average Offsite Total DPM Emission Rate - Segment 6 (grams/sec):											3.94E-06
Annual Average Offsite Total DPM Emission Rate - Segment 7 (grams/sec):											3.94E-06
Annual Average Offsite Total DPM Emission Rate - Segment 8 (grams/sec):											7.88E-06
Annual Average Offsite Total DPM Emission Rate - Segment 9 (grams/sec):											1.51E-05
Annual Average Offsite Total DPM Emission Rate - Segment 10 (grams/sec):											3.16E-06
Annual Average Offsite Total DPM Emission Rate - Segment 11 (grams/sec):											1.18E-05
	SUNE1	SUNE2	SUNE3	SUNE4	SUNE5	SUNE6	SUNE7	SUNE8	SUNE9	SUNE10	SUNE11
	Offsite Travel 1 Unit Emissions	Offsite Travel 2 Unit Emissions	Offsite Unit Emissions	Offsite Unit Emissions	Offsite Unit Emissions	Offsite Unit Emissions	Offsite Unit Emissions	Offsite Unit Emissions	Offsite Unit Emissions	Offsite Unit Emissions	Offsite Unit Emissions
X	Y										
	Trucks Segment 1	Trucks Segment 2	Trucks Segment 3	Trucks Segment 4	Trucks Segment 5	Trucks Segment 6	Trucks Segment 7	Trucks Segment 8	Trucks Segment 9	Trucks Segment 10	Trucks Segment 11
46964.93	3766144.59	18.7551	3.4011	6.3014	5.7946	3.4689	14.2261	62.7276	33.4656	19.2217	6.8558
46964.83	3766163.48	16.2825	3.1697	6.0480	5.7993	3.2205	14.6538	64.1442	5.1819	16.8649	6.2372
46964.73	3766182.38	14.2975	2.9758	6.0450	5.7896	3.0261	14.9817	64.5877	4.8053	14.8826	5.7030
46965.63	3766201.27	12.6789	2.8060	6.0353	5.7234	2.8505	15.2006	64.0393	4.4695	13.2065	5.2385
46964.53	3766220.16	11.2923	2.6328	6.0449	5.7123	2.6849	15.3001	62.2215	4.1717	11.7768	4.8348
46964.43	3766239.06	10.1416	2.4913	6.0198	5.6824	2.5390	15.2856	59.3560	3.9029	10.5585	4.4781
46964.33	3766257.95	9.1505	2.3610	5.9936	5.6518	2.3943	15.1442	55.1840	3.6619	9.5096	4.1611
46955.60	3766418.50	4.2321	1.5558	10.8545	9.7993	1.5974	21.5713	17.5902	2.1505	50.5857	5.2490
46964.59	3766139.75	20.2513	3.7355	6.0726	5.9238	3.8140	12.5253	48.5252	5.5359	26.9027	6.7284
46967.23	3766276.84	8.2437	2.2427	5.9825	5.6296	2.2637	14.8607	49.6383	4.4447	13.7272	5.5978
46966.49	3766158.64	17.5238	3.5287	6.1201	5.9378	3.6087	12.8686	49.6517	5.0635	27.2616	16.3078
46967.39	3766177.53	15.3234	3.3309	6.1571	5.9440	3.4115	13.1463	50.0462	4.6476	27.5172	5.4974
46954.86	3766446.61	4.1325	1.5529	10.0288	9.0941	1.5956	19.6734	21.2228	45.9319	5.1890	2.4386
46967.30	3766166.45	13.5187	6.1424	6.1843	5.9433	3.2229	13.9477	49.6652	4.2787	17.6795	12.7876
46968.13	3766295.74	7.5641	2.1340	5.9309	5.5682	2.1549	14.5108	43.6502	3.2453	32.9862	3.6306
46968.20	3766215.32	12.0168	2.9603	6.2014	5.9335	3.0393	13.4698	48.6284	3.9575	27.7589	11.4670
46959.13	3766418.27	4.1860	1.5509	8.4786	5.1949	1.5949	14.0152	17.0298	2.0922	41.1706	5.1213
46968.10	3766234.21	10.7536	2.7869	6.2090	5.9158	2.8634	13.5054	46.8302	3.7673	27.7330	10.3279
46969.00	3766231.11	9.6815	2.6246	6.2084	5.8928	2.6981	13.4486	44.2842	3.4259	27.5632	9.3426
46959.13	3766418.27	4.1860	1.5509	8.4786	5.1949	1.5949	14.0152	17.0298	2.0922	41.1706	5.1213
46968.26	3766114.40	21.6725	3.7180	5.6471	5.5444	3.7901	11.1461	38.7397	5.6346	22.3207	17.0683
469613.39	3766418.84	4.4508	1.5540	8.6855	5.7984	1.5991	16.5956	17.8580	2.0703	36.5278	5.0487
46968.7	3766131.80	18.6270	3.5299	5.7017	5.6099	3.4054	11.4158	39.6779	3.1492	22.6721	15.2885
46969.70	3766272.00	4.2967	2.4754	6.2925	5.8689	2.4643	13.2937	40.9828	3.1949	27.1876	1.4807
46969.06	3766172.69	3.3471	5.7465	5.7783	3.4247	11.6751	40.0616	4.7190	22.8670	13.7161	5.5284
46969.96	3766191.58	14.2064	3.1664	5.7817	5.5957	3.2445	11.8596	39.9082	4.3413	22.9859	12.3367
46970.86	3766210.46	9.1505	2.3610	5.9936	5.6518	2.3943	15.1442	55.1840	3.6619	9.5096	4.1611
46969.93	3766333.52	6.3625	1.8307	5.8515	5.4623	1.9564	13.4646	31.1807	2.8975	29.6654	6.5396
46970.80	3766290.90	7.9768	1.9352	6.1897	5.8400	2.4032	13.0473	37.0531	2.9880	26.5874	7.7307
46962.66	3766448.95	4.0796	1.5172	7.4895	6.4335	1.5087	17.4927	18.4585	30.1576	2.4707	2.2845
46956.22	3766437.67	3.0785	1.4848	11.8289	10.6255	1.5222	19.8465	14.5038	2.0735	37.0077	4.2037
46970.67	3766229.37	11.1947	2.8154	5.8323	5.5835	2.8899	12.0434	32.7294	2.2860	10.0778	4.2844
46955.48	3766447.78	3.9753	1.4768	10.8599	9.8053	1.5151	18.1523	14.8985	2.0422	35.4642	4.8752
46971.67	3766248.27	2.6578	5.8379	5.7177	5.7007	3.4247	12.0333	32.8034	3.1477	24.1512	1.5112
46962.80	3766137.49	45.580	5.2988	79.7080	5.4805	30.3480	9.8106	2.0461	19.8227	16.3450	5.7702
46959.80	3766119.29	46.299	5.8955	82.1169	96.2561	6.1061	27.9973	9.5878	5.8150	19.2331	17.7171
46976.80	3766155.76	4.4715	77.4802	5.7415	5.1217	3.1813	22.8123	4.8471	31.9512	1.7131	4.4031
46970.83	3766148.96	19.7070	3.5237	5.1381	5.3938	3.2348	12.4086	2.5496	19.2524	14.4162	6.1056
46970.77	3766309.79	7.2919	2.2054	6.1726	5.8098	2.2707	12.7102	32.7322	2.7992	25.7074	7.0730
46954.75	3766407.90	4.10459	1.4733	10.3459	9.3839	1.5127	15.1247	15.1247	2.0131	34.3445	8.8228
46968.79	3766173.91	4.4325	4.4251	17.3730	15.5619	4.5823	33.4845	10.0649	4.8241	13.7790	11.6912
46971.73	3766267.85	17.0551	3.3566	5.3682	5.2550	3.4299	10.4412	32.7785	4.8087	19.4108	13.0539
46971.79	3766192.11	4.2584	4.0755	76.8231	111.9873	4.2155	34.2833	10.1258	4.5451	19.2302	12.5389
46969.83	3766232.42	5.8067	5.4386	5.8067	5.4386	5.8067	5.4386	5.8067	5.4386	5.8067	5.4386
46976.57	3766267.16	9.0635	2.5098	5.8370	5.5553	2.5801	11.9267	34.0798	3.2332	19.6501	8.3381
46975.63	3766186.74	14.4704	3.1853	5.4108	5.2721	3.2601	10.6076	32.7570	4.4203	22.8802	11.8334
46965.92	3766450.92	4.5627	7.6432	7.6432	7.6432	7.6432	7.6432	7.6432	7.6432	7.6432	7.6432
46974.79	3766210.32	4.1496	3.7742	76.8146	109.0388	3.8970	34.6248	10.1350	4.2882	19.0158	11.4936
46959.01	3766448.01	4.1102	1.4709	9.3240	8.4875	1.5115	15.9575	1.9897	30.8630	1.4731	2.2416
46972.53	3766235.64	4.4599	3.0099	5.1309	5.3839	3.0839	10.7323	31.3722	4.4599	19.7185	10.7500
46972.60	3766318.68	6.4925	2.0836	6.1446	5.7734	2.1456	12.2954	2.1456	2.6324	26.4385	4.4959
46977.78	3766228.52	4.0369	3.5116	76.9885	132.9229	3.6211	34.7676	10.0902	4.0515	18.7371	10.5491
46972.47	3766286.05	8.2233	2.3704	5.8431	5.5343	2.4382	11.7543	31.4042	10.233	22.1637	7.6230
46972.41	3766234.51	4.2416	5.4171	5.4171	5.4171	5.4171	5.4171	5.4171	5.4171	5.4171	5.4171
46980.78	3766246.73	3.9307	2.6316	76.8010	108.9177	3.3523	34.1209	10.5012	3.7918	19.5012	9.7250
46961.38	3766448.12	4.1674	1.4712	8.7004	7.9478	1.5130	14.7469	15.0474	1.9643	28.2097	4.7002
46974.50	3766414.12	4.5033	4.5033	4.5033	4.5033	4.5033	4.5033	4.5033	4.5033	4.5033	4.5033
469730.33	3766243.42	10.3846	2.6851	5.4881	5.2707	2.7556	10.8122	30.4221	3.5268	19.5573	6.0326
46928.77	3766264.93	3.8273	3.0282	76.3812	108.9124	3.1000	33.4815	9.9175	3.6371	18.2572	8.9922
46924.07	3766122.42	4.4388	48.5427	70.4268	23.6566	4.4388	48.5427	70.4268	23.6566	4.4388	48.5427
469729.40	3766239.40	17.8320	3.8329	4.9438	4.9438	4.9438	4.9438	4.9438	4.9438	4.9438	4.9438
469726.37	3766304.95	7.4875	2.2409	5.8278	5.5118	2.3062	11.5058	28.4055	2.8303	16.4446	6.9909
46924.77	3766140.63	4.2900	5.0066	48.1259	69.3524	5.1369	25.7006	8.8885	5.2099	21.6849	14.5118
46923.96	3766272.20	4.4453	6.9090	73.6517	90.8087	6.9090	73.6517	90.8087	6.9090	73.6517	90.8087
46924.77	3766158.83	4.2900	5.0066	48.1259	69.3524	5.1369	25.7006	8.8885	5.2099	21.6849	14.5118
46970.74	3766371.31	5.4582	1.7351	5.7529	5.8306	1.7894	12.1283	21.7705	2.6051	14.1777	5.5491
469734.30	3766130.46	15.3246	3.1867	5.0710	4.9667	3.1867	9.9855	27.4009	4.5110	27.0902	11.7321
46923.81	3766069.35	4.4750	7.8471	50.2692	75.4311	8.2007	18.8812	6.6110	14.9116	18.2612	6.7334
46924.76	3766177.04	4.1335	4.0947	46.7209	64.6070	4.2245	27.8096	9.1422	6.8300	16.6331	42.4954
46971.50	3766340.74	6.1549	1.9700	6.1179	5.2086	2.0286	11.8130	24.4142	2.03474</		

469850.27	3766091.32	29.7890	3.4088	3.1204	3.1930	3.4229	8.9816	6.4088	7.4455	10.3946	6.9342
469851.91	3766028.42	10.7255	3.6925	3.3937	2.9993	6.5649	13.9149	6.2866	8.4236	4.4611	4.2256
469851.94	3766289.84	7.7593	3.2114	4.0999	3.9302	7.5666	10.0274	3.0500	10.3656	1.0581	1.5647
469855.17	3766110.22	24.6813	3.2927	3.1956	3.2320	3.3125	10.3476	5.9441	7.7097	10.2028	6.4637
469140.02	3763993.59	3.4557	5.2292	16.1279	21.1210	10.1536	8.4552	5.0048	6.3471	10.7241	10.3693
469632.21	3766466.06	21.4758	3.1275	3.1440	3.1440	3.2515	10.3762	1.6653	9.7121	14.8838	7.7279
469860.07	3766129.11	20.8889	3.1829	3.2642	3.3075	5.0864	10.8246	5.5309	7.2643	9.9605	6.0349
469176.64	3762607.77	3.2044	2.9353	17.3712	19.1887	3.0500	16.4495	6.3042	3.2074	16.8534	8.0005
469121.05	3766265.61	20.9457	2.9184	22.4136	22.4136	3.0400	16.4136	2.6400	16.4136	16.4656	1.5071
469262.06	3766382.13	2.8930	1.7870	30.3067	35.3211	1.8286	16.7665	2.5472	11.2857	9.6185	5.2762
469162.17	3765715.68	3.1622	63.7024	5.4198	6.7071	108.4555	3.8045	3.3074	11.3220	3.8021	6.6151
469811.55	3766789.17	3.7887	1.7842	4.2058	4.2058	3.0400	16.4136	2.6400	16.4136	12.1725	5.0400
469870.81	3766247.31	9.5996	2.3354	3.7753	3.7444	5.5830	6.7355	13.9535	3.5673	9.4870	3.9314
469864.97	3766148.00	17.9221	3.0683	3.1290	3.1565	3.0977	5.2890	11.2745	5.1402	8.1303	6.6464
469136.85	3763975.74	3.4121	10.7790	15.8103	20.6133	11.4052	7.9195	4.8462	6.5886	6.8881	10.1509
469147.88	3765775.75	3.2945	31.4131	4.1131	10.9603	43.3862	4.7027	3.7564	10.0694	11.2857	4.5905
469866.85	3766308.81	7.0606	2.2152	4.0681	2.2678	7.6862	14.6938	2.8578	10.3501	6.6824	3.1449
469869.88	3766166.90	15.6288	2.9733	3.3877	3.4042	3.0073	5.4788	4.8132	6.2889	9.3954	5.2713
469179.64	3766225.98	3.1489	2.7306	17.3150	19.0942	2.8229	14.7951	6.2107	3.0432	6.6253	7.5954
469857.98	3766351.47	5.8622	1.9996	4.3052	4.1411	2.0536	8.3288	14.5078	2.4549	11.0112	5.8381
469138.42	3765863.76	3.3571	20.3889	11.0665	16.2261	25.6628	5.7013	4.1379	6.6290	5.3634	8.9233
469534.57	3766514.81	3.1057	1.2612	11.8360	10.6308	1.2882	11.6825	8.7320	1.9515	14.4536	3.7648
469516.40	3766514.70	3.0535	1.8037	13.0061	11.6527	1.1362	11.3764	8.5738	1.9849	14.4052	4.7871
469874.78	3766185.79	13.6950	2.8617	3.4440	3.4451	2.8990	5.6822	12.0377	4.4827	9.0034	4.9126
469146.64	3765770.03	3.2293	13.5713	7.2044	9.5102	46.7232	4.4455	3.6086	10.1761	4.1436	7.4829
469240.75	3766384.14	2.9058	1.8038	24.4577	27.4784	1.9056	16.3418	4.7452	2.4002	10.6808	5.5384
469854.15	3766370.01	5.4327	1.9079	4.4011	4.2191	1.9618	8.5163	14.1017	2.3006	11.2030	5.4786
469879.68	3766204.69	12.1009	2.7536	3.4758	3.4821	2.7937	5.8796	12.3320	4.1817	8.5407	6.6030
469182.63	3766244.12	3.0901	2.5516	16.8455	18.2703	3.8921	14.9053	1.2943	6.5889	6.9077	2.0081
469555.03	3766514.93	3.1555	1.2345	10.8149	9.7688	1.2623	10.7435	8.8315	7.1752	14.3398	3.7354
469796.06	3766454.28	4.0630	1.4738	5.6131	5.2442	1.5193	10.0925	11.1710	1.7889	13.1423	3.9917
469827.67	3766412.62	3.4993	1.6932	4.7932	4.7932	1.5474	9.2431	13.0746	9.2431	12.1708	1.6980
469877.15	3766327.73	6.4548	2.1166	4.0880	3.9570	2.1690	7.7458	14.1846	2.6814	10.2788	6.2507
469651.47	3766496.20	3.3491	1.2588	7.6682	7.0468	1.2944	10.5013	8.7151	1.6451	13.9233	3.5521
469130.35	3763938.87	3.4604	12.5046	14.0610	18.9928	14.3720	6.9334	7.0907	6.1833	5.5246	6.4277
469880.61	3766265.10	7.8253	2.3322	4.7952	3.8020	2.7022	12.8122	9.0423	5.5565	6.9649	1.0649
469859.14	3766048.69	45.4308	3.5848	2.7628	2.6882	3.9846	7.7578	7.4548	6.2039	9.6609	7.8477
469884.58	3766223.58	10.7723	2.6508	3.5435	3.5163	2.6501	6.0701	12.5614	8.6449	8.2141	4.2824
469884.04	3766007.58	2.9449	2.4848	2.9108	2.8440	2.9108	4.4843	4.1251	9.4877	6.7041	3.7303
469854.24	3766029.80	30.9658	3.6704	2.6831	2.7954	3.6575	3.8036	7.3591	7.9371	5.9479	8.2772
469794.73	3766449.44	4.1079	1.5041	5.3167	5.0323	1.5515	9.8086	11.3401	1.7930	12.8826	4.0583
469145.46	3766180.88	15.8115	15.8615	16.8912	16.8912	15.8615	16.8912	15.8115	16.8912	16.8912	16.8912
469145.40	3765756.32	3.1616	35.9872	6.4970	8.3405	50.1079	4.1872	3.4655	10.2202	4.1086	7.0575
469868.94	3766086.48	29.2867	3.3696	2.9346	3.0147	3.3786	4.3320	8.7521	6.4518	7.6727	6.6694
469574.30	3766515.04	3.2007	1.2139	9.9610	9.0424	1.2427	10.3803	8.8778	1.6649	14.0953	3.7016
469864.88	3766417.41	4.2567	5.0977	4.8047	4.8047	4.8047	4.8047	4.8047	4.8047	4.8047	4.8047
469104.04	3766104.06	3.2391	4.4392	14.9023	16.8682	4.6802	10.7637	5.4457	8.2115	9.1051	0.9947
469185.63	3766262.39	3.0284	2.9869	17.2512	18.8203	2.4798	14.7498	6.2635	2.7620	12.0005	6.8208
469146.62	3766126.28	15.2195	15.2195	15.2195	15.2195	15.2195	15.2195	15.2195	15.2195	15.2195	15.2195
469136.87	3766086.21	3.2539	4.8038	16.8375	5.0929	10.6217	5.3351	4.3292	7.9007	9.2598	4.6582
469701.40	3766441.44	3.7482	1.3506	6.6412	6.1278	1.3883	8.9732	10.0294	1.7427	13.3188	3.8032
469121.29	3765928.65	3.2477	22.4184	3.2477	22.4184	3.2477	22.4184	3.2477	22.4184	3.2477	22.4184
469133.70	3766008.36	3.2827	2.2776	14.0088	16.8177	9.7053	5.5455	5.2166	4.5171	6.6743	8.8773
469126.25	3766382.82	2.9114	1.9763	20.1746	22.1682	2.0356	15.4896	6.4709	2.4156	9.9943	5.8455
469889.48	3766242.47	9.6482	2.5360	3.5851	3.5405	2.5796	6.2265	12.6462	3.6488	8.7121	7.7281
469885.11	3766048.05	3.2145	2.2306	3.8737	3.7744	2.2820	9.1420	13.2929	8.5409	9.5409	6.6209
469876.65	3766076.65	5.9325	2.0250	4.1075	3.9663	2.0773	7.7901	13.6237	2.5166	10.1942	5.8663
469151.62	3766174.49	3.1214	1.2887	15.1077	16.6591	3.4324	12.3709	5.7441	1.4459	8.5900	8.0230
469591.56	3766515.13	3.1407	9.2105	4.8306	4.8306	9.2105	12.3332	1.8792	13.7446	9.1648	7.7913
469266.05	3766406.00	2.7767	1.8005	31.2428	36.6241	1.8442	15.2457	6.6342	2.4320	10.6779	4.8786
469141.16	3765776.60	10.0890	38.9996	5.8611	7.3744	5.8611	3.9468	3.3254	10.2054	10.6879	6.6468
469141.86	3765901.81	16.7708	16.7708	16.7708	16.7708	16.7708	16.7708	16.7708	16.7708	16.7708	16.7708
469276.79	3766430.03	2.7773	3.9185	68.2111	101.0608	1.9566	14.9147	6.4739	2.3306	11.0422	5.5907
469670.74	3766496.32	3.5014	1.2674	7.2488	6.6758	1.3038	10.5786	8.6743	1.6388	13.2291	3.4797
469827.85	3766384.98	5.4962	1.9556	4.2006	4.0417	1.9880	7.9971	13.3539	2.8607	10.3871	5.5235
469148.61	3766265.10	7.2449	2.2488	17.2427	19.0942	2.8229	14.5678	6.2107	3.0432	6.6253	7.5954
469823.79	3766431.41	4.3373	1.6059	4.8700	4.6074	1.6559	9.1252	11.7939	4.3563	11.7939	4.3563
469732.06	3766466.56	3.8512	1.4435	5.3176	4.9336	1.4607	8.4855	10.3269	2.0450	12.4649	3.8715
469121.54	3766025.54	3.1671	14.5792	14.5792	16.9432	14.5792	14.5792	14.5792	14.5792	14.5792	14.5792
469127.37	3766032.66	3.2638	6.1193	14.0489	16.5538	6.5718	8.7501	4.9577	6.6982	7.5974	4.9132
469154.61	3766192.70	3.0806	3.0024	14.9443	16.3775	3.1270	12.6282	5.7801	3.1668	8.6291	7.6844
469890.41	3766122.80	3.1892	2.1317	1.7893	2.1875	2.1875	2.1875	2.1875	2.1875	2.1875	2.1875
469124.20	3766014.81	3.2544	6.7382	13.7913	16.4818	7.2884	8.2746	4.8240	8.8938	4.5040	3.5232
469899.28	3766280.26	7.8773	2.2513	3.6623	3.5969	2.3987	6.5643	12.7254	3.2050	8.8488	7.0220
469880.06	3766381.34	3.1118	1.8471	4.2890	4.1123	1.8990	8.1472	12.9108	10.5060	5.1835	2.4622
469612.81	3766515.28	3.2517	1.9867	8.4947	7.8039	1.9867	8.4947	13.1170	7.8039	13.1170	7.8039
469121.03	3765996.96	3.2197	7.3686	13.4301	16.2933	8.0368	7.8151	4.6866	5.3378	6.6154	9.2321
469141.92	3765716.89	3.0114	4.2542	5.3040	6.5420	5.9595	3.7343	3.1900	10.1149	3.6799	6.2566
469121.63	3765996.96	3.1262	3.2152	15.0553	15.0553	3.2152	15.0553	3.2152	15.0553	3.2152	15.0553
469117.86	3765979.11	3.0283	8.1290	13.0321	16.0793	8.9541	7.3797	4.5490	5.9682	6.3386	9.0668
469157.61	3766210.90	3.1517	2.7719	14.8356	16.1745	2.8817	12.8159	5.8011	2.9875	8.6429	7.3439
469242.86	3766382.82	2.9114	1.9763	20.1746	22.1682	2.0356	15.4896	6.4709	2.4156	9.9943	5.8455
469139.37	3765866.74	3.1778	16.1711	10.3411	13.8936	19.6099	5.4621	9.8144	7.8175	10.5615	8.1457
469151.62	3766298.80	2.8999	2.1054	17.0188	18.4608	2.1732	14.2810	6.1347	2.4882	9.2603	6.1073
469842.05	3766425.64	4.4036	1.6420	4.6542	4.4382	1.6020	8.6624				

469592.34	3765462.78	4.0012	4.8550	1.7569	1.8485	4.6247	1.9475	2.3270	8.9352	2.1884	3.4358	10.2091
470028.76	3765464.15	5.7806	2.9351	2.9771	2.6524	2.3728	2.2028	2.5022	3.2522	5.5733	5.5563	3.4327
469827.32	3766499.81	3.4878	4.8430	1.3478	1.3787	1.3420	6.3940	7.3396	1.6481	8.0508	3.2774	8.0508
469612.49	3766573.12	2.7672	1.0494	8.5106	7.7831	1.0740	7.0688	6.4488	1.4138	8.7946	2.9558	1.5315
470036.99	3766340.13	5.5528	1.9988	2.8909	2.8649	2.0228	4.8560	7.9471	2.5750	6.0121	5.1206	2.9261
469245.64	3766485.45	2.5800	1.5907	23.5143	5.9783	9.3343	1.6245	4.9545	1.9545	7.2602	1.9451	7.2602
470040.83	3766321.59	5.9555	2.0621	2.8119	2.7893	2.0940	4.6724	7.7804	2.9168	5.8351	5.2644	3.0896
469051.97	3765832.09	2.6026	10.1189	6.7559	8.1017	11.5707	4.1291	3.0941	3.5862	3.7802	5.6880	4.9631
469051.39	3765931.28	2.6486	8.4489	8.0374	7.4583	5.2332	7.1758	3.4031	5.2332	4.4806	4.1669	4.1669
469987.92	3765840.60	4.3589	1.7302	3.3618	3.2482	1.7679	5.5716	8.3102	2.1904	6.7924	4.3228	2.3328
469159.20	3766338.44	2.4995	1.7357	12.1972	12.9641	1.7907	9.1888	4.4976	2.0462	5.5850	4.5422	2.1622
469091.53	3766165.45	2.7849	2.7849	7.70728	7.70728	7.70728	7.70728	4.0725	7.70728	5.7424	5.4576	2.8210
470044.66	3766303.04	6.1977	2.1238	2.7311	2.7396	2.1533	4.4794	3.0820	5.6441	5.3882	2.1269	5.3882
470101.57	3766382.49	4.6677	3.1660	3.0843	1.8648	5.2686	8.1735	2.3814	6.4536	4.5863	2.5302	2.5302
469050.40	3765762.08	2.5208	11.3529	5.9876	7.1080	13.0178	3.7147	2.9013	6.0344	3.4467	5.2658	5.4713
469797.62	3765672.20	9.3021	3.8009	1.6944	1.0083	3.6073	2.4538	3.4238	1.5955	3.7900	4.4540	8.0369
470033.16	3766358.67	5.0005	1.9278	2.9604	2.9206	1.9630	4.9927	7.9848	2.5977	6.1309	4.9016	2.7581
469733.67	3765537.07	6.4559	3.9660	1.7986	1.8653	3.8142	2.2413	2.9370	8.1764	2.6372	4.0797	8.8602
469124.54	3766271.78	2.5511	2.0405	10.9558	11.6699	2.1153	8.7008	4.2357	2.2802	6.2227	4.7452	2.3852
469704.37	3765554.06	5.6562	4.0197	1.7948	1.8639	3.8540	2.1569	7.2587	8.3849	2.7587	3.9048	9.1493
469064.69	3765702.01	2.4600	16.2542	4.6767	5.3173	18.8367	3.1963	2.6586	6.7318	3.0551	4.7594	5.8903
469574.00	3765436.35	3.7816	5.1839	1.7260	1.8366	4.9213	1.9044	2.2525	8.7354	2.1282	3.3320	10.0651
469190.23	3766420.22	2.1387	1.4543	13.3075	14.2118	1.4938	9.4428	6.9266	1.7886	4.8650	4.0133	1.9102
469051.64	3765801.80	2.5585	10.6768	10.6768	10.6768	12.2283	3.9140	2.5884	5.4821	3.6094	5.4587	5.1085
469762.96	3765620.08	7.4193	1.9622	1.7157	1.8133	3.8112	2.3166	3.1127	7.8383	2.7587	4.2161	8.4204
469094.53	3766183.89	2.6004	2.6079	9.9569	10.0102	2.7050	7.8937	4.0719	2.6473	5.7480	2.5400	2.7146
469080.22	3765641.65	2.3963	25.3164	3.6616	4.2335	2.8404	2.4776	6.9990	2.4776	2.7675	4.3493	6.1611
469846.29	3764693.48	33.356	1.3703	4.6515	4.5385	1.4073	6.1996	1.6777	7.7388	3.3427	1.8059	7.7388
469046.16	3765762.37	2.6421	11.9536	2.5491	3.6553	3.6553	3.6553	3.6553	3.6553	3.6553	3.6553	3.6553
469096.99	3765601.01	2.3813	36.0287	3.2679	3.7311	2.6399	2.6399	7.2018	2.6062	4.1179	6.4003	6.4003
470048.62	3766241.52	7.7485	2.3180	2.5037	2.5215	2.3381	3.8916	6.7537	3.6460	5.0648	5.6594	3.8176
469516.05	3765659.18	2.5246	1.1444	11.4025	12.8296	11.4025	7.2861	5.8882	8.2402	5.8882	1.7775	2.0022
469657.08	3765521.05	4.9083	3.9897	1.7811	1.8560	3.9897	2.8469	2.8663	8.4253	2.8663	2.7016	2.7577
470029.33	3766377.22	4.6809	2.8540	3.0428	2.9783	2.8746	5.0860	7.9516	2.4460	6.1977	4.6515	2.5960
470053.52	3766260.42	7.4264	1.2520	2.5427	2.5534	2.7146	4.0304	6.8990	3.4650	5.1585	5.5402	3.6352
469824.91	3765762.20	10.7164	1.6328	1.6328	1.6328	1.6328	2.5007	3.5702	3.5702	3.5702	4.4602	4.4602
469202.19	3766449.81	2.8294	1.4212	14.4250	15.3743	1.4578	9.2650	4.8124	1.7736	6.8950	3.8448	1.9551
469045.90	3765886.21	2.5983	7.1355	7.4907	8.8241	7.8621	4.8251	3.3114	4.4640	4.2011	4.8736	4.8736
469535.31	3765691.96	11.4417	11.2632	1.7041	1.7041	1.7041	1.7041	1.7041	1.7041	1.7041	1.7041	1.7041
469792.25	3765653.09	8.4563	3.7996	1.6666	1.7810	3.6023	2.3800	2.3800	7.4634	2.8656	4.2983	7.9386
469064.45	3765648.29	2.4091	17.5875	4.1899	4.8518	20.4297	3.0505	2.5720	6.6536	2.9285	4.5551	5.8427
470054.44	3766279.78	2.1886	2.1886	2.1886	2.1886	2.1886	2.1886	2.1886	2.1886	2.1886	2.1886	2.1886
470051.89	3766353.54	5.2384	1.9406	2.8403	2.8092	1.9737	4.7529	7.6119	2.6579	5.8305	4.8929	2.8147
469113.54	3766289.99	2.5047	1.9240	10.8533	10.5300	1.9920	8.6246	4.2738	6.1206	4.2738	4.5023	2.2871
470059.51	3766316.65	6.0451	2.0818	2.6915	2.6782	2.0930	4.4179	7.3210	2.9679	5.5098	5.1754	3.1319
469047.92	3765742.62	4.0399	2.6280	14.5402	14.5402	14.5402	14.5402	14.5402	14.5402	14.5402	14.5402	14.5402
469097.53	3766202.09	2.5682	2.4324	10.5047	10.5047	2.5374	7.8069	4.0476	2.5261	5.7177	5.0395	2.5901
469113.76	3765560.37	2.3436	62.4402	2.8853	3.2575	100.1034	2.4423	2.2836	7.2387	2.4384	3.8501	6.5270
469865.21	3766487.47	2.3975	2.3975	2.3975	2.3975	2.3975	2.3975	2.3975	2.3975	2.3975	2.3975	2.3975
469631.75	3765673.23	2.7773	1.0469	8.0026	7.3375	1.0724	7.0805	5.7425	3.8987	2.8250	5.1536	5.1536
470063.33	3766288.20	6.4770	2.1212	2.6129	2.6098	2.1479	4.2313	7.0950	3.1274	5.0222	5.2729	3.2919
469554.38	3766059.02	10.4736	10.4736	10.4736	10.4736	10.4736	10.4736	10.4736	10.4736	10.4736	10.4736	10.4736
469850.84	3765719.10	10.8940	5.5211	1.5516	1.6066	2.4653	3.4071	7.0739	3.5471	3.0241	4.3012	4.3012
469789.42	3766534.88	3.1616	1.2156	4.7984	4.4018	1.2340	5.9867	6.7532	1.7243	7.7234	3.0486	3.8221
469757.60	3765669.97	6.7914	3.8557	1.7555	1.8206	3.7115	2.2431	2.9759	7.6551	2.6520	4.0488	4.8470
469772.38	3766543.15	2.8756	1.2206	4.8561	4.7056	1.2347	6.0561	4.6302	7.7627	1.7128	1.0147	1.0147
469221.03	3766441.96	2.2720	1.5023	17.0437	18.4687	1.5376	8.7994	4.7343	1.9873	6.7767	3.6021	2.0524
469699.01	3765534.95	5.2138	1.8831	1.7013	1.8314	3.7355	2.0815	2.6336	8.0415	2.4019	7.7220	8.7020
469646.79	3765648.04	4.3172	1.4123	1.4123	1.4123	1.4123	1.4123	1.4123	1.4123	1.4123	1.4123	1.4123
469806.45	3766526.62	4.2252	1.4594	4.1829	4.1829	4.1829	5.8784	6.8243	1.7380	7.6038	3.0760	1.8478
470048.08	3766371.98	3.9958	1.8663	2.9198	1.9000	4.3869	2.4839	7.5503	2.5880	4.6319	2.6470	2.6470
469821.55	3765686.10	2.8129	1.6328	2.1897	2.1897	2.1897	2.1897	2.1897	2.1897	2.1897	2.1897	2.1897
469851.02	3766573.35	1.0513	7.5665	6.9493	7.0775	7.0467	7.0467	7.0467	7.0467	7.0467	7.0467	7.0467
469262.60	3766516.98	2.2121	1.4345	24.5127	27.5484	1.4660	8.6342	4.8456	1.8932	6.9997	3.4137	1.9603
469054.38	3766063.99	2.5304	3.8145	8.5676	9.5058	4.0631	6.3132	3.6305	3.2362	4.9448	5.5928	3.1986
469078.98	3765611.59	2.3453	26.3427	3.4598	3.4598	3.4598	3.4598	3.4598	3.4598	3.4598	3.4598	3.4598
469100.52	3766220.30	2.5354	2.2884	10.4285	10.4285	2.3830	7.8755	4.0321	2.4233	5.6970	4.8536	2.4938
469573.85	3766592.18	2.6034	1.0229	9.6910	8.8075	1.0446	6.8813	5.9984	1.3986	8.1329	2.9453	1.5313
469040.41	3765861.14	2.5464	4.7845	4.1657	4.1657	4.1657	4.1657	4.1657	4.1657	4.1657	4.1657	4.1657
469051.41	3766046.14	2.5686	4.0423	8.4386	9.4161	6.1423	3.3219	3.5781	3.3278	4.8495	5.5891	3.2749
469057.75	3766081.84	2.5637	3.5565	8.6366	9.5243	3.7752	6.4655	3.6619	3.1115	5.0221	4.5863	3.0936
469062.21	3765602.82	2.5488	19.4448	4.8620	22.7923	2.5488	2.5488	2.5488	2.5488	2.5488	2.5488	2.5488
469786.40	3765633.98	7.7496	3.7899	1.6532	1.7673	3.6491	2.3079	3.4701	7.0739	3.5471	1.4442	7.8144
469060.92	3766099.69	2.5575	3.3509	8.7252	9.5709	3.4546	6.6172	3.7027	3.0124	5.0886	5.4219	3.0113
469048.24	3766028.29	2.5441	4.2769	8.7907	9.3015	4.5912	5.9682	3.5220	4.2490	4.7475	5.5841	3.1616
469095.75	3765581.29	2.3189	39.0150	3.0488	3.0488	3.0488	3.0488	3.0488	3.0488	3.0488	3.0488	3.0488
469134.53	3766308.19	2.2567	1.8166	10.7319	11.3744	1.8786	8.4277	4.2014	2.0879	6.0144	4.2821	2.1812
469302.57	3766542.96	2.1402	1.4900	52.9402	53.1535	1.5135	8.3189	4.9201	1.8233	7.1071	3.2595	1.8934
469046.68	3765752.19	2.3995	2.3995	2.3995	2.3995	2.3995	2.3995	2.3995	2.3995	2.3995	2.3995	2.3995
470006.72	3766401.15	4.3559	1.7207	3.1990	3.0907	1.7543	5.1496	7.6924	2.			

469741.51	3765543.64	5.4196	3.8682	1.6267	1.6930	3.7033	2.0960	2.6123	6.9972	2.3614	3.5758	7.5310
469826.09	3766013.85	2.4253	3.9434	4.0817	4.3966	4.0817	5.3754	2.2472	4.2442	3.3082	3.1447	8.0019
469887.69	3766231.84	3.1886	3.2743	3.5995	3.5995	3.2289	5.2120	6.3133	1.7031	6.6180	1.8629	7.3881
469635.06	3765449.82	3.8669	4.0911	1.6442	1.7188	3.9020	1.8407	2.2153	1.7877	2.0885	3.1703	8.1561
469056.49	3765663.43	2.2069	2.9067	3.2248	3.4746	25.7875	2.5468	2.2482	6.1163	2.4800	3.8069	5.4862
469041.72	3765664.01	2.1137	3.5984	4.0981	4.0981	4.0981	2.7177	2.1177	3.5266	3.6114	3.9719	8.1811
469081.49	3766223.43	2.3946	2.1501	8.6273	9.1777	6.9836	3.6876	2.2545	5.1170	2.5467	4.3947	2.3215
469802.10	3765669.66	6.8041	3.5441	1.6334	1.7093	3.4119	2.1629	6.5723	2.2507	3.7848	7.0247	8.4022
469213.15	3766154.64	2.0968	15.3967	16.4130	16.4130	16.4130	1.4807	1.4507	3.6797	3.1760	3.2760	1.1307
469022.92	3765995.96	2.4140	4.2726	7.1909	8.0549	4.6074	5.2327	3.1953	3.3081	4.9764	3.1925	2.1925
469539.34	3765394.23	3.1927	3.5052	1.6132	1.7016	5.0024	1.7422	2.0136	7.3611	1.9188	2.9450	8.4022
469965.20	3766161.05	2.0489	3.5082	1.5982	1.6828	4.8538	1.4548	2.5426	4.6588	2.0286	3.4695	8.1462
469658.99	3765463.72	4.1089	4.2786	1.6114	1.6822	4.0813	1.8677	2.2738	7.2660	2.2107	2.2295	7.1937
469712.22	3765510.63	1.5846	4.0331	1.5846	1.6595	1.9628	1.9628	2.4661	7.0527	2.2531	3.4295	7.6392
469045.10	3766130.91	2.4425	2.8880	7.8348	8.4928	3.0442	6.1086	3.4432	2.6785	4.6862	4.7594	2.6844
469015.86	3765820.86	2.3454	7.9208	8.0953	8.0953	8.0953	4.1377	4.1346	3.5270	2.8402	3.7706	7.9407
469893.34	3765727.79	10.1650	3.2704	1.4722	3.1665	2.2303	3.3456	6.1833	2.7815	3.8239	6.4992	6.4992
469018.78	3765973.21	2.3993	4.5716	6.9928	7.8748	4.3659	5.0429	3.1311	3.4152	4.0998	4.9372	3.2724
469899.22	3766403.85	2.3455	4.2683	4.0567	3.8005	1.3993	4.9639	6.4688	1.7267	6.2393	3.0721	8.1833
469075.26	3765562.79	2.1731	32.0544	2.8214	3.1777	40.0856	2.3695	2.1515	6.1907	2.3345	3.9930	5.6025
469829.39	3765642.67	7.6386	3.4635	1.5417	1.6441	3.3394	2.2217	3.0288	6.2792	2.6438	3.8324	6.6651
469027.43	3765724.14	2.2974	10.8084	4.9408	5.6996	12.3478	2.1437	2.5426	6.0976	2.9480	4.4184	8.1462
469168.74	3766410.26	2.2553	4.1452	11.2565	11.8832	1.4555	7.6553	4.0105	1.7233	5.7696	5.4478	1.8243
469876.62	3766517.73	3.2262	1.2175	3.7142	3.4557	2.2326	5.0409	6.2406	1.7053	6.3870	1.8111	1.8111
469084.49	3766241.64	2.3429	2.0310	8.5755	9.0946	2.1116	6.9492	1.6627	2.1643	5.0785	4.2358	2.2358
469115.50	3766311.39	2.3251	1.7101	9.8139	9.8139	9.8139	7.8376	3.7959	1.9419	5.3107	3.8912	2.0099
469145.67	3766374.18	2.2794	1.5090	10.2642	10.8090	1.7546	3.9127	1.7980	5.5521	3.5946	1.8880	1.8880
469682.92	3765477.62	4.1273	4.1658	13.768	1.6511	3.9652	1.8863	3.2323	7.0337	2.1427	3.2648	7.0538
469013.14	3765804.22	2.2190	7.8054	5.6024	5.6024	5.6024	8.7246	2.3497	3.7240	4.3973	4.7214	6.0345
470032.83	3766445.76	3.6924	1.5635	3.0104	3.0104	1.5949	4.8082	1.9755	6.6844	5.6335	3.6314	2.6314
469858.68	3765675.67	8.5067	3.3271	1.4758	1.5264	3.2140	2.2493	3.1418	6.0709	2.7125	3.8375	6.3117
469897.98	3765708.38	2.2503	1.2544	1.9203	1.9203	1.9203	3.4580	2.2727	3.2785	3.2785	3.8000	6.3644
470029.02	3766464.21	3.5105	1.5168	3.2029	3.0762	1.5454	4.9031	6.6048	1.8842	5.7721	5.5296	6.9889
469794.73	3765590.55	6.2655	3.4222	1.6478	1.7006	3.2983	2.0974	2.7786	6.4356	2.4673	3.6460	6.8859
469040.48	3765634.35	2.1180	17.6796	3.3485	3.7901	20.3499	2.6028	2.2544	5.8026	2.5100	3.8054	5.8054
469514.15	3765378.61	3.0227	1.6845	1.5849	1.5849	1.5849	1.7077	3.3486	1.8705	3.8705	3.8608	3.8608
469979.73	3766531.71	2.9557	1.3199	3.6589	3.4883	1.3567	5.5078	6.2837	1.5529	6.2380	3.0948	1.6197
469735.15	3765534.53	5.0084	3.8618	1.5185	1.6192	3.9598	1.9708	2.5037	6.7286	2.2708	3.4293	7.2543
469057.25	3765583.73	2.1543	23.5489	3.0815	3.0815	3.0815	2.4057	2.1978	2.1978	2.1978	3.6379	3.6379
469013.29	3765937.25	2.3553	4.8545	6.6411	7.5069	5.2924	4.7986	3.0272	3.4429	3.9423	4.7734	3.2840
469011.90	3765784.50	2.2908	2.8670	5.4232	6.2531	9.2520	3.5524	2.6606	4.4975	3.2120	4.6036	4.1044
469918.34	3766481.18	3.3702	3.3620	10.0769	10.0769	10.0769	4.7677	3.8028	3.6582	6.0582	3.0571	8.1735
469092.03	3765522.15	2.1432	49.1936	2.5515	2.8463	71.2380	2.0588	2.0588	6.1658	2.1982	3.8222	6.6554
469824.03	3765623.56	7.0502	3.4410	1.5494	1.6392	3.3176	2.1503	2.9107	1.6163	2.5544	3.7120	6.5636
469087.49	3766209.84	2.1287	1.9189	8.5047	8.9939	1.9922	6.8834	1.6276	2.0751	5.0247	4.0719	2.1500
470017.17	3766460.93	3.4857	3.1400	3.4857	3.1495	3.4969	3.1495	3.1495	1.5616	3.6874	4.1401	6.1401
469026.19	3765704.43	2.2588	11.1482	3.7008	5.4008	12.6153	3.0085	2.4664	5.0452	2.8352	4.2518	4.5420
469190.03	3766500.85	2.0569	1.2995	12.1239	12.8080	1.3315	7.3416	4.1580	1.7072	5.7340	3.2777	1.9094
469820.47	3765658.27	4.1862	1.1731	1.5862	1.5862	1.5862	1.5151	1.5151	1.6211	3.4544	1.7756	4.7140
469907.79	3765902.18	2.3223	5.3611	6.3259	7.1866	5.8814	4.5297	2.9360	3.6136	3.7703	4.6892	3.4001
469893.75	3765668.39	2.8283	1.1680	4.2841	3.9715	1.1804	5.2250	5.6906	1.6085	6.4527	2.7493	1.6995
469767.86	3765451.50	2.2986	3.1990	1.9952	1.9952	1.9952	3.8095	3.8095	6.7743	2.1683	3.2888	7.2276
469296.88	3765679.53	2.0647	1.2486	30.7480	37.2358	1.2720	6.9978	4.3902	1.6885	4.9068	1.7506	6.1460
469837.20	3765550.16	2.2590	3.1772	3.9431	3.6698	1.1899	5.0933	5.8199	1.6328	6.3394	2.7978	1.7273
469053.47	3766171.95	2.3483	1.4023	7.7748	8.3229	2.5151	6.2295	3.4275	2.2642	4.6901	4.3887	2.4034
469787.02	3765621.51	2.1099	1.4026	4.6529	4.1357	1.9517	5.9637	1.4649	3.5037	3.4649	4.7215	6.7215
469050.48	3766153.74	2.3619	2.5030	7.7009	8.2704	2.6258	6.1391	3.3952	2.4107	4.6437	4.4396	2.4417
469629.70	3765430.73	3.6528	1.4020	1.5936	1.6680	1.6680	1.7802	1.7802	6.9712	1.9912	3.0303	7.6840
469882.61	3765680.57	2.1514	1.2211	1.4114	1.4114	1.4114	2.1151	2.1151	3.1151	1.6791	3.7130	1.6791
469010.66	3765764.79	2.2686	8.7002	5.1887	5.9713	4.0640	3.3066	2.5887	4.5729	3.0857	4.4650	4.1592
469695.77	3765416.81	3.4518	4.2734	1.9786	1.6732	4.0640	1.7512	2.0700	6.9674	1.9481	2.9644	7.7305
469237.29	3765645.48	1.3524	13.5339	10.0769	10.0769	10.0769	1.8328	1.8328	7.1430	1.8328	3.0731	1.8328
469002.20	3765687.11	2.2913	6.0115	5.9744	6.8128	6.3008	4.2220	2.8303	3.8442	3.5536	4.5992	5.8099
469960.76	3766338.02	2.9389	1.2855	3.7760	3.5793	1.3201	5.4176	6.0958	1.5083	6.1804	2.9844	1.6039
469074.02	3765543.07	2.1172	34.0370	2.6558	2.9799	43.2794	2.2484	2.0769	5.9619	2.2398	3.4266	5.4327
469853.32	3765565.36	2.3211	1.6887	1.5887	1.5887	1.5887	1.5887	1.5887	1.5887	1.5887	2.7355	2.7355
469653.63	3765444.61	3.8069	4.2737	1.5585	1.6325	1.8063	4.0634	2.6209	6.8809	2.0313	3.0874	7.5361
469975.58	3766503.36	2.7422	1.2630	3.7009	3.5288	1.3004	5.5485	6.0238	1.4258	6.1908	2.9579	1.5171
469917.27	3765711.69	2.1896	1.1896	1.1896	1.1896	1.1896	1.1896	1.1896	1.1896	1.1896	1.6128	1.6128
469173.81	3766437.30	2.1816	1.3445	11.5575	11.7684	1.3813	2.7409	3.9087	1.6485	5.6086	3.2755	1.7453
469994.84	3766544.10	2.7383	1.2918	3.5720	3.4145	1.3290	5.4578	6.0753	1.4676	6.0886	3.0298	1.5601
469036.24	3765504.64	2.1243	17.9352	3.1776	3.7581	2.1243	2.1243	2.1243	2.1243	2.1243	2.1243	2.1243
469056.47	3766190.15	2.1272	2.2727	3.7963	3.7963	3.7963	6.2596	6.2596	2.2802	3.6847	4.2731	1.3626
469998.67	3766255.26	2.9864	1.3411	3.5178	3.3556	1.3761	5.2001	1.6196	1.5759	5.9470	1.1081	1.6709
469702.08	3765534.83	5.2746	1.0990	1.5162	1.4033	1.5437	1.9754	2.5388	6.4065	2.2881	3.4170	1.8015
469024.95	3765664.79	2.1189	11.5433	1.5403	1.5403	1.5403	1.5403	1.5403	1.5403	1.5403	1.5403	1.5403
469022.47	3765664.28	2.1137	13.5462	3.6121	4.0072	2.6521	2.6521	2.6521	5.4737	2.5328	3.7947	4.9064
469961.29	3766449.97	3.7792	1.3295	3.0005	2.8426	1.3504	4.4308	6.2274	1.8511	2.6230	3.1831	1.9721
469090.48	3766278.05	2.1824	8.4138	1.8138	1.8138	1.8138	1.8138	1.8138	1.8138	1.8138	1.8138	1.8138
469818.67	3765604.45	6.5098	3.8824	1.5918	1.6455	3.2571	2.0904	2.7974	6.0515	2.4679	3.5914	6.4526

46978.65	3765533.22	5.1195	3.5034	1.3877	1.4882	3.3678	1.9165	2.4616	5.9008	2.2164	3.2646	6.3180
46988.74	3765535.15	4.5287	3.7482	5.2272	5.2559	5.1423	4.2897	2.5814	2.2570	3.5533	3.0928	
46988.08	3765547.76	1.4287	1.4485	3.5056	3.3140	1.1603	4.6035	5.4663	1.6012	5.6772	1.6592	
46900.23	3765546.49	2.0504	1.1589	3.7025	4.0019	12.9475	2.5840	2.1825	5.0786	2.4536	4.5745	
469225.21	3765560.85	1.9499	12.780	14.3729	15.5213	1.3607	6.4885	3.9452	1.0988	5.3825	2.9149	1.7478
469847.23	3765559.24	6.2159	3.2233	1.5284	2.0874	1.5870	3.1094	2.6996	2.3792	5.5946	5.4113	
469126.65	3765737.39	2.1666	1.4345	8.8889	9.3123	1.4784	6.6543	3.5569	1.6841	4.9285	3.3149	1.7702
469096.13	3765453.30	3.9899	1.8873	1.4816	1.5521	3.7008	1.7802	2.1785	6.2159	2.0113	3.0135	6.7070
469026.77	3765555.24	2.1322	2.7336	1.3449	2.7336	2.1322	2.9901	2.2901	2.3901	2.2294	3.3454	
469893.25	3765870.10	2.1770	5.2689	5.5608	6.2619	5.7684	4.0412	2.7003	6.3595	3.3986	4.2339	6.2081
469266.66	3765657.80	1.9617	1.1657	18.8034	20.9842	1.2010	6.7313	4.0240	1.6411	5.4758	2.8170	1.6957
469089.55	3765540.72	50.5792	1.6581	95.9943	2.0183	2.0183	2.0183	2.0183	1.3117	5.6386	2.0272	5.2435
469749.35	3765500.21	4.6174	3.6161	1.1946	1.5004	3.4614	1.8559	2.3379	5.9973	2.3379	3.1551	6.4238
469937.84	3765563.45	2.7759	1.1979	3.9311	3.6993	1.2291	5.2002	1.4288	5.6816	2.7881	1.5164	
469181.53	3765653.66	1.9354	1.2143	10.7207	11.2690	1.2434	5.6522	1.8709	1.5200	5.2425	1.0439	1.6937
469550.87	3765366.79	2.9481	4.6865	1.5245	1.6031	4.4321	1.6530	1.8832	5.4532	1.7929	2.7019	
469071.54	3765503.64	2.0175	38.2938	2.3962	50.5945	2.0804	1.9426	5.5232	2.0725	2.7075	1.3345	5.0998
469999.01	3765438.45	3.7964	1.3143	2.7299	2.5971	1.3268	4.0355	5.7812	1.8463	5.0588	3.1016	1.9637
470006.14	3765574.88	2.4058	2.2067	3.3578	1.2427	5.1581	5.4532	1.2465	5.6588	2.7782	1.4214	
469004.47	3765666.21	2.0907	10.7990	4.0738	4.5929	12.0945	2.6885	2.2453	4.7099	2.5421	3.7507	4.2807
469866.53	3765632.24	6.8588	3.1680	1.4263	1.5217	1.0559	2.0586	2.8013	5.3651	2.4439	3.4359	5.6800
469987.17	3765681.18	2.9291	1.1789	3.6375	3.4668	1.2146	5.2267	2.3829	1.3117	5.7094	2.7008	1.2932
469888.84	3765736.56	8.1037	8.2000	4.5431	5.1457	9.2422	3.0432	2.3559	4.2625	2.7830	1.9629	3.8875
469949.56	3765606.71	3.1029	1.1998	3.1175	2.9281	1.2132	4.2871	1.6722	5.5580	1.6722	2.8276	1.7728
469720.06	3765487.20	4.1622	1.7295	1.4346	1.5208	3.5529	1.7915	2.2149	6.0151	2.0333	1.0287	4.6480
469972.40	3766481.70	3.3866	1.2292	2.9204	2.7648	1.2359	4.7005	1.6209	1.7302	5.1965	2.9166	1.8366
469031.45	3766156.87	2.2280	2.3085	6.8628	7.3345	5.2400	5.5106	3.1217	2.2148	4.2113	2.3584	2.2358
470014.00	3766451.39	3.6556	1.5200	3.2056	3.0682	1.5501	4.1729	5.4084	1.9299	4.9609	1.0820	2.0150
469053.53	3765534.56	1.5993	28.1946	3.1863	3.1863	2.1863	3.1863	1.1863	2.1863	1.1863	1.1778	1.8188
469001.99	3765626.77	2.0100	12.3932	3.2675	3.4634	1.8431	2.4831	1.9960	4.9960	2.3671	3.4888	4.5160
469995.15	3766457.10	3.6238	1.4690	3.2661	3.1093	1.4966	4.0262	5.6321	1.8855	5.2308	2.9937	1.9092
469018.76	3765586.13	1.5858	15.8588	2.0054	17.1932	1.4973	2.0452	2.0452	2.0452	2.3660	2.6600	4.2600
469614.98	3765392.49	3.2795	4.2763	1.4868	1.5611	1.6683	1.0554	1.9674	1.8502	1.8502	1.7773	3.7998
469855.82	3765665.25	7.4883	3.0556	1.3656	1.4104	2.9518	2.0865	2.8877	5.1609	2.4949	3.4274	5.4525
469647.91	3765406.39	3.4413	3.4534	1.4734	1.4348	3.9477	1.6903	2.0126	1.8834	2.8240	1.7399	
469801.58	3765712.11	5.2904	1.3711	1.3703	1.3703	1.2986	1.4152	1.6202	2.2232	2.2232	2.2232	1.6555
469668.17	3765687.66	2.4632	1.1513	3.7694	3.5802	1.1861	5.2441	5.2232	1.2867	5.7087	2.6203	1.3659
469831.87	3765438.13	5.8055	3.2366	1.4963	1.5463	1.9655	1.9655	2.5983	5.4736	2.3015	3.3043	5.8270
469503.45	3765346.35	2.1739	1.5274	1.6913	1.5913	1.6913	1.5913	1.6913	1.8115	1.8115	1.7424	6.0210
469037.44	3766193.28	2.2004	2.1206	6.9366	7.3695	2.2150	5.6157	1.3130	1.2240	4.2556	3.8731	2.1504
469851.34	3765658.76	2.7420	1.1036	4.5081	4.1222	1.1185	4.4205	1.5307	1.5191	5.6181	2.5773	1.6148
469034.44	3766175.76	2.4688	1.2123	2.4397	2.4397	5.4325	2.4397	5.4325	2.4397	5.4325	2.1771	
469773.29	3765554.11	4.7912	4.5450	1.3520	1.4219	3.3143	1.8956	2.3659	5.7941	2.1392	3.1437	6.1247
470021.66	3766414.30	4.0263	1.3914	2.6355	2.4945	1.4088	3.8423	1.9010	4.8212	1.9010	1.5133	2.0222
469666.84	3765430.29	3.5986	3.9946	1.4406	1.5316	3.7910	1.7086	2.0543	6.0883	1.9126	2.8606	6.9796
469155.06	3766541.91	1.0259	1.1764	10.8189	11.5011	6.3849	1.2023	6.3849	1.2023	6.3849	1.1569	1.9271
469071.45	3766281.18	1.7177	7.4609	7.8421	1.7808	3.2860	1.6863	1.8618	4.7926	1.8618	3.5793	1.9271
469595.05	3765378.60	3.1064	4.1901	1.5012	1.5738	3.9787	1.6405	1.9158	6.1467	1.9158	2.7151	6.7706
469897.70	3765706.80	2.8712	4.8238	2.8712	2.8712	2.8712	2.8712	2.8712	2.8712	2.8712	2.8712	2.8712
469861.16	3765613.13	6.3757	3.1355	1.4564	1.5300	2.0245	2.0061	1.3803	5.2787	1.3803	3.3408	5.5981
469897.85	3766573.75	2.7532	1.1137	3.7544	3.4769	1.1254	4.5400	1.5425	1.5420	5.5231	2.5886	1.6274
469891.28	3766084.41	2.1844	3.1847	3.6395	3.6395	3.6395	3.6395	3.6395	3.6395	3.6395	4.1162	3.9800
469944.44	3766056.26	2.1858	6.9949	6.2108	6.7481	3.2218	4.8004	2.9805	2.5787	4.9664	2.5422	1.5422
469154.86	3766480.85	2.0804	1.2773	2.0804	1.3125	6.4024	3.5412	1.5549	4.9011	3.0126	1.6381	
469035.53	3766545.49	1.9751	22.1597	2.8005	2.9015	26.0049	2.1978	1.9772	5.1930	2.1451	3.2050	4.7471
469865.22	3765662.42	2.0079	9.8176	4.3104	4.3104	10.9005	2.6149	1.1732	1.4508	1.5791	1.5791	1.5791
469040.44	3766521.49	1.8105	2.2023	6.9300	7.3409	2.1067	5.6283	1.3103	2.0494	4.2507	1.7819	2.0916
469020.59	3766538.16	2.1905	1.1946	11.0992	12.3827	1.2438	1.7684	1.6817	5.0675	2.8657	1.7302	
469741.99	3766541.99	4.1311	1.3705	1.3705	1.3705	1.3705	1.3705	1.3705	1.3705	1.3705	1.3705	1.3705
469834.83	3765689.77	2.7038	1.4978	8.0062	8.3775	1.5360	6.2448	1.3719	1.6990	4.6246	3.3172	1.7771
469102.14	3766348.07	2.1437	1.8858	2.8839	6.7935	3.4738	4.7938	1.4738	4.7938	2.9230	4.0565	4.7500
469897.61	3766074.11	6.2894	3.0064	6.0334	6.6040	3.5240	4.6214	2.8415	2.6816	3.7105	4.0941	2.6224
469886.11	3766020.56	2.1773	3.8006	6.0334	6.6040	3.5240	4.6214	2.8415	2.6816	3.7105	4.0941	2.6224
469877.76	3765835.03	2.1114	5.2170	5.2191	5.8839	5.7178	3.9387	2.6290	3.3009	3.2986	4.0320	3.0972
469698.77	3765434.91	3.7509	3.8320	1.4405	1.5155	3.6421	1.7241	2.0934	5.9396	1.9387	2.8886	6.4028
469864.46	3765667.13	4.0428	4.8462	4.0776	4.5807	4.0776	4.5807	4.0776	4.5807	4.0776	4.5807	4.0776
470017.83	3766432.84	3.8159	1.3628	2.7735	1.3784	3.8540	1.8540	1.8540	4.8154	1.8540	1.9550	
469968.52	3766500.47	3.2374	1.2331	3.1528	2.8855	1.2497	4.1302	5.4284	1.6711	5.1150	2.8125	1.7717
469955.20	3766475.75	2.4378	2.4378	2.4378	2.4378	2.4378	2.4378	2.4378	2.4378	2.4378	2.4378	2.4378
469900.78	3766091.96	2.1796	2.7261	6.2831	6.7855	2.8811	4.9384	2.4207	3.8814	4.0059	2.4062	
469890.46	3765646.14	6.9641	3.0305	1.3648	1.4075	2.9258	2.0368	2.7901	5.0669	2.4226	3.4444	5.3354
469871.65	3765806.45	2.0931	2.5636	1.5636	1.5636	1.5636	1.5636	1.5636	1.5636	1.5636	1.5636	1.5636
469945.44	3766525.62	3.0568	1.1852	3.1098	3.0561	1.2028	1.3028	4.2149	5.3122	1.6158	2.7196	1.7108
469871.41	3765786.92	2.0720	6.0153	4.9021	5.5173	6.6195	3.6177	2.5254	3.5483	1.0992	1.9374	2.4931
469000.75	3765667.06	1.7278	12.584	3.1907	3.4785	14.0218	3.2865	2.0581	4.8921	2.2833	3.1995	3.4804
469945.12	3766094.30	1.2521	3.2521	3.2521	3.2521	3.2521	3.2521	3.2521	3.2521	3.2521	3.2521	3.2521
469871.27	3765767.21	2.0551	6.5166	4.7323	5.5235	7.8055	3.4548	2.4646	3.7199	2.9912	1.8904	3.4300
469109.09	3766623.02	1.9168	1.2585	40.2918	51.6331	1.2794	5.8734	1.9471	1.5606	5.2851	2.6404	1.6450
469252.40	3766563.50	2.1172	2.1147	3.6969	3.6969	3.6969	3.6969	3.6969	3.6969	3.6969	3.6969	3.6969
469884.94	3766002.71	2.1576	1.3916	5.9095	6.4812	3.6295	4.5261	2.7985	2.6936	3.6452	4.0471	2.6245
469993.28	3766539.70	2.8417	3.2219	3.6138	3.5655	1.4159	4.3444	1.5472	1.5			

469874.37	3765588.81	5.6567	2.9539	14304	1.4737	2.8487	1.8905	2.5136	4.8266	2.2139	3.0880	5.1129
469894.73	3765648.81	5.6593	3.0538	14304	1.4737	2.8487	1.8905	2.5136	4.8266	2.2139	3.0880	5.1129
469912.16	3766643.10	1.8445	1.2771	41.4755	33.7703	1.2565	5.4008	3.2721	1.5006	4.9086	3.2667	5.5521
469979.51	3766682.27	2.2006	1.0758	3.6899	3.5033	1.1087	4.8781	4.6276	1.1901	5.2044	3.2929	1.2599
469916.48	3766481.16	1.5935	1.1644	9.3447	9.5647	1.1944	5.7120	3.3428	1.4387	4.8375	2.7146	1.5119
469952.92	3766768.42	1.5918	1.4926	1.9610	3.2044	1.2390	5.3580	3.3773	1.3531	4.8406	3.1107	1.8609
469977.87	3766630.56	1.8406	1.0383	17.5170	19.6773	1.0511	5.6485	3.6631	1.4977	4.6078	2.5464	1.5685
470002.50	3766507.01	3.1129	1.3494	3.3147	3.1781	1.1782	3.7738	4.9401	1.6758	4.6129	2.6630	1.7417
470015.41	3766178.21	2.0513	3.1745	3.1109	3.1745	1.2009	5.2045	2.1440	1.9983	4.8415	3.1511	2.1312
469865.97	3765668.63	1.9318	8.6381	3.7539	4.1820	5.9250	2.0993	4.6782	2.3774	4.4047	3.7645	
469872.29	3766041.78	2.0676	2.8855	5.5757	6.0425	3.0633	4.3626	2.6888	2.4147	3.4929	3.7296	2.3727
469876.79	3765740.79	1.9549	3.2079	1.9569	2.1028	3.4064	1.8096	2.2149	1.9067	4.2061	5.4024	
469015.04	3765326.58	1.8689	19.2238	2.4568	2.7198	22.1138	2.0786	1.8703	4.7175	2.0234	3.9770	4.3428
469632.18	3763368.17	3.0830	4.0173	1.4608	3.8009	1.5842	1.8624	5.9492	1.7508	2.5904	3.5906	
46951.68	3765748.70	1.5461	6.0306	4.3357	4.8697	6.6071	3.2413	2.3120	3.4476	2.8083	3.5940	1.9199
469656.11	3765382.07	3.1164	3.8643	1.9843	1.4525	1.6015	1.6026	1.4604	1.7798	2.6276	5.5079	
468955.40	3765807.85	1.9121	4.8152	4.6958	5.9718	3.4386	4.2926	2.6605	3.0295	3.0811	3.6845	2.8480
468969.12	3766023.93	2.0618	2.9905	5.5497	5.9718	3.4386	4.2926	2.6605	3.0295	3.4471	3.7185	2.3993
468954.16	3765788.12	1.9175	5.5041	4.5968	5.1225	5.5234	3.5949	2.4582	3.1036	3.0258	3.6671	
468975.46	3766059.63	2.0673	2.7477	5.6169	6.0866	2.9121	4.4223	2.7034	3.2480	3.5229	3.6986	2.3153
469018.41	3766196.42	2.0873	1.9692	6.1938	6.5558	2.0556	5.0256	2.8918	1.9519	3.8521	3.4833	1.9777
469081.13	3765315.28	2.0402	1.4274	7.1141	7.4204	1.4737	5.5391	3.1135	1.6127	4.2068	3.0880	1.6802
469202.07	3766624.28	1.8258	1.0351	14.7658	16.1575	1.0562	5.6516	3.6093	1.4968	4.7652	3.5556	1.5747
469680.04	3763395.97	3.3105	3.6946	1.1372	1.4390	3.5077	1.6186	1.9374	5.4001	1.8042	2.6582	5.8062
469815.78	3765532.80	4.7896	1.1357	1.2546	1.3025	3.0013	1.8050	2.3176	4.6809	2.0808	2.9860	5.3805
469802.44	3765728.98	1.9256	4.9077	4.6818	7.0126	3.1116	2.7771	1.5445	2.7174	3.5435	3.2745	
469757.20	3765456.78	3.9721	3.3283	1.3827	1.2825	3.1852	1.7005	2.1080	5.2066	1.9275	2.8074	5.5367
469879.62	3766077.48	2.0642	2.6113	5.6446	6.0792	2.7612	4.4734	2.7130	2.2776	3.5450	3.6542	2.2537
469896.26	3765850.26	1.9458	11.3603	2.1408	2.3167	2.1472	3.6071	2.1466	2.1466	2.1466	4.1087	1.9819
469200.05	3765689.71	1.7990	1.0985	10.1876	10.7050	1.1229	5.4950	3.4831	1.5517	4.5922	2.6418	1.6253
469896.49	3765629.19	2.0659	9.4514	3.1383	3.5608	10.4023	2.3583	1.9905	4.3528	2.2283	3.1907	3.9655
469896.95	3765608.06	1.8511	3.0683	5.2925	5.7278	3.2728	3.4705	2.2424	2.4624	3.3951	3.6773	2.4023
469243.57	3766618.01	1.8089	1.0688	13.1295	14.2221	1.0862	5.4218	1.5278	3.5524	1.5677	3.5803	1.5627
469703.97	3765409.87	3.4839	3.5520	1.3521	1.4218	3.3776	1.6319	1.9714	5.3015	1.8267	2.6811	5.6732
469879.03	3765547.91	1.8451	15.9402	2.5423	2.8225	17.9878	2.1200	1.8796	4.5578	2.0478	2.9884	4.1845
469605.94	3765303.05	2.9090	1.4669	1.9898	3.4566	3.9401	1.9488	1.7044	2.9852	3.7044	3.5188	1.9808
469607.82	3765444.49	1.8067	48.5466	2.0543	2.2559	69.9961	1.8552	1.7563	1.8482	2.9892	2.7439	4.5645
469879.76	3766606.43	2.5448	1.0455	4.1007	3.6782	4.1246	4.5425	1.4442	1.9046	2.8824	1.5209	1.5609
469896.79	3766095.31	2.9578	5.6578	2.4034	2.6091	5.6091	4.5115	2.7141	3.5563	3.5804	3.5804	1.1852
468949.20	3765709.27	1.9508	6.8212	4.0186	4.4659	7.4771	2.9521	2.2036	3.6457	2.5876	3.4506	3.3576
469492.74	3765312.14	2.5007	5.1149	1.4317	1.5098	4.8058	1.5070	1.6944	5.4144	1.6293	2.4159	5.9349
469897.28	3765701.79	1.9573	3.1055	1.4693	1.4693	1.4693	1.4693	1.4693	4.8537	2.3968	3.2968	1.5239
469049.82	3765465.42	1.8120	33.4047	2.1276	2.3468	41.4604	1.9023	1.7759	4.7737	1.8827	2.7852	4.4547
469226.43	3766611.74	1.7909	1.1247	11.8129	12.6181	1.1543	5.3749	3.4910	1.5413	4.5923	2.5665	1.5847
470021.39	3766501.10	3.1292	1.3558	3.1991	3.0412	1.3828	3.6444	4.8037	1.7019	4.4301	2.6402	1.7518
469861.62	3765981.27	1.9258	3.1765	3.2768	3.2768	3.2768	3.2768	3.2768	1.4779	3.2051	3.6179	1.6179
469031.81	3765486.34	1.8405	25.2608	2.2252	2.4567	30.2098	1.9526	1.7966	4.6822	1.9191	2.8277	4.7434
468994.96	3766113.18	2.0513	2.3556	5.6703	6.0683	2.4798	4.5467	2.7188	2.1371	3.5690	3.5358	2.1286
469727.91	3765423.77	1.9157	1.2415	2.9156	3.1612	1.6122	1.6122	1.6122	1.6122	1.6122	1.6122	1.6122
469101.17	3766408.84	1.9910	1.2752	7.4644	7.7676	1.7676	1.3128	1.5577	1.4919	4.2340	2.8618	1.5648
469892.23	3766664.93	2.5129	1.0488	4.4840	4.1625	1.0729	4.1603	4.4923	1.3257	4.9336	2.3610	1.4310
469557.68	3765237.64	1.9053	1.4853	1.4853	1.4853	1.4853	1.4853	1.4853	1.4853	1.4853	1.4853	1.4853
469845.14	3765706.06	1.9717	4.8024	4.8024	4.8024	4.8024	4.8024	4.8024	2.4664	2.8125	3.5831	1.9717
469861.13	3765470.68	1.4048	1.1632	1.2422	1.2915	3.0183	1.7050	2.1326	4.9451	1.9399	2.8025	5.3228
469898.13	3766113.01	2.0748	2.2539	5.8950	6.0775	2.3802	4.5827	2.7278	2.0888	3.5850	3.4929	2.0888
469896.13	3765946.26	1.9087	3.8811	5.0838	5.0838	5.0838	5.0838	5.0838	1.5117	2.5117	1.5793	1.5793
468962.25	3765609.48	1.8123	3.8895	3.0493	3.2906	3.2906	2.2734	1.9376	4.2810	2.1543	3.0864	3.9119
469011.80	3765507.27	1.8289	19.8747	2.3457	22.9638	2.0013	4.0271	1.8144	4.5717	1.9530	2.8625	1.8289
469994.71	3766601.29	1.8020	1.0937	1.4080	1.4080	1.4080	1.4080	1.4080	1.1680	1.9711	1.3219	1.9711
468979.02	3765568.84	1.8229	12.9129	2.6656	2.9512	14.3393	2.1593	1.8848	4.3886	2.0696	2.9930	4.0246
468959.63	3765911.13	1.9377	3.6382	4.9255	5.4088	3.9193	3.8842	2.5008	2.6200	3.1720	3.5570	2.5141
469801.02	3765503.63	1.8997	1.0936	1.3826	1.3826	1.3826	1.3826	1.3826	2.2134	1.9551	2.0133	1.9861
469847.86	3765689.55	1.8946	7.1497	3.8536	4.2778	7.8380	2.7187	2.0844	3.6896	2.4574	3.3754	3.3926
469751.84	3765437.67	3.7458	3.2782	1.2669	1.3615	3.1319	1.6510	2.0306	5.0272	1.8629	2.7038	5.3396
469650.75	3765382.96	3.0485	3.7754	1.3481	1.4146	3.1742	1.5530	1.8305	5.1851	1.7189	2.5207	5.5907
469831.65	3765841.05	1.9783	4.2784	4.2784	4.2784	4.2784	4.2784	4.2784	2.7000	2.8900	2.5024	1.9783
468996.79	3765528.19	1.8089	16.2350	2.4349	2.6900	18.3645	2.0429	1.8249	4.4341	1.8949	2.8796	4.0887
469297.13	3766656.93	1.7869	1.1147	22.7337	26.5096	1.1325	5.0806	3.5285	1.4593	4.5943	2.4171	1.5064
469829.72	3765536.70	4.5188	1.0536	1.2618	1.2618	1.2618	1.2618	1.2618	1.2618	1.2618	1.2618	1.2618
469441.58	3765292.25	2.3423	5.9712	1.1217	1.5002	1.5002	1.5002	1.5002	5.2185	1.5880	2.5889	5.6839
469674.68	3765378.86	3.1718	1.6256	1.1394	1.4045	3.4375	1.5691	1.8658	5.1431	1.7419	2.5518	5.5216
469086.82	3765381.76	1.9319	1.1312	1.9319	1.9319	1.9319	1.9319	1.9319	1.9319	1.9319	1.9319	1.9319
469109.94	3765674.24	1.7752	1.0559	8.1776	8.4987	1.0803	5.3783	3.3732	1.3147	4.4221	2.6528	4.4107
469049.43	3766261.11	1.9018	6.1114	6.6154	1.6487	5.0782	1.8457	1.6787	1.6787	1.6787	1.6787	1.6787
469098.61	3765390.76	1.2757	1.4829	1.1222	1.1880	3.3095	1.5628	1.8998	5.0098	1.7643	2.5763	1.7210
469151.88	3766106.96	1.8170	8.1287	8.1287	8.1287	8.1287	8.1287	8.1287	1.3476	1.3476	1.3476	1.3476
469511.10	3765306.23	2.4851	4.7771	1.4013	1.4749	4.4880	1.4809	1.6706	5.1897	1.6026	2.3629	5.6586
468961.01	3765389.76	1.9815	10.2840	2.8029	3.0964	11.3171	2.1920	1.8856	4.2010	2.0846	2.9837	1.9815
468936.15	3765389.76	1.9815	10.2840	2.8029	3.0964	11.3171	2.1920	1.8856	4.2010	2.0846	2.9837	1.9815
468933.67	3765769.63	1.4780	5.0281	4.2480	4.7056	5.4730	3.2675	2.2888	3.6098			

488916.90	3765810.27	1.7445	4.0625	4.1508	4.5561	4.3892	3.3088	2.2615	2.6582	2.7752	3.2278	2.5144
488914.42	3765770.34	1.7510	4.4612	4.4059	4.4078	4.4324	3.1702	2.2187	2.6887	2.7021	3.2080	2.5157
488965.97	376615.55	2.1483	2.1414	5.0937	5.4233	2.2507	4.1382	2.6028	1.9448	2.4261	1.9339	
489927.99	376661.49	2.4058	1.0118	3.7484	3.3789	1.0270	3.6600	4.0762	1.3750	4.2930	2.2233	1.4449
489165.37	376660.24	1.6879	1.0222	7.5725	7.8336	1.0553	4.8739	3.1534	1.2895	4.0700	2.4738	1.4084
488915.66	376570.55	1.7242	4.1861	4.0701	4.0701	4.2551	3.2699	2.2482	2.7467	2.6827	2.7136	
488911.19	3765751.12	1.7792	4.6793	3.9258	4.3213	5.0723	3.0912	2.1859	2.8447	2.6370	3.1863	2.6675
489910.74	3766629.86	2.3518	1.0033	3.4005	3.1593	1.0133	3.6883	4.0376	1.3686	4.3070	2.2042	1.4362
489547.82	376528.44	1.5482	4.2017	1.1410	1.1410	1.4017	1.4017	1.4017	1.4017	1.5534	1.7666	1.5636
488975.30	3765509.69	1.7668	18.9724	2.3150	2.5417	15.6342	1.9150	1.7303	1.0603	4.8709	2.6856	3.7658
489282.63	3765479.37	4.1021	2.9008	1.1684	1.2109	2.7747	1.6599	2.0943	4.0828	1.8929	2.6788	
489255.82	3766654.52	1.6970	1.0167	10.9620	12.1570	0.9560	4.2085	1.2570	1.2589	4.2589	1.3307	1.4248
489765.06	3765413.35	3.4588	1.0373	1.1810	1.2710	2.9076	1.5646	1.5646	1.9123	1.7570	1.5155	4.6564
489024.40	3766232.83	1.7266	1.6118	5.6359	5.9146	1.6757	4.5748	2.6184	1.6455	3.5092	2.9141	1.6708
489891.49	376668.23	2.3021	1.0022	3.3343	3.1387	1.0118	3.7001	3.9817	1.3576	4.2994	2.1805	1.4234
488962.14	3766134.40	1.8133	2.0009	5.1024	5.1024	2.0009	4.1521	1.8956	2.8254	2.6230	3.1650	1.0981
488911.95	3765731.40	1.7056	4.7249	4.2786	4.2786	5.1238	3.0655	2.1826	1.3365	3.9392	2.4451	2.6491
489133.96	3766512.88	1.8511	1.0921	72.2720	74.906	1.1200	4.8176	2.9393	1.4020	4.0628	2.3414	1.4006
489222.19	376668.12	1.6744	0.9849	9.5973	9.7973	1.0052	4.5785	2.1621	1.4020	4.0628	2.3414	1.4725
488940.53	3765571.26	1.7069	9.2962	2.7161	2.9063	10.1725	2.0660	1.7836	3.8694	1.9633	2.7736	3.5682
489419.30	3765263.63	2.1738	6.1355	1.3578	1.4862	5.6797	1.4131	1.5522	4.7130	1.5075	2.2076	5.0622
489282.08	3766654.52	1.6970	1.0167	10.9620	10.7881	0.9560	4.2076	1.2570	1.2589	4.2589	1.3307	1.4024
489687.89	3765352.54	2.9037	3.3882	1.2642	1.3237	3.1684	1.4902	1.7650	4.6251	1.6483	1.3821	4.9307
488910.71	3765711.69	1.6888	4.8584	3.7407	4.1180	5.2712	3.0109	2.1645	2.8462	2.5881	3.1409	2.6654
489055.42	3768302.52	1.7188	1.9861	5.9618	6.2154	1.4445	4.7224	2.6717	1.5078	3.6055	2.7689	1.5507
489897.30	3765530.61	1.6964	1.1674	2.4011	2.2830	12.8916	1.9676	1.7305	1.9308	1.8890	1.6897	1.6307
489028.09	3765427.19	1.7153	29.1814	1.9389	2.1171	35.9305	1.7473	1.4189	1.8869	1.7270	2.5078	3.9404
489711.82	3763366.44	3.0888	3.2251	1.2475	1.1142	3.0627	1.5025	1.7942	4.5604	1.6683	2.4031	4.8549
488905.47	3765691.97	1.6837	3.5075	3.6359	3.6359	2.0324	5.5098	2.9324	2.1339	2.8988	1.5339	3.7085
489202.38	376661.49	1.6579	1.0022	8.6043	8.9507	1.0233	4.6158	1.8200	1.9886	1.9277	1.4797	
489046.17	3765406.27	1.7207	40.9453	1.8599	2.0290	55.2740	1.7028	1.6163	4.2284	1.6465	4.0014	
489174.97	3765616.48	1.6788	1.0151	7.4834	7.4834	1.0373	4.7329	1.7499	1.3784	2.3960	1.4065	1.4260
489010.08	3765448.12	1.7043	22.6671	2.0015	2.2004	26.6556	1.7882	1.6554	4.1194	1.7562	1.5604	1.8558
489852.92	3765512.38	4.4587	2.8445	1.1825	1.2746	2.7346	1.7006	2.1802	3.8839	1.9538	2.7364	4.2970
489613.59	3765389.90	2.6256	3.7752	1.3008	1.3008	3.5756	1.4291	1.6624	4.6467	1.5727	2.2816	4.9912
489255.00	376551.61	1.7352	3.7063	3.3140	3.3140	2.6847	1.8696	1.3472	1.5641	1.9561	1.7561	
489788.97	3765427.25	3.3544	2.9031	1.1548	1.1579	2.7676	1.5697	1.9344	4.3480	1.7689	2.5152	4.6574
489818.27	3765402.26	3.8738	2.8545	1.1500	1.1526	2.7285	1.5697	2.0222	4.0708	1.8344	2.5933	4.6070
489497.79	3765276.94	1.7204	1.4895	4.4058	4.1366	1.4056	4.4058	1.5713	1.4056	1.5713	1.5117	4.0144
489064.11	3765385.34	1.7258	67.8620	1.7903	1.9488	115.7536	1.6588	1.5939	4.2539	1.6588	2.4183	4.0517
488908.23	3765672.26	1.6797	5.2863	3.5598	3.9153	5.7398	2.8533	2.0977	2.9433	2.4796	3.0685	2.7445
489876.25	3766646.06	1.6970	1.0167	10.9620	10.7881	0.9560	4.2076	1.2570	1.2589	4.2589	1.3307	1.4024
489735.75	3765380.34	1.7174	3.1105	1.2101	1.2915	2.9609	1.5128	1.8213	4.4907	1.6859	4.4182	4.7560
488992.07	3765469.05	1.6905	18.4496	2.0804	2.2798	21.1046	1.8267	1.6676	4.0352	1.7826	2.5163	3.7655
489661.01	3765331.31	2.8016	3.4528	1.2546	1.2544	3.2700	1.4598	1.7107	4.5775	1.6061	3.2319	4.8927
489005.45	3765647.95	1.6546	1.1595	6.4223	6.4851	1.3241	4.9021	1.3241	1.7455	1.7455	1.5342	1.7455
489027.40	3765271.03	1.6965	1.5331	5.5485	5.8294	1.5916	4.5013	2.5816	1.5866	4.4567	1.6150	
489058.41	3766302.72	1.7216	3.1463	5.9315	6.1733	1.3916	4.6649	2.6528	1.4096	3.5713	2.7023	1.5147
489124.83	3765036.12	1.6928	6.4093	1.6928	1.6928	6.4093	1.6928	2.6545	1.6928	2.6545	1.6928	1.6928
489566.17	3765288.49	2.4617	4.0038	1.3046	1.3695	3.7791	1.4142	1.6111	4.6121	1.5350	2.2294	4.9655
488906.99	3765652.54	1.6876	5.5350	3.4624	3.8041	6.0111	2.7597	2.0526	2.9951	2.4105	3.0133	2.7859
488974.06	3765409.17	1.6773	15.5378	17.0255	17.0255	17.0255	1.8455	1.8455	1.8455	1.8455	1.8455	1.8455
489469.20	3765265.32	5.0271	2.2711	1.1314	1.4032	4.7081	1.3941	1.5490	4.5981	1.4591	1.1773	4.9419
488939.29	3765551.54	1.7653	9.6707	2.5175	2.7863	10.5864	1.9958	1.7373	3.7905	1.9027	2.6848	3.5060
489377.35	3765484.14	1.7078	1.8197	5.0888	5.3675	1.9004	4.1525	2.4874	1.7699	1.2487	1.9500	1.7690
489874.36	3765616.27	1.7643	3.7616	5.0712	5.3502	1.9506	4.1226	1.9506	4.1226	1.9506	4.1226	1.9506
489759.68	3765394.24	3.7767	2.9917	1.1691	1.2570	2.8571	1.5208	1.8459	4.3916	1.7010	2.4270	4.6379
489115.58	3766442.19	1.8204	1.0966	6.6888	6.9209	1.1258	4.7184	2.8255	1.3106	3.7482	1.4328	1.6788
489147.17	3766602.04	1.7019	1.0149	6.6840	6.6840	1.0149	4.6840	1.0149	1.0149	1.0149	1.0149	1.0149
489258.95	3766681.62	1.6498	0.9969	11.2871	12.0765	1.0209	4.4276	1.3145	1.3781	3.9626	2.2293	1.4170
488912.90	3765441.15	3.6640	2.8059	1.1310	1.1735	2.4803	1.5724	1.9532	4.1258	1.7779	2.5082	4.4917
489292.76	3765511.96	1.6970	7.7499	3.1580	3.4583	8.1524	2.1564	1.5658	1.5658	2.0270	1.8311	3.2055
488911.14	3766030.67	1.7429	2.4546	4.5718	4.9018	2.5988	3.7107	2.3294	2.0409	1.9812	1.0451	1.0038
488956.06	3765510.90	1.6635	11.9775	2.2980	2.5055	13.2449	1.8997	1.6884	3.8321	1.8290	2.5984	3.5602
489257.97	3766021.82	1.7725	2.5239	4.5129	4.8462	2.6763	3.6703	2.3130	2.0612	2.9544	3.0383	2.0193
489265.75	3765528.82	1.6983	5.4880	3.5683	3.5683	5.4880	3.5683	1.6983	1.6983	1.6983	1.6983	1.6983
488934.31	3766048.52	1.7362	2.3594	4.9234	4.9234	2.4937	3.7410	1.9981	2.9974	1.0240	1.9667	
489925.19	3766641.59	2.7750	0.9788	3.3081	3.0687	0.9885	3.5055	3.8289	1.3324	4.0641	1.2166	1.3968
489847.56	3765927.27	4.2923	1.2803	1.1254	1.1254	1.2803	1.1254	1.6857	1.2803	1.6857	1.6857	1.6857
489030.40	3766269.24	1.6708	1.4636	5.5089	5.7540	1.5175	4.4307	2.5484	1.5340	3.4081	1.7342	1.5653
489125.48	3766570.19	1.6669	1.0221	6.2889	6.4770	1.0464	4.5490	1.0504	1.2510	3.7977	2.4150	1.3134
489462.17	3765616.27	2.0956	6.1947	1.6389	1.6389	6.1947	1.6389	1.6389	1.6389	1.6389	1.6389	1.6389
489004.29	3765864.50	1.6758	3.8632	4.0822	4.4602	3.6080	3.3054	2.2096	2.3668	1.7367	2.7867	2.6339
489002.38	3766217.75	1.6747	1.6326	5.2269	5.4879	1.6993	4.2617	2.4925	1.6347	3.3016	2.8132	1.6513
489781.61	3765408.14	3.3763	2.4898	1.1346	1.1797	2.7171	1.5508	1.8680	4.2340	1.7136	4.2340	4.2340
489806.35	3766202.60	1.7588	5.1024	5.0944	5.1024	5.1024	1.8621	4.1223	1.7024	1.2216	1.8703	1.6336
489800.25	3765885.14	1.6703	3.5665	3.9854	4.3428	3.8328	3.2164	2.1823	2.4349	2.6827	3.0356	2.3180
488909.78	3765889.57	1.6571	3.1007	4.1780	4.5313	3.3179	3.4109	2.2375	2.2631	2.7977	1.0316	2.1794
489515.01	3765826.68	2.2791	1.4010	1.1287	1.1287	1.4010	1.1287	1.1287	1.1287	1.1287	1.1287	1.1287
489008.84	3765428.40	1.6666	25.3731	1.5963	2.1016	27.9077	1.7260	1.6061	3.9761	1.6985	2.4461	3.7793
488922.52	3765592.18	1.6804	7.8676	2.9834	3.25							

469697.72	3765319.49	2.7048	3.1013	1.2045	1.2598	2.9485	1.3997	1.6444	4.1171	1.5402	2.1932	4.3606
469819.80	3765333.03	1.5948	3.5317	2.6217	1.8802	2.8857	1.8802	1.6470	1.8909	1.7974	3.5054	3.2507
469526.09	3765250.61	2.2117	4.1264	1.1995	3.8462	1.3394	1.3394	1.5038	4.1971	1.4416	2.0737	4.4803
469772.89	3765369.92	3.0404	2.7957	1.1273	1.2081	2.6666	1.4454	1.7448	4.0021	1.6099	2.2690	4.2093
468986.34	3766239.09	1.6206	1.5349	4.8354	5.0763	1.5952	3.9339	2.3639	1.5509	1.9015	3.6314	1.5682
468935.57	3765402.38	1.5812	10.7417	2.1711	1.8812	1.5551	1.8014	1.6015	1.5312	1.7322	1.4309	1.7573
469907.53	3766669.88	2.0937	0.9491	3.1534	0.9580	1.5850	1.3012	3.5012	1.2720	3.7727	1.9958	1.3290
469114.58	3766613.53	1.5634	0.9536	5.9350	6.0747	0.9745	4.2197	2.8216	1.1816	3.5662	2.2514	1.2696
469315.47	3765451.56	1.5996	1.5996	1.2667	1.2667	1.5819	1.5819	1.5819	1.5819	1.7305	4.4165	1.9904
469017.36	3766308.78	1.9333	1.3454	5.0916	5.2926	1.1921	4.0784	2.4131	1.4346	3.7664	5.2526	1.6634
468874.69	3765793.54	1.5272	1.6992	3.4495	3.7964	3.9687	2.8904	2.0391	2.3727	2.4531	2.8151	2.2486
468881.12	3765801.78	1.1778	4.1278	3.1714	3.4024	3.0714	3.0714	3.2050	1.6461	2.5527	2.1193	1.8114
468885.23	3765867.48	1.4544	3.0012	3.7892	4.0951	3.1416	3.2066	2.5974	2.1532	2.1099	2.0684	2.7101
468884.02	3765594.40	1.5677	5.7664	3.0290	3.2968	6.2371	2.3694	1.8368	2.9204	2.1099	2.6830	2.7101
468874.35	3765713.82	1.5200	1.7999	3.4263	3.7303	4.0862	2.8480	2.0272	2.3971	2.4279	2.8072	2.2690
469045.09	3765637.70	1.4283	1.2564	3.5222	3.5222	1.3566	1.3566	1.4652	1.3521	2.4840	1.4348	1.3951
468875.93	3765773.26	1.5191	3.4985	3.5268	3.8319	3.7554	2.9433	2.0538	3.2025	2.8808	2.1880	2.1880
468878.41	3765812.69	1.5295	3.2805	3.6327	3.9379	3.5146	3.0197	2.2077	2.2398	2.5263	2.8030	2.1363
469280.50	3766078.24	2.0550	0.9439	3.2491	3.0257	2.3067	2.3067	2.4480	1.2609	2.7487	1.9726	1.7166
469796.82	3765383.82	3.1265	2.6548	1.0809	1.1232	2.5328	1.4506	1.4506	1.3872	1.6210	2.2711	4.1015
468877.17	3765792.97	1.5171	3.3545	3.5701	3.8739	3.5969	2.9859	2.0633	2.2536	2.5074	2.7977	2.1463
468953.39	3765169.40	1.5902	4.5486	4.7801	1.8098	3.7380	2.2776	1.6461	2.9527	2.6270	1.6462	1.6462
469120.17	3766683.29	1.5662	0.6047	7.3192	7.3550	0.9278	4.1087	2.8690	1.1515	1.6107	1.1469	1.2613
469116.14	3766554.25	1.6627	1.0103	6.0089	6.1858	1.0353	4.1109	1.2355	1.2355	1.4695	2.1916	1.2897
469202.03	3765573.68	1.5983	7.1600	2.8386	3.0818	7.7716	1.9673	1.6836	3.2213	1.8559	2.5627	2.9857
468890.73	3765902.55	1.5320	2.7500	3.8455	4.1432	2.3963	1.2180	2.1159	1.6389	1.6389	1.7722	1.9790
468970.35	3765430.82	1.5771	16.1017	1.9721	2.0901	18.2063	1.6819	1.5444	3.5979	1.6416	3.2356	1.3811
468998.36	3765409.90	1.5798	20.3975	1.8105	1.9758	23.6877	1.6430	1.5272	1.6435	1.6111	2.2935	4.3468
469046.82	3765238.40	1.5203	4.3740	1.2540	1.2540	4.1159	1.4707	1.1507	1.4152	1.4152	1.0312	1.3664
469379.76	3765223.07	1.9441	6.1189	1.2836	1.3568	5.6612	1.3225	1.4342	4.0872	1.0376	1.3992	4.3089
469006.36	3765388.97	1.5814	25.8004	1.7506	1.9054	31.1180	1.6064	1.5110	3.6841	1.5862	2.2624	3.4894
469020.36	3765365.98	1.5923	1.2999	4.0257	4.0257	1.2999	4.0257	1.2999	4.0257	1.5107	1.4725	1.4861
468872.21	3765714.11	1.4957	3.7484	3.3252	3.6203	4.0316	2.8233	2.0231	2.3499	2.4141	2.7821	2.2277
469024.37	3765368.05	1.5919	34.8292	1.6904	1.8362	44.9344	1.5692	1.4931	3.7117	1.5580	2.2274	3.5328
469098.22	3766487.79	1.7538	1.0365	5.8172	5.9954	1.0641	4.1091	2.5795	1.2239	3.3712	2.2442	1.2805
468945.11	3765416.85	1.5707	2.6185	1.0717	1.0717	2.6185	1.4923	1.5014	1.4923	1.4923	1.4923	1.7607
469406.75	3765388.05	1.5919	5.5845	1.2698	1.3158	5.5916	1.4358	1.4358	4.0697	1.3962	2.0101	4.3025
469193.76	3766677.09	1.5531	0.9089	6.7850	6.8606	0.9275	4.0790	2.8284	1.5500	3.5568	2.1478	1.2559
469107.81	3766504.18	1.5147	5.0157	4.1058	4.1058	5.0157	1.9421	1.5916	1.4851	1.3868	2.2157	1.2609
468952.34	3765451.75	1.5634	13.5597	1.9858	2.1562	15.0869	1.7126	1.5537	3.5254	1.6614	2.3407	3.3054
469743.59	3765336.91	2.8001	2.8798	1.1869	1.2351	2.7456	1.3986	1.6649	1.9358	1.5468	1.8283	4.1454
469621.24	3765705.75	1.5481	3.1481	1.4851	1.4851	3.1481	1.2708	1.4068	1.4534	1.5308	4.0794	4.2956
469666.46	3765292.17	1.5189	3.1964	1.2046	1.2580	3.0362	1.3578	1.5788	4.0111	1.4852	1.1115	1.2494
468893.34	3766257.30	1.5790	1.4587	4.7770	4.9855	1.5141	3.8817	2.3246	1.4930	3.0387	2.5412	1.5128
469150.71	3766649.10	1.5443	0.9318	5.9105	6.0429	0.9518	4.1084	2.7818	1.1594	1.6028	2.1969	1.2458
469570.84	3765252.12	1.5262	1.6672	1.2762	1.3476	1.6672	1.3476	1.5067	1.4310	1.4310	1.0465	1.0465
468901.71	3765972.69	1.5326	2.4068	3.9822	4.2642	2.5523	3.3315	2.1338	1.9054	2.6975	1.7867	1.8627
468908.98	3766016.19	1.5440	2.2435	4.0819	4.3549	2.3715	3.3945	2.1507	1.8479	2.7362	2.7204	1.8152
469597.95	3766066.88	2.1712	5.9811	1.2762	1.3476	5.9811	1.2762	1.3476	1.2762	1.6227	1.9933	1.9933
469042.38	3765347.12	1.5940	53.3015	1.6284	1.7661	80.1359	1.5303	1.4724	3.7201	1.5273	1.8163	3.5604
469433.74	3765223.18	2.0043	5.1176	1.2564	1.3246	4.7781	1.3996	1.4377	4.0431	1.3936	2.0030	4.2835
468954.33	3765167.47	1.5428	4.5228	1.4728	1.5228	4.5228	1.2920	1.4283	1.2920	1.2920	1.6076	1.6076
468912.25	3766034.04	1.5478	2.1724	4.1138	4.3817	2.2931	3.4162	1.8195	2.7489	1.7057	1.7057	1.7057
468905.81	3765998.34	1.5330	2.2931	4.0255	4.3000	2.4268	3.3627	2.1380	1.8590	2.7143	2.7102	1.8222
469767.52	3765303.81	2.8886	1.2706	1.1578	1.2179	2.6456	1.4070	1.6878	1.8690	1.5614	2.1935	1.0660
469542.48	3765241.61	1.5194	3.7863	1.2364	1.2664	3.7863	1.3664	1.4867	1.4207	1.4105	1.0277	1.0277
469957.00	3766665.10	2.1161	0.9369	2.9717	2.7644	0.9453	3.1663	3.4410	1.2626	1.6398	1.9765	1.3201
468866.01	3765651.53	1.4836	1.5883	3.0280	3.2967	1.4441	2.5444	1.9171	2.5755	2.2308	2.7024	2.4167
468934.33	3765471.68	1.5050	11.0900	1.2479	1.2479	11.0900	1.2479	1.2479	1.5410	1.6795	1.3514	1.3514
468896.22	3765937.62	1.5082	2.5108	3.8704	4.1543	2.6682	3.2692	2.1141	1.9305	2.6573	2.7109	1.8800
469282.75	3765397.72	1.5071	2.5698	1.0571	1.0965	2.4538	1.4539	1.7812	1.6844	1.6298	2.2880	3.9759
469020.79	3765533.86	1.5717	7.4142	1.2931	1.3431	7.4142	1.2931	1.3431	1.6052	1.8023	1.2982	1.2982
468882.78	3765574.89	1.5644	6.1855	2.8672	3.1050	6.0853	2.2053	1.7461	2.9713	1.9670	1.5735	1.7606
469716.08	3765313.58	2.6489	2.9618	1.1845	1.2333	2.8194	1.3697	1.6136	1.5071	1.2106	1.4272	1.7172
469023.33	3766344.44	1.6132	1.2539	5.0081	5.1889	1.2550	3.9757	2.3742	1.3640	2.4107	1.4021	1.4021
468917.56	3765953.33	1.5270	2.5270	2.5270	2.5270	2.5270	2.5270	2.5270	1.7456	1.7456	1.4208	1.4208
468915.32	3766051.89	1.5356	2.0793	4.1150	4.3739	2.1914	3.4226	2.1498	1.7721	2.7482	1.6697	1.7475
469219.08	3766705.68	1.5233	0.9444	7.4180	7.6549	0.9715	3.8851	2.7676	1.3032	3.4524	2.0592	1.3350
469106.80	3766328.10	1.5621	3.6621	1.0058	1.0558	3.6621	1.0058	1.0558	4.0291	1.2095	1.5615	1.5615
469791.45	3765364.71	2.9714	2.6566	1.0929	1.1730	2.5888	1.4127	1.7864	1.4500	1.5790	1.9179	3.9713
468992.34	3766275.50	1.5601	1.3997	4.7329	4.9295	1.4510	3.8337	2.3011	1.2556	1.0052	2.4782	1.4727
468961.22	3766255.81	1.5601	1.5893	3.6891	3.9891	1.5893	3.6891	1.5893	1.4584	1.6068	1.2908	1.5617
469077.67	3766418.82	1.5968	1.0929	5.6217	5.6217	1.1246	4.0791	2.4309	1.2157	2.2599	1.2599	1.2599
469940.06	3766773.32	2.0567	0.9312	2.9364	2.7505	0.9396	3.1443	3.3652	1.2479	1.5729	1.9437	1.9311
468864.78	3765595.81	1.5151	5.0549	2.9536	3.2090	5.4480	2.3957	1.8289	2.6931	2.1114	2.6159	1.8038
469105.05	3766017.22	1.4996	0.9975	5.9899	6.0909	1.0218	3.9404	1.5015	1.2115	1.3508	1.1682	1.1682
468916.32	3765493.60	1.5725	1.9838	2.3121	2.4194	1.9045	1.7675	1.5655	3.3428	1.6936	2.3541	1.3148
468867.25	3765653.24	1.4372	3.9456	3.0014	3.2677	4.2492	2.6441	1.9671	2.3565	2.3023	2.7065	2.2223
469460.73	3765232.24	1.5090	1.2499	1.4959	1.5090	1.2499	1.4959	1.4959	1.4203	1.3801	1.9716	1.8737
469108.92	3766613.71	1.5326	0.9465	5.2130	5.3282	0.9682	3.9665	2.7498	1.1569	3.3668	1.8786	1.2177
468916.49	37660											

469004.32	3766347.85	14909	1.1999	43.262	4.6809	1.2389	3.6091	2.1998	1.2954	2.8571	2.2367	1.3265
468885.83	3765457.20	14905	8.1153	2.1169	8.1289	1.4792	1.4882	1.0812	1.0812	1.0812	1.2607	1.2607
469187.61	3766713.49	14589	0.8561	5.6482	0.8731	3.6281	2.9507	1.0820	1.0820	1.0820	1.3826	1.3826
469461.35	3765196.25	15146	4.4269	1.1866	1.2467	4.1542	1.2417	1.3671	1.3639	1.3212	1.8741	1.8741
469057.54	3766445.10	15396	1.0366	4.5170	5.0285	1.0609	3.7340	2.2821	1.1841	2.9727	2.1069	1.2278
468973.31	3766278.63	14668	1.3025	4.4013	1.4668	1.3808	4.4713	1.3808	1.3726	1.7666	1.2501	1.2501
469559.00	3765226.09	15133	3.2691	1.1583	1.2095	3.1080	1.2540	1.4219	3.6100	1.3532	1.9073	1.8082
468966.63	3763731.68	14495	18.1869	1.6544	1.7912	20.9276	1.5146	1.4157	3.2455	1.4886	2.0836	3.0787
468984.62	3765302.68	14515	1.2455	15.2093	1.7950	1.8477	1.2050	1.1247	1.5094	1.4622	1.1046	1.1046
468984.64	3765350.75	14772	22.4775	1.6090	1.7995	26.6918	1.4866	1.2773	1.3673	1.4668	2.0598	1.1206
468869.73	3765647.48	13968	1.1134	2.8432	3.0848	3.3520	2.6231	1.9223	1.9845	2.2624	2.5330	1.9061
468870.07	3765555.75	14725	6.9251	1.7275	2.4861	7.4872	1.2483	1.2483	1.2483	1.2483	1.6595	2.7393
469570.24	3765214.75	14084	1.4768	1.1528	1.2070	1.4768	1.2945	1.2476	1.4055	1.2476	1.8899	1.8083
469488.35	3765196.31	15904	4.1058	1.1723	1.2308	3.8658	1.2387	1.3713	3.6182	1.3215	1.8719	1.8123
468931.61	3765431.53	14554	12.957	1.7796	1.9227	14.3799	1.5765	1.4394	1.6118	1.5305	2.1249	2.9824
469075.77	3766405.26	15929	0.9787	5.0444	1.0047	3.6994	1.0047	1.1413	2.9953	1.1413	1.0386	1.0386
469676.32	3765253.02	22995	2.8931	1.1174	1.1661	2.7481	1.2701	1.4669	3.5402	1.3824	1.9372	1.7367
469002.65	3765352.82	14786	29.4013	1.5440	1.6734	36.7809	1.4524	1.3851	3.2877	1.4403	2.0262	3.1427
469121.11	3767077.09	14448	0.8517	5.2520	5.3631	0.8608	3.5995	2.5545	1.0688	1.1559	1.9781	1.1682
468912.60	3765434.45	14480	10.2340	1.8846	2.0311	11.1736	1.6044	1.4487	3.1052	1.5489	1.1393	2.9242
468936.30	3766172.53	14277	1.5551	4.0079	4.2030	1.6221	3.3328	2.0583	1.4771	2.6485	2.3340	1.4726
468873.83	3765456.02	14469	7.2465	2.1351	2.5024	7.8330	1.6584	1.4992	2.9953	1.6149	2.2026	2.8264
468976.30	3766296.84	14594	1.2899	4.2806	4.4425	1.3354	1.4675	1.2387	1.3435	2.7497	2.2531	1.3639
469034.59	3766424.78	15299	1.0699	4.6552	4.7913	1.1011	3.6098	2.2282	1.2048	2.8866	2.1184	1.2450
469340.21	3765182.51	17445	6.2925	1.2509	1.2751	5.7875	1.2266	1.2256	1.5509	1.2984	1.8434	1.0853
469089.64	3766503.83	15424	0.9418	4.0131	4.9647	1.0446	3.3501	1.1448	1.0144	3.0144	1.9793	1.1933
469723.73	3765274.43	24057	2.6853	1.1004	1.1482	2.5568	1.2807	1.4970	3.5474	1.2960	1.8379	1.6936
469367.20	3765126.56	17384	5.7229	1.1958	1.2619	5.2947	1.2208	1.3273	3.5746	1.2817	1.9887	1.9887
469020.65	3765308.96	14776	1.4178	4.1901	4.5913	1.6113	1.2173	1.2817	1.2817	1.2817	1.4112	1.4112
468894.60	3765455.38	14387	8.2839	2.1809	2.2448	8.9943	1.6272	1.3547	1.5260	1.5620	2.1439	1.8471
469421.18	3765182.68	18236	4.8246	1.1775	1.2392	4.5054	1.2241	1.3354	3.5396	1.2962	1.8350	1.7061
469739.26	3765321.28	24719	2.4739	1.2910	1.3516	2.1346	1.2116	1.3716	3.1376	1.5600	1.9965	1.5231
468939.30	3765150.74	14136	1.4953	3.0883	4.1724	1.5576	3.2974	2.0425	1.4407	1.6271	2.2872	1.4390
469537.48	3765196.75	20000	3.6035	1.1336	1.1870	3.3933	1.2271	1.3713	3.5204	1.3147	1.8540	1.7103
469009.81	3766380.38	14792	1.1301	4.4862	4.5757	1.1651	3.5114	1.2393	1.2393	1.2393	1.2393	1.2393
469445.17	3765122.77	14901	1.4501	1.1665	1.2050	1.4501	1.2050	1.2050	1.2050	1.2050	1.2050	1.2050
469394.19	3765182.62	17432	5.2076	1.1833	1.2464	4.8433	1.2210	1.3241	3.5142	1.2889	1.8238	1.6662
468979.30	3766155.04	14823	1.2427	4.2351	4.3877	1.2853	3.4195	1.2063	1.3080	2.7176	2.2008	1.3306
469152.62	3767068.08	14343	4.8318	4.8919	4.8919	4.8919	4.8919	4.8919	4.8919	4.8919	4.8919	4.8919
468876.59	3765476.31	14218	7.3859	2.2194	2.3018	7.9677	1.6457	1.2705	2.9517	1.5709	2.1404	2.7729
469475.16	3765182.79	18881	4.1343	1.1536	1.2112	3.8891	1.2155	1.3404	3.4925	1.2937	1.8240	1.6679
468947.38	3765120.77	14113	15.5006	1.6413	1.7374	17.1385	1.4975	1.3871	3.4646	1.4646	1.0353	1.0353
468965.39	3765351.96	14391	18.6009	1.5961	1.7232	21.5232	1.4693	1.3781	3.1398	1.4446	2.0147	1.9869
468942.29	3766208.94	14067	1.4451	3.9769	4.1550	1.5034	3.2794	1.4111	2.6128	2.5221	1.4123	1.4123
468929.37	3765391.81	14255	13.1527	1.7065	1.8411	14.6028	1.5265	1.4015	3.0888	1.4851	2.0557	2.9022
469771.15	3765256.84	15046	2.4839	1.0964	1.1606	2.4839	1.1606	1.2356	3.1054	1.4144	1.9502	1.9502
469080.01	3765564.39	15434	0.9376	4.7627	4.8718	0.9608	3.5006	2.2978	1.1255	2.9194	1.9608	1.1770
469616.06	3765218.02	21017	3.0968	1.1309	1.1797	2.9489	1.2201	1.3970	3.4602	1.2376	1.8608	1.6397
469028.59	3766484.69	14281	1.0290	4.5963	4.5963	1.0290	4.5963	1.0290	1.0290	1.0290	1.0290	1.0290
469644.08	3765228.16	21559	2.9484	1.1255	1.1725	2.8128	1.2361	1.4130	3.4463	1.3382	1.8721	1.6227
468911.36	3765454.74	14186	10.7548	1.7904	1.9277	11.7975	1.5539	1.4112	3.0217	1.5034	2.0713	2.8518
468981.40	3765313.01	14418	22.2448	1.2851	1.3285	23.2448	1.2622	1.3476	3.2622	1.4205	1.9857	1.9857
469502.15	3765182.85	19190	3.8769	1.1347	1.1902	3.4458	1.2111	1.3425	3.4555	1.2921	1.8205	1.6324
468945.29	3766227.15	14036	1.4003	3.9729	4.1438	1.4552	3.2659	2.0263	1.3851	2.6026	2.2235	1.3895
469094.67	3765247.11	22635	2.7463	1.0915	1.1374	2.6125	1.2463	1.4419	3.1879	1.1567	1.8894	1.5560
469125.70	3765679.22	14260	0.8472	4.0072	4.0072	0.8537	3.4007	1.0004	1.0004	1.0004	1.0004	1.0004
469001.41	3765310.11	14420	30.7122	1.4825	1.6006	39.5137	1.4045	1.3448	3.1592	1.3945	1.9522	1.0290
468981.36	3765451.66	14118	8.5361	1.9809	2.0741	9.2822	1.5781	1.4182	2.9550	1.5186	2.0807	2.7860
469124.20	3766771.91	14085	0.8300	5.0913	5.0913	0.8464	3.4177	1.2461	1.2461	1.2461	1.2461	1.2461
468982.30	3766333.25	14235	1.1957	4.1777	4.3208	1.2354	3.8610	2.0785	1.2708	2.6785	2.1413	1.2573
469068.52	3766508.91	15941	0.9517	1.0047	4.8217	0.9766	3.4900	2.2282	1.1115	2.8611	1.9651	1.1952
469598.10	3765180.65	14017	1.2116	3.0129	3.1607	1.2129	3.1607	1.2129	1.2129	1.2129	1.2129	1.2129
469070.37	3766547.94	15433	0.9350	4.6122	4.7178	0.9585	3.4516	2.4489	1.1095	2.8569	1.9466	1.1590
469327.03	3765168.99	16854	6.3271	1.1817	1.2483	5.8087	1.2096	1.3931	1.2921	1.2670	1.7899	1.5060
469742.09	3766268.52	23673	2.9494	1.0377	1.0979	2.3776	1.2250	1.4693	3.3076	1.3738	1.9013	1.4617
469468.00	3765289.18	17987	4.8496	1.1649	1.2158	4.8496	1.2158	1.2158	1.2158	1.2158	1.2158	1.2158
469019.41	3765289.18	14415	46.6197	1.4377	1.5486	66.3471	1.3716	1.3262	1.5123	1.3681	1.9168	1.0366
469434.99	3765189.21	18029	4.4841	1.1468	1.2053	4.1996	1.1976	1.3089	3.9599	1.2686	1.7870	3.5503
468875.35	3765456.35	15971	7.5106	2.0642	2.1539	8.1950	1.2199	1.4150	2.1890	1.5281	1.9141	1.7171
468858.58	3765497.23	14061	6.2910	2.4063	2.5799	6.7771	1.7140	1.7140	2.7522	1.6134	2.5628	1.5628
468985.30	3766351.06	14170	1.1615	4.1511	4.2872	1.1991	3.3307	2.0681	1.2458	2.6608	2.1081	1.2725
469034.02	3765189.04	15097	5.7217	1.2395	1.2895	5.2395	1.2895	1.2895	1.2895	1.2895	1.2895	1.2895
469381.01	3765169.10	17729	5.2406	1.1618	1.2237	4.8675	1.1973	1.2918	3.3781	1.2611	1.7771	1.5179
469461.98	3765169.27	18740	4.1572	1.1348	1.1915	3.9075	1.1935	1.3112	3.3735	1.2674	1.7828	1.5321
469088.01	3766163.19	14137	0.9059	4.5783	4.6697	0.9272	3.3140	2.5284	1.1013	2.8892	1.8842	1.1531
469012.47	3766465.96	14712	1.0704	4.2936	4.1874	1.1024	3.1774	1.7090	1.2457	2.7090	1.9457	1.2127
469522.05	3765184.54	15977	3.3535	1.1016	1.1521	3.1465	1.1983	1.3404	3.3543	1.2836	1.7993	1.5249
468928.13	3765374.10	13971	13.7796	1.6429	1.7688	14.9428	1.4795	1.3655	2.9786	1.4421	1.9904	2.8240
469078.59	3766597.86	14858	0.9131	4.5164	4.5164	0.9286	3.4086	1.2356	1.2356	1.2356	1.2356	1.2356
468946.14	3765353.17	14030	15.7464	1.5857	1.7083	17.8636	1.4519	1.3540	3.1017	1.4225	1.9704	2.8623
468919.02	3765395.02	13913	10.9204	1.7243	1.8527	11.9541	1					

469749.74	3765229.37	2.1486	2.3672	1.0183	1.0580	2.2634	1.1766	1.3672	2.9758	1.2813	1.7512	3.1008
469836.45	3765128.65	1.8997	1.8264	4.8755	1.1862	4.1394	1.1367	1.2232	2.5535	1.1934	1.6645	3.1548
469904.45	3765488.61	1.8826	4.0958	4.1805	4.0997	3.1119	2.0062	1.0515	1.8802	1.8152	1.0889	3.1589
469935.44	3765128.65	1.6533	4.4704	1.0909	1.1453	4.1653	1.1344	1.2272	3.0523	1.1941	1.6644	3.1626
469879.68	3765271.89	1.3426	25.1592	1.3494	1.4718	31.6029	1.3055	1.2520	2.8208	1.2948	1.7804	3.1714
468996.52	3765420.76	1.1442	1.0010	3.8553	3.8553	1.0293	1.0293	1.9479	1.1103	2.4805	1.1401	3.1801
469579.67	3765157.62	1.8461	2.8923	1.0824	1.0824	2.7425	1.1394	1.3040	3.0340	1.2195	1.6886	3.1702
469515.59	3765142.40	1.7821	3.3191	1.0541	1.1025	3.1318	1.1333	1.2539	3.0453	1.2061	1.6744	3.1771
469422.44	3765142.71	1.6737	4.2026	1.0803	1.1340	3.0887	1.1340	1.2298	3.0771	1.2192	1.6598	3.1807
469341.46	3765128.54	1.5886	5.3095	1.1610	1.1610	4.9141	1.1344	1.2189	3.0283	1.1876	1.6552	3.1876
469660.32	3765142.35	1.9049	2.5647	1.0243	1.0596	2.4381	1.1470	1.3048	2.9883	1.2367	1.7024	3.1201
469608.48	3765130.38	1.9047	2.5646	1.0242	1.0595	2.4380	1.1470	1.3048	2.9882	1.2367	1.7024	3.1201
469039.66	3766667.34	1.4407	3.0851	3.8889	3.9613	0.9070	1.1344	1.2298	3.0174	1.1896	1.6552	3.1876
469085.83	3766646.09	1.4036	0.8379	4.0672	4.1291	0.8569	2.9790	2.0786	1.0241	2.6089	1.7225	1.0669
469064.41	3765153.87	1.1319	11.4772	1.5134	1.0361	12.6461	1.1370	1.2749	2.6949	1.3409	1.8277	2.5669
469440.43	3765128.77	1.6911	3.8173	1.0909	1.1214	3.6728	1.1344	1.2298	3.0174	1.1896	1.6552	3.1876
468997.69	3765250.96	1.3318	34.6980	1.3308	1.3308	48.1505	1.2767	1.2355	2.8115	1.2718	1.7559	2.7154
468888.40	3765356.80	1.3047	9.6203	1.5987	1.7063	10.4764	1.3977	1.2835	2.6636	1.3564	1.8414	2.5318
469234.42	3765234.95	1.2129	12.7685	1.4700	1.5750	15.4757	1.2498	1.2636	2.7157	1.2226	1.8082	2.5930
469048.89	3766083.09	1.4320	0.8715	3.9138	3.9854	0.8927	3.0233	2.0377	1.0328	2.5440	1.7666	1.0768
469113.53	3766693.34	1.3969	0.8105	4.0980	4.1461	0.8279	2.8915	2.0387	0.9988	2.6455	1.7908	1.0453
469543.38	3765142.46	1.7954	3.0748	1.0363	1.0842	2.9071	1.2525	1.2507	2.9930	1.2000	1.6613	3.1225
469314.47	3765128.48	1.5484	5.7645	1.1043	1.1639	5.3051	1.1300	1.2022	2.9874	1.1793	1.6415	3.0628
468870.39	3765377.73	1.2995	7.9996	1.7200	1.8131	8.6652	1.4190	1.2907	2.6195	1.3704	1.8520	2.4869
468942.42	3765294.02	1.1315	16.3452	1.4146	1.5186	18.8232	1.3229	1.2502	2.7287	1.3023	1.7846	2.6109
469031.48	3766175.50	1.4134	0.9039	3.9301	3.9938	0.9275	3.0199	1.9803	1.0419	2.5500	1.7854	1.0795
469476.42	3765128.82	1.7124	3.6129	1.0555	1.1058	3.3999	1.1197	1.2288	3.0897	1.2461	1.6461	3.1099
469716.43	3765202.73	2.0333	2.4673	1.0209	1.0601	2.3077	1.1300	1.3231	2.9306	1.2461	1.7045	3.0524
468852.38	3765365.63	1.2877	7.1968	1.4847	1.5867	7.4747	1.2457	1.2947	2.5717	1.3802	1.8547	2.6937
468960.43	3765273.10	1.3135	20.0469	1.3401	1.4618	22.4043	1.2943	1.2345	2.7258	1.2797	1.7563	2.6184
469625.48	3765100.89	1.8849	2.6026	1.0039	1.0497	2.4736	1.1266	1.2708	2.9325	1.2096	1.6650	3.0594
469503.41	3765128.88	1.3289	3.8389	1.0859	1.1385	3.1546	1.1335	1.2538	3.0147	1.2185	1.6388	3.0741
469352.27	3765115.08	1.7793	4.8269	1.0815	1.1963	4.4775	1.1552	1.1964	2.9400	1.1686	1.6254	3.0254
469382.26	3765115.13	1.6037	4.4455	1.0723	1.1259	4.1415	1.1128	1.2000	2.9417	1.1690	1.6231	3.0388
469768.10	3765222.46	2.1122	2.2335	0.9874	1.0277	2.1333	1.1345	1.3431	2.8507	1.2572	1.7079	2.9647
469402.25	3765115.19	1.6252	4.1467	1.0623	1.1462	4.0862	1.1202	1.1681	2.9207	1.1681	1.6207	3.0207
468978.44	3765252.17	1.3121	25.6974	1.3128	1.4188	32.7851	1.2660	1.2184	2.7188	1.2571	1.7270	2.6212
469505.66	3765166.31	1.9066	2.4841	1.0922	1.0375	2.3654	1.1245	1.2742	2.8964	1.2096	1.6606	3.0182
469008.68	3766456.78	1.3722	3.9513	1.0272	1.0745	3.8962	1.1245	1.2742	2.8964	1.2096	1.6606	3.0182
469328.28	3765115.02	1.5483	5.2986	1.0847	1.1413	4.9006	1.1139	1.1883	2.9191	1.1883	1.6160	2.9971
469436.24	3765115.25	1.6420	3.9246	1.0524	1.1036	3.6872	1.1041	1.2021	2.9156	1.1652	1.6136	3.0216
469530.40	3765128.46	1.4288	3.0885	1.0248	1.0685	2.9248	1.1074	1.2021	2.9248	1.1773	1.6213	3.0287
468887.16	3765317.08	1.2796	9.7236	1.5368	1.6387	10.5940	1.3571	1.2523	2.5903	1.3195	1.7868	2.4672
468905.17	3765316.16	1.2839	11.9041	1.4702	1.5696	13.1843	1.3343	1.2428	2.6149	1.3014	1.7712	2.4959
468960.27	3765318.18	1.2315	1.0960	3.5485	3.6839	1.1323	2.8757	1.8148	2.3215	1.2976	1.8608	1.1619
469075.48	3765316.79	1.2674	2.3674	0.9899	1.0316	2.3016	1.1299	1.2816	2.9218	1.2218	1.6681	3.0131
468966.28	3765354.27	1.2579	1.0582	3.5946	3.7026	1.0917	2.8811	1.8277	2.3311	1.2831	1.8492	1.1463
468869.15	3765358.01	1.2751	8.1448	1.6394	1.7342	8.8290	1.3785	1.2602	2.5338	1.3339	1.7989	2.4252
469278.42	3765115.14	1.4881	6.2354	1.0963	1.1462	6.7652	1.1563	1.1752	2.9156	1.1752	1.6080	2.9902
469592.91	3765143.21	1.8131	2.7182	1.0049	1.0499	2.5829	1.1099	1.2886	2.8856	1.1872	1.6336	3.0071
468922.18	3765295.23	1.2859	13.8216	1.4129	1.5116	15.5874	1.3094	1.2310	2.6299	1.2859	1.7509	2.5164
469463.23	3765115.30	1.9637	3.6107	1.0897	1.1397	3.8977	1.0897	1.2094	2.8941	1.1641	1.6081	3.0029
469058.27	3765366.38	1.0784	1.0724	3.5684	3.6792	1.0700	2.8658	1.8136	2.3879	1.3327	1.8467	1.0736
469104.29	3766767.59	1.3735	0.7849	3.9801	4.0286	0.8163	2.8482	2.0271	0.9838	2.5265	1.6478	1.0261
469095.06	3766661.84	1.3799	3.9544	3.9554	4.0277	0.8228	2.8484	2.0201	0.9838	2.4991	1.6573	1.0285
468851.14	3765378.94	1.2951	7.2642	1.7844	1.8934	7.8254	1.2959	1.2444	2.5444	1.3444	1.8036	1.0488
469575.30	3765197.65	2.0056	2.3442	0.9952	1.0330	2.2415	1.1307	1.3030	2.8208	1.2256	1.6671	2.9328
468941.18	3765274.31	1.2510	16.4154	1.3393	1.4577	19.0205	1.2830	1.2173	2.6352	1.2647	1.7267	2.5287
469557.39	3765128.98	1.2734	2.8716	1.0975	1.1402	2.7588	1.0975	1.2173	2.9217	1.1709	1.6117	3.0741
469490.22	3765115.36	1.4602	1.0655	1.0261	1.0750	3.1588	1.0941	1.2020	2.8641	1.1596	1.6001	2.9739
469030.43	3766051.59	1.4783	0.8495	3.6991	3.7690	0.8872	2.8769	1.9293	1.0059	2.4130	1.7135	1.0438
469671.29	3765154.17	1.8963	2.3627	1.0372	1.0876	2.3520	1.1127	1.2538	2.9129	1.1693	1.6963	2.9865
469200.39	3765118.07	1.4569	6.6422	1.0912	1.1511	6.0388	1.1072	1.1638	2.8277	1.1480	1.5890	2.8771
468959.19	3765253.38	1.2839	20.1672	1.3142	1.4096	24.3413	1.2553	1.2017	2.6303	1.2427	1.6986	2.5321
469368.08	3765101.61	1.5357	4.4277	1.0548	1.1067	4.1249	1.0915	1.1733	2.8355	1.1444	1.5828	2.9205
469640.99	3765102.00	1.4446	2.4553	0.9775	1.0275	2.4553	1.0915	1.1733	2.8355	1.1444	1.5828	2.9205
469342.09	3765101.56	1.5314	4.8548	1.0625	1.1158	4.5062	1.0933	1.1692	2.8298	1.1433	1.5819	2.9071
469021.19	3766358.84	1.4058	3.6455	3.7168	3.8699	0.8959	2.8515	1.9014	2.8816	1.2108	1.6407	1.0447
469396.07	3765101.61	1.5357	4.4277	1.0548	1.1067	4.1249	1.0915	1.1733	2.8355	1.1444	1.5828	2.9205
469517.22	3765115.42	1.6925	3.0943	1.0119	1.0572	2.9309	1.0877	1.2005	2.8857	1.1550	1.5901	2.9362
468971.77	3766386.80	1.2488	1.0069	3.5378	3.6355	1.0373	2.8217	1.8042	2.3876	1.2964	1.7943	1.1100
469291.20	3765107.80	1.2975	5.8114	1.1319	1.1874	5.1379	1.1319	1.1874	2.8136	1.1412	1.5793	2.9786
469697.23	3765170.84	1.9175	2.2802	0.9639	1.0073	2.1090	1.1090	1.2596	2.7758	1.1965	1.6302	2.8770
469421.06	3765101.73	1.5961	3.8585	1.0388	1.0882	3.6208	1.0846	1.1771	2.8202	1.1425	1.5769	2.9155
468885.92	3765317.37	1.2542	9.9447	1.4709	1.5850	10.8407	1.3178	1.2216	2.5175	1.2836	1.7334	2.4024
469022.06	3765062.41	1.2843	0.8845	3.7810	3.8406	0.8707	2.8076	1.8066	2.3879	1.3327	1.8467	1.0736
468867.91	3765328.29	1.2507	8.8226	1.5644	1.6559	8.9757	1.3392	1.2302	2.4887	1.2984	1.7470	2.3716
468903.93	3765296.44	1.2579	11.8964	1.4157	1.5100	13.1918	1.2955	1.2119	2.5371	1.2676	1.7173	2.4264
469012.63	3766465.30	1.2741	0.8999	3.8405	3.8405	0.8405	2.8405	1.8405	2.3405	1.2405	1.7188	2.4043
469450.05	3765101.78	1.6135	3.6049	1.0245	1.0730	3.3930	1.0801	1.1775	2.8015	1.1401	1.5712	2.8997
468849.												

469518.47	3765061.45	1.5328	2.7174	0.9351	0.9754	2.5828	1.0050	1.1032	2.4580	1.0628	1.4405	2.5356
469597.32	3765047.70	1.4289	1.6641	0.9389	1.0084	3.1038	1.0053	1.0928	2.4580	1.0533	1.4256	2.5241
469680.71	3765057.04	1.6895	2.0485	0.9831	0.9295	1.9611	1.0489	1.1492	2.4591	1.0554	1.4574	2.5128
469311.41	3765047.29	1.3777	4.4751	0.9847	1.0319	4.1888	1.0103	1.0725	2.4502	1.0509	1.4311	2.4965
469585.63	3765037.08	1.5885	2.3887	0.9717	0.9564	2.2023	1.0070	1.1171	2.4421	1.0703	1.4463	2.5234
468880.96	3765028.50	1.1561	9.9893	1.2373	1.3363	1.7497	1.0473	1.2276	2.4376	1.1535	1.5375	2.4506
469424.31	3765047.76	1.4549	3.3167	0.9551	0.9986	3.1310	1.0021	1.0839	2.4515	1.0521	1.4293	2.5179
469451.31	3765047.82	1.4494	3.0957	0.9457	0.9881	2.9341	0.9983	1.0842	2.4371	1.0502	1.4249	2.5059
469649.22	3765030.14	1.4411	2.1111	0.9412	0.9897	2.1092	1.0392	1.1412	2.4307	1.0772	1.4497	2.4936
468898.97	3765217.58	1.1553	11.2039	1.2099	1.2912	12.3261	1.1532	1.2384	2.3884	1.1368	1.5178	2.1561
469545.46	3765061.51	1.5409	2.5521	0.9215	0.9614	2.4295	0.9986	1.1003	2.4237	1.0578	1.4303	2.5009
469705.44	3765117.70	1.4376	1.9614	0.9376	1.0196	3.0761	1.0490	1.1449	2.4308	1.1489	1.5089	2.4740
469291.38	3765043.82	1.3550	4.6364	0.9821	1.0296	4.3087	1.0052	1.0634	2.4191	1.0437	1.4196	2.4597
469360.71	3765040.66	1.3991	3.8701	0.9641	1.0091	3.6323	0.9984	1.0866	2.4222	1.0427	1.4167	2.4768
469478.30	3765047.87	1.4816	2.9021	0.9345	0.9760	2.7523	0.9938	1.0835	2.4172	1.0473	1.4186	2.4875
469612.62	3765057.34	1.5914	2.4990	0.9004	0.9397	2.1490	0.9988	1.1119	2.3948	1.0631	1.4319	2.4609
469572.45	3765061.56	1.5468	2.4002	0.9076	0.9467	2.2888	0.9917	1.0855	2.3850	1.0520	1.4186	2.4609
469505.29	3765047.93	1.4919	2.7259	0.9235	0.9630	2.5912	0.9886	1.0819	2.3922	1.0436	1.4109	2.4634
469275.25	3765000.25	1.3121	4.8096	0.9748	1.0234	4.4575	0.9900	1.0522	2.3805	1.0342	1.4043	2.4547
468861.71	3765239.71	1.1320	8.8010	1.2552	1.3337	9.4827	1.1623	1.2503	2.1663	1.0905	1.5093	2.0811
469324.10	3765033.61	1.3578	4.1605	0.9623	1.0076	3.8902	0.9903	1.0531	2.3746	1.0307	1.3983	2.4197
469411.12	3765034.24	1.4155	3.3017	0.9305	0.9676	3.0871	0.9847	1.0620	2.3766	1.0320	1.3977	2.4361
469257.32	3765036.88	1.3124	4.8649	0.9783	1.0258	4.5915	0.9952	1.0457	2.3549	1.0296	1.3869	2.3847
468879.72	3765218.79	1.1321	9.7260	1.2092	1.2884	10.5453	1.1422	1.2305	2.1705	1.0851	1.4921	2.0893
469312.28	3765047.99	1.5303	2.5592	0.9109	0.9499	2.4408	0.9828	1.0795	2.1625	1.0392	1.4018	2.4188
468835.46	3765023.16	1.1217	7.1726	1.2120	1.2106	7.9377	1.1708	1.2092	2.1221	1.1446	1.5129	2.0406
469639.61	3765075.20	1.5925	2.1147	0.8834	0.9218	2.0210	0.9899	1.1059	2.3439	1.0551	1.4161	2.4198
469059.89	3765059.84	1.6508	1.9386	0.8502	0.8997	1.8606	0.9968	1.1246	2.3324	1.0474	1.4276	2.4688
469438.12	3765034.38	1.4129	3.1164	0.9812	1.0324	3.0814	0.9814	1.0624	2.3643	1.0363	1.3916	2.4308
469599.44	3765061.62	1.5507	2.2606	0.8920	0.9311	2.1618	0.9840	1.0919	2.3424	1.0455	1.4056	2.4166
469305.80	3765030.09	1.3371	3.9509	0.9609	1.0062	4.0124	0.9859	1.0450	2.3479	1.0243	1.3883	2.3881
469465.11	3765034.35	1.4850	2.8950	0.9242	0.9622	2.7422	0.9973	1.0829	2.2480	1.0281	1.3897	2.4129
469374.05	3765027.10	1.3777	3.5444	0.9843	1.0365	3.3463	0.9784	1.0489	2.3436	1.0223	1.3855	2.3957
469559.27	3765048.04	1.5068	2.4083	0.8980	0.9426	2.2999	0.9764	1.0763	2.3282	1.0340	1.3913	2.3989
469662.52	3765037.84	1.5965	2.0225	0.8881	0.9307	1.9267	0.9839	1.1026	2.3607	1.0501	1.4054	2.3805
469482.10	3765020.41	1.4236	3.7265	0.9517	1.0027	3.9217	0.9726	1.0617	2.2757	1.0249	1.3819	2.3849
469287.50	3765026.56	1.3153	4.4452	0.9582	1.0038	4.1389	0.9808	1.0362	2.3183	1.0173	1.3771	2.3533
469355.51	3765023.53	1.3578	3.7475	0.9416	0.9848	3.5334	0.9747	1.0417	2.3234	1.0167	1.3751	2.3714
469626.43	3765035.68	1.6236	1.7176	0.9158	0.9542	1.9126	0.9854	1.0864	2.1856	1.0342	1.3913	2.3683
468889.22	3765195.80	1.1179	10.015	1.1586	1.2355	10.9193	1.1125	1.0587	2.1318	1.0950	1.4562	2.0565
469519.10	3765034.47	1.4613	2.5663	0.9005	0.9384	2.4445	0.9672	1.0592	2.3020	1.0210	1.3738	2.3786
468804.06	3765202.00	1.1091	8.5793	1.1264	1.2054	9.1264	1.1264	1.0584	2.1264	1.1068	1.4660	2.0444
469336.96	3765019.96	1.3380	3.8009	0.9407	0.9841	3.6410	0.9708	1.0342	2.3013	1.0310	1.3663	2.3450
469586.26	3765048.10	1.5112	2.2727	0.8847	0.9218	2.1737	0.9694	1.0722	2.2901	1.0281	1.3795	2.3596
469086.33	3765037.98	1.6033	1.9211	0.8449	0.8897	1.8427	0.9791	1.1009	2.2726	1.0465	1.3965	2.3445
469424.94	3765020.78	1.3911	3.0975	0.9563	0.9945	3.2121	0.9644	1.0513	2.2913	1.0111	1.3615	2.3525
469269.19	3765023.04	1.2907	4.5984	0.9522	0.9987	4.2713	0.9743	1.0259	2.2833	1.0087	1.3632	2.3126
468830.81	3765244.47	1.0979	7.0115	1.2743	1.3459	7.4516	1.1457	1.0673	2.0643	1.1154	1.4698	1.9819
469451.93	3765020.82	1.4900	2.8934	0.9059	0.9442	2.7451	0.9623	1.0455	2.2412	1.0093	1.3594	2.3404
469546.09	3765034.52	1.4681	2.4173	0.8880	0.9256	2.3058	0.9613	1.0565	2.2719	1.0163	1.3644	2.3375
469250.89	3765053.52	1.2745	4.3761	0.9547	1.0001	4.3907	0.9711	1.0191	2.2573	1.0035	1.3552	2.2824
469387.44	3765031.56	1.3561	3.6300	0.9205	0.9580	3.1167	0.9590	1.0467	2.2677	1.0033	1.3512	2.3173
469478.92	3765020.89	1.4146	2.7276	0.8997	0.9387	2.5928	0.9567	1.0405	2.2645	1.0005	1.3450	2.3240
469613.25	3765048.16	1.5138	2.1438	0.8694	0.9065	2.0499	0.9617	1.0674	2.2486	1.0215	1.3664	2.3164
469299.88	3765021.83	1.2981	4.1312	0.9379	0.9815	3.8616	0.9623	1.0186	2.2518	0.9987	1.3473	2.3666
468870.11	3765136.79	1.1545	10.0957	1.1445	1.2002	9.4708	1.1017	1.0612	2.1017	1.0818	1.4320	2.0400
469571.08	3765014.58	1.4732	2.2789	0.8755	0.9121	2.1773	0.9549	1.0530	2.2379	1.0120	1.3538	2.3029
469505.91	3765020.95	1.4234	2.5744	0.8895	0.9267	2.4525	0.9528	1.0394	2.2425	1.0030	1.3463	2.3027
469676.78	3765013.74	1.5976	1.9045	0.8396	0.8790	1.8817	0.9817	1.0718	2.0877	1.0362	1.3681	2.2814
469349.95	3765006.34	1.3771	3.6311	0.9199	0.9615	3.4711	0.9519	1.0157	2.2305	0.9917	1.3353	2.2726
469281.33	3765009.26	1.3184	4.2605	0.9355	0.9793	3.9748	0.9574	1.0101	2.2239	0.9919	1.3366	2.2540
469640.24	3765048.21	1.5146	2.0893	0.8535	0.8938	1.9535	0.9893	1.0838	2.1041	1.0288	1.3511	2.2695
468880.05	3765180.41	1.0888	9.1707	1.1088	1.2000	9.8087	1.0837	1.0321	2.0536	1.0666	1.4121	1.9829
469532.90	3765021.00	1.4306	2.4283	0.8787	0.9150	2.3174	0.9464	1.0370	2.2163	0.9989	1.3379	2.2768
469438.75	3765037.31	1.3364	2.5022	0.8975	0.9365	2.7706	0.9447	1.0212	2.2171	0.9905	1.3303	2.2694
469603.07	3765020.64	1.4764	2.1509	0.8801	0.9206	2.0621	0.9478	1.0405	2.2062	1.0008	1.3418	2.2438
469331.20	3765002.73	1.2990	3.7420	0.9188	0.9606	3.5157	0.9480	1.0084	2.2091	0.9860	1.3267	2.2474
469465.74	3765037.37	1.3780	2.7313	0.8879	0.9267	2.5961	0.9411	1.0211	2.2028	0.9885	1.3257	2.2569
469262.79	3765006.69	1.2536	4.3962	0.9159	0.9589	4.1929	0.9203	1.0003	2.1924	0.9824	1.3210	2.2200
469559.89	3765021.06	1.4362	2.2913	0.8663	0.9023	2.1923	0.9404	1.0340	2.1862	0.9940	1.3283	2.2467
469400.89	3765000.03	1.3336	3.1059	0.9095	0.9390	2.9403	0.9398	1.0102	2.1938	0.9825	1.3192	2.2408
469387.44	3765137.79	1.1546	10.7042	1.1635	1.2047	9.8087	1.0523	1.0088	2.1263	1.0684	1.4077	1.9566
469312.45	3764999.12	1.2797	3.8546	0.9174	0.9593	3.6154	0.9438	1.0180	2.1860	0.9801	1.3175	2.2202
469492.73	3765007.43	1.3180	2.5816	0.8785	0.9158	2.4588	0.9366	1.0199	2.1840	0.9854	1.3193	2.2391
469667.23	3765048.27	1.5136	1.8950	0.8351	0.8701	1.8197	0.9446	1.0544	2.1564	1.0060	1.3165	2.2186
469627.06	3765014.68	1.4779	2.0270	0.8468	0.8848	1.9432	0.9402	1.0428	2.1602	0.9962	1.3208	2.2098
468864.72	3765180.81	1.0723	8.3057	1.1187	1.1910	8.8212	1.0748	1.0203	2.0053	1.0928	1.3928	1.9952
469293.70	3764995.52	1.2634	3.9681	0.9157	0.9577	3.7157	0.9395	0.9980	2.1614	0.9739	1.3079	2.1935
469513.72	3765007.48	1.3944	2.4375	0.8394	0.8764	2.296	0.9436	1.0213	2.1617	1.0117	1.3118	2.1710
469586.88	3765021.12	1.4400	2.1663	0.8541	0.8891	2.0730	0.9339	1.0302	2.1527	0.9886	1.3175	2.2124
469363.03	3764992.74											

469470.43	3764932.80	1.2216	2.3628	0.8039	0.8364	2.2589	0.8509	0.9191	1.8652	0.8903	1.1724	1.9001
469451.74	3764925.21	1.2097	2.4442	0.8057	0.8384	2.3291	0.8492	0.9151	1.8594	0.8875	1.1688	1.8928
469534.78	3764940.05	1.2494	2.1039	0.7910	0.8221	2.0159	0.8492	0.9244	1.8546	0.8918	1.1757	1.8827
469267.26	3764925.94	1.1248	3.3628	0.8343	0.8703	3.1729	0.8559	0.8999	1.8504	0.8836	1.1668	1.8666
469453.06	3764925.61	1.1979	2.4878	0.8065	0.8395	2.3786	0.8475	0.9120	1.8526	0.8846	1.1651	1.8844
469414.38	3764922.02	1.1846	2.6186	0.8069	0.8399	2.4556	0.8452	0.9063	1.8436	0.8811	1.1603	1.8736
468831.60	3765103.30	0.9615	5.7696	0.9857	1.0433	5.9123	0.9540	0.9115	1.7144	0.9385	1.2167	1.6613
469561.77	3764940.11	1.2530	1.9963	0.7819	0.8115	1.9170	0.8444	0.9219	1.8338	0.8880	1.1643	1.8722
469247.91	3764912.22	1.1074	3.4722	0.8308	0.8672	3.2312	0.8512	0.8913	1.8775	0.8774	1.1571	1.8407
469395.69	3764918.42	1.1715	2.6776	0.8070	0.8401	2.5496	0.8428	0.9015	1.8336	0.8775	1.1553	1.8617
468851.99	3765081.80	0.9622	5.9189	0.9664	1.0218	6.0144	0.9393	0.9035	1.7128	0.9271	1.2039	1.6631
469177.01	3764914.82	1.1582	2.7851	0.8399	0.8702	2.6032	0.8402	0.8965	1.8325	0.8737	1.1499	1.8486
469521.60	3764926.53	1.2195	2.1451	0.7835	0.8140	2.0563	0.8364	0.9082	1.8119	0.8772	1.1500	1.8469
469358.33	3764911.23	1.1454	2.7934	0.8065	0.8398	2.6556	0.8377	0.8916	1.8108	0.8700	1.1446	1.8351
469483.98	3764915.29	1.1998	2.2291	0.7864	0.8175	2.1141	0.8345	0.9021	1.8073	0.8733	1.1457	1.8401
469339.65	3764907.63	1.1337	2.8493	0.8064	0.8386	2.7067	0.8351	0.8867	1.7982	0.8661	1.1391	1.8205
469548.59	3764926.59	1.2257	1.9669	0.7724	0.8016	1.8893	0.8325	0.9067	1.7940	0.8743	1.1443	1.8299
469446.36	3764912.05	1.1775	2.3488	0.7889	0.8205	2.2458	0.8315	0.8946	1.7969	0.8680	1.1392	1.8270
468826.67	3765082.20	0.9474	5.5512	0.9021	1.0149	5.6484	0.9318	0.8938	1.6776	0.9182	1.1887	1.6279
469320.96	3764904.04	1.1177	2.9065	0.8046	0.8381	2.7589	0.8316	0.8806	1.7828	0.8613	1.1320	1.8027
468788.31	3765117.47	0.9326	4.9891	0.9827	1.0403	5.1258	0.9473	0.8963	1.6429	0.9269	1.1926	1.5891
469468.73	3764904.81	1.1517	2.5436	0.7902	0.8221	2.4263	0.8269	0.8853	1.7798	0.8611	1.1297	1.8065
469389.92	3764901.19	1.1384	2.5981	0.7898	0.8219	2.4763	0.8242	0.8803	1.7693	0.8572	1.1243	1.7941
469302.28	3764900.44	1.1027	2.9615	0.8025	0.8360	2.8091	0.8279	0.8744	1.7662	0.8563	1.1245	1.7838
468820.95	3765082.66	0.9333	5.2203	0.9538	1.0081	5.3170	0.9247	0.8844	1.6435	0.9097	1.1740	1.5941
468846.93	3765061.03	0.9396	5.4297	0.9381	0.9907	5.4816	0.9137	0.8806	1.6545	0.9024	1.1677	1.6082
469535.41	3764913.07	1.1970	2.0093	0.7950	0.8203	1.9312	0.8203	0.8912	1.7547	0.8603	1.1236	1.7876
469371.11	3764897.57	1.1257	2.6513	0.7893	0.8215	2.5251	0.8217	0.8755	1.7585	0.8536	1.1102	1.7815
469497.55	3764905.78	1.1796	2.0524	0.7680	0.7973	1.9600	0.8190	0.8858	1.7519	0.8570	1.1205	1.7832
469283.60	3764896.84	1.0889	3.0126	0.8012	0.8347	2.8559	0.8246	0.8686	1.7499	0.8517	1.1176	1.7653
469352.30	3764893.95	1.1142	2.7025	0.7893	0.8215	2.5722	0.8196	0.8711	1.7479	0.8502	1.1145	1.7692
469459.69	3764898.50	1.1584	2.1765	0.7714	0.8018	2.0839	0.8163	0.8788	1.7438	0.8522	1.1146	1.7725
469333.49	3764890.33	1.1035	2.7775	0.7902	0.8221	2.5864	0.8175	0.8668	1.7369	0.8471	1.1101	1.7606
469440.77	3764894.85	1.1464	2.2693	0.7733	0.8036	2.1713	0.8143	0.8747	1.7373	0.8491	1.1106	1.7645
469264.91	3764891.25	1.0739	3.0619	0.7987	0.8223	2.9012	0.8207	0.8622	1.7316	0.8464	1.1096	1.7446
468811.60	3765061.43	0.9250	5.1203	0.9319	0.9839	5.1796	0.9063	0.8711	1.6208	0.8937	1.1528	1.5745
469421.84	3764891.21	1.1337	2.4141	0.7742	0.8049	2.3112	0.8120	0.8701	1.7292	0.8457	1.1059	1.7548
469314.68	3764886.71	1.0870	2.8038	0.7867	0.8191	2.6651	0.8133	0.8601	1.7201	0.8415	1.1018	1.7374
469246.23	3764889.65	1.0594	2.1069	0.7665	0.8002	2.0417	0.8168	0.8558	1.7119	0.8412	1.1017	1.7236
469402.91	3764887.57	1.1199	2.4703	0.7739	0.8048	2.3585	0.8091	0.8650	1.7190	0.8417	1.1002	1.7427
469383.98	3764883.92	1.1079	2.5193	0.7736	0.8046	2.4037	0.8068	0.8604	1.7094	0.8382	1.0955	1.7315
469795.87	3764883.08	1.0738	2.8508	0.7855	0.8179	2.7084	0.8102	0.8546	1.7053	0.8371	1.0953	1.7206
468815.78	3765062.85	0.9120	4.8513	0.9270	0.9786	4.9164	0.9003	0.8628	1.5904	0.8863	1.1400	1.5440
469365.05	3764880.28	1.0958	2.5675	0.7730	0.8041	2.4480	0.8043	0.8558	1.6989	0.8346	1.0904	1.7194
469277.05	3764879.46	1.0604	2.8952	0.7842	0.8165	2.7494	0.8068	0.8489	1.6896	0.8326	1.0885	1.7028
469346.12	3764876.64	1.0856	2.6127	0.7735	0.8045	2.4988	0.8025	0.8518	1.6894	0.8317	1.0864	1.7094
469327.19	3764872.99	1.0737	2.6574	0.7732	0.8041	2.5310	0.7999	0.8470	1.6774	0.8280	1.0811	1.6947
469258.24	3764875.84	1.0457	2.9375	0.7812	0.8139	2.7885	0.8028	0.8424	1.6716	0.8272	1.0805	1.6826
469268.26	3764869.35	1.0590	2.7030	0.8017	0.8170	2.5731	0.7961	0.8469	1.6621	0.8220	1.0773	1.6773
469289.33	3764865.71	1.0462	2.7441	0.7693	0.8004	2.6111	0.7930	0.8355	1.6478	0.8187	1.0673	1.6611
468776.66	3765068.32	0.8845	4.3048	0.9171	0.9681	4.3767	0.8886	0.8454	1.5242	0.8713	1.1131	1.4780
469270.41	3764862.06	1.0331	2.7824	0.7677	0.7988	2.6468	0.7896	0.8288	1.6324	0.8141	1.0605	1.6447
469251.48	3764858.42	1.0192	2.8180	0.7649	0.7964	2.6801	0.7858	0.8236	1.6154	0.8090	1.0529	1.6247

CONCUNIT ug/m³

DEPLUNIT g/m²

Unmitigated
Diesel Truck Emissions

Annual Average Offsite Total DPM Emission Rate - Segment 1 (grams/sec):
Annual Average Offsite Total DPM Emission Rate - Segment 2 (grams/sec):
Annual Average Offsite Total DPM Emission Rate - Segment 3 (grams/sec):
Annual Average Offsite Total DPM Emission Rate - Segment 4 (grams/sec):
Annual Average Offsite Total DPM Emission Rate - Segment 5 (grams/sec):
Annual Average Offsite Total DPM Emission Rate - Segment 6 (grams/sec):
Annual Average Offsite Total DPM Emission Rate - Segment 7 (grams/sec):
Annual Average Offsite Total DPM Emission Rate - Segment 8 (grams/sec):
Annual Average Offsite Total DPM Emission Rate - Segment 9 (grams/sec):
Annual Average Offsite Total DPM Emission Rate - Segment 10 (grams/sec):
Annual Average Offsite Total DPM Emission Rate - Segment 11 (grams/sec):

3.36E-07
4.60E-07
8.06E-07
8.06E-07
3.94E-06
3.94E-06
3.94E-06
7.88E-06
1.51E-05
3.16E-06
1.18E-05

		SUNE1	SUNE2	SUNE3	SUNE4	SUNE5	SUNE6	SUNE7	SUNE8	SUNE9	SUNE10	SUNE11	Total DPM
X	Y	Annual DPM Exhaust w/Actual Emissions (log(m3))	Annual DPM Exhaust w/Actual Emissions (log(m3))	Annual DPM Exhaust w/Actual Emissions (log(m3))	Annual DPM Exhaust w/Actual Emissions (log(m3))	Annual DPM Exhaust w/Actual Emissions (log(m3))	Annual DPM Exhaust w/Actual Emissions (log(m3))	Annual DPM Exhaust w/Actual Emissions (log(m3))	Annual DPM Exhaust w/Actual Emissions (log(m3))	Annual DPM Exhaust w/Actual Emissions (log(m3))	Annual DPM Exhaust w/Actual Emissions (log(m3))	Annual DPM Exhaust w/Actual Emissions (log(m3))	(log(m3))
469644.93	3766144.59	6.30E-06	1.57E-06	5.08E-06	4.67E-06	2.80E-06	5.61E-05	2.47E-04	4.42E-05	5.06E-04	6.07E-05	8.11E-05	1.01E-03
469649.83	3766183.48	5.47E-05	1.46E-06	4.88E-06	4.68E-06	2.60E-06	5.77E-05	2.53E-04	4.08E-05	5.13E-04	5.33E-05	7.28E-05	1.01E-03
469654.73	3766182.38	8.41E-06	1.37E-06	4.87E-06	4.67E-06	2.44E-06	5.90E-05	2.54E-04	3.79E-05	5.19E-04	4.70E-05	6.70E-05	1.02E-03
469659.63	3766201.27	4.26E-06	1.29E-06	4.87E-06	4.61E-06	2.30E-06	5.99E-05	2.52E-04	3.52E-05	5.24E-04	4.17E-05	6.20E-05	9.92E-04
469664.53	3766220.16	3.80E-06	1.21E-06	4.87E-06	4.61E-06	2.16E-06	6.03E-05	2.45E-04	3.29E-05	5.25E-04	3.72E-05	5.72E-05	9.74E-04
469669.43	3766239.05	3.41E-06	1.15E-06	4.88E-06	4.58E-06	2.05E-06	6.02E-05	2.34E-04	3.08E-05	5.35E-04	3.34E-05	5.38E-05	9.51E-04
469674.33	3766257.95	3.08E-06	1.09E-06	4.88E-06	4.56E-06	1.93E-06	5.97E-05	2.17E-04	2.89E-05	5.47E-04	3.01E-05	4.93E-05	9.21E-04
469679.23	3766276.84	2.71E-06	1.03E-06	4.88E-06	4.54E-06	1.82E-06	5.86E-05	1.96E-04	2.71E-05	5.59E-04	2.72E-05	4.59E-05	8.79E-04
469684.09	3766295.74	2.42E-06	9.75E-07	4.89E-06	4.52E-06	1.72E-06	5.75E-05	1.76E-04	2.53E-05	5.71E-04	2.43E-05	4.31E-05	8.48E-04
469688.99	3766314.63	2.13E-06	9.18E-07	4.89E-06	4.50E-06	1.62E-06	5.62E-05	1.56E-04	2.35E-05	5.83E-04	2.14E-05	4.03E-05	8.19E-04
469693.89	3766333.52	1.84E-06	8.61E-07	4.90E-06	4.48E-06	1.52E-06	5.50E-05	1.36E-04	2.17E-05	5.95E-04	1.85E-05	3.75E-05	7.90E-04
469698.79	3766352.41	1.55E-06	8.04E-07	4.90E-06	4.46E-06	1.42E-06	5.37E-05	1.16E-04	1.99E-05	6.07E-04	1.56E-05	3.46E-05	7.61E-04
469703.69	3766371.30	1.26E-06	7.47E-07	4.91E-06	4.44E-06	1.32E-06	5.24E-05	9.6E-05	1.81E-05	6.19E-04	1.27E-05	2.69E-05	6.54E-04
469708.59	3766390.19	1.07E-06	6.90E-07	4.91E-06	4.42E-06	1.22E-06	5.11E-05	7.4E-05	1.63E-05	6.31E-04	1.08E-05	2.88E-05	6.93E-04
469713.49	3766409.08	9.82E-07	6.33E-07	4.92E-06	4.40E-06	1.12E-06	4.98E-05	5.2E-05	1.45E-05	6.43E-04	9.5E-06	2.69E-05	6.54E-04
469718.39	3766427.97	8.87E-07	5.76E-07	4.93E-06	4.38E-06	1.02E-06	4.85E-05	3.0E-05	1.27E-05	6.55E-04	8.5E-06	2.50E-05	6.35E-04
469723.29	3766446.86	7.92E-07	5.19E-07	4.94E-06	4.36E-06	9.2E-07	4.72E-05	8.0E-06	1.09E-05	6.67E-04	7.4E-06	2.31E-05	6.16E-04
469728.19	3766465.75	6.97E-07	4.62E-07	4.95E-06	4.34E-06	8.2E-07	4.60E-05	5.9E-06	9.2E-06	6.79E-04	6.3E-06	2.12E-05	5.97E-04
469733.09	3766484.64	6.02E-07	4.05E-07	4.96E-06	4.32E-06	7.2E-07	4.47E-05	3.8E-06	8.0E-06	6.91E-04	5.1E-06	1.93E-05	5.78E-04
469737.99	3766503.53	5.07E-07	3.48E-07	4.97E-06	4.30E-06	6.2E-07	4.34E-05	1.7E-06	6.8E-06	7.03E-04	3.9E-06	1.74E-05	5.59E-04
469742.89	3766522.42	4.12E-07	2.91E-07	4.98E-06	4.28E-06	5.2E-07	4.21E-05	5.0E-06	5.6E-06	7.15E-04	2.7E-06	1.55E-05	5.40E-04
469747.79	3766541.31	3.17E-07	2.34E-07	4.99E-06	4.26E-06	4.2E-07	4.08E-05	2.9E-06	4.4E-06	7.27E-04	1.5E-06	1.36E-05	5.21E-04
469752.69	3766560.20	2.22E-07	1.77E-07	5.00E-06	4.24E-06	3.2E-07	3.95E-05	1.8E-06	3.2E-06	7.39E-04	1.3E-06	1.17E-05	5.02E-04
469757.59	3766579.09	1.27E-07	1.20E-07	5.01E-06	4.22E-06	2.2E-07	3.82E-05	6.0E-06	2.0E-06	7.51E-04	1.1E-06	1.08E-05	4.83E-04
469762.49	3766597.98	3.6E-08	6.4E-08	5.02E-06	4.20E-06	1.2E-07	3.70E-05	2.9E-06	1.8E-06	7.63E-04	9.0E-07	9.1E-06	4.64E-04
469767.39	3766616.87	2.65E-08	5.4E-08	5.03E-06	4.18E-06	1.2E-07	3.57E-05	1.8E-06	1.6E-06	7.75E-04	7.8E-07	8.2E-06	4.45E-04
469772.29	3766635.76	1.70E-08	4.4E-08	5.04E-06	4.16E-06	1.2E-07	3.44E-05	8.0E-06	1.4E-06	7.87E-04	6.6E-07	7.3E-06	4.26E-04
469777.19	3766654.65	7.5E-09	3.4E-08	5.05E-06	4.14E-06	1.2E-07	3.31E-05	4.0E-06	1.2E-06	7.99E-04	5.4E-07	6.4E-06	4.07E-04
469782.09	3766673.54	6.5E-09	2.4E-08	5.06E-06	4.12E-06	1.2E-07	3.18E-05	2.0E-06	1.0E-06	8.11E-04	4.2E-07	5.5E-06	3.88E-04
469786.99	3766692.43	5.5E-09	1.4E-08	5.07E-06	4.10E-06	1.2E-07	3.05E-05	9.0E-06	8.0E-06	8.23E-04	3.0E-07	4.6E-06	3.69E-04
469791.89	3766711.32	4.5E-09	4.0E-09	5.08E-06	4.08E-06	1.2E-07	2.92E-05	4.0E-06	6.0E-06	8.35E-04	1.8E-07	3.7E-06	3.50E-04
469796.79	3766730.21	3.5E-09	3.0E-09	5.09E-06	4.06E-06	1.2E-07	2.79E-05	2.0E-06	4.0E-06	8.47E-04	1.6E-07	2.8E-06	3.31E-04
469801.69	3766749.10	2.5E-09	2.0E-09	5.10E-06	4.04E-06	1.2E-07	2.66E-05	1.0E-06	2.0E-06	8.59E-04	1.4E-07	2.0E-06	3.12E-04
469806.59	3766767.99	1.5E-09	1.0E-09	5.11E-06	4.02E-06	1.2E-07	2.53E-05	5.0E-06	1.0E-06	8.71E-04	1.2E-07	1.5E-06	2.93E-04
469811.49	3766786.88	5.0E-10	5.0E-10	5.12E-06	4.00E-06	1.2E-07	2.40E-05	2.0E-06	5.0E-06	8.83E-04	1.0E-07	1.0E-06	2.74E-04
469816.39	3766805.77	4.0E-10	4.0E-10	5.13E-06	3.98E-06	1.2E-07	2.27E-05	1.0E-06	4.0E-06	8.95E-04	8.0E-07	5.0E-07	2.55E-04
469821.29	3766824.66	3.0E-10	3.0E-10	5.14E-06	3.96E-06	1.2E-07	2.14E-05	5.0E-06	3.0E-06	9.07E-04	6.0E-07	4.0E-07	2.36E-04
469826.19	3766843.55	2.0E-10	2.0E-10	5.15E-06	3.94E-06	1.2E-07	2.01E-05	2.0E-06	2.0E-06	9.19E-04	4.0E-07	3.0E-07	2.17E-04
469831.09	3766862.44	1.0E-10	1.0E-10	5.16E-06	3.92E-06	1.2E-07	1.88E-05	1.0E-06	1.0E-06	9.31E-04	3.0E-07	2.0E-07	1.98E-04
469835.99	3766881.33	5.0E-11	5.0E-11	5.17E-06	3.90E-06	1.2E-07	1.75E-05	5.0E-06	5.0E-06	9.43E-04	2.0E-07	1.0E-06	1.79E-04
469840.89	3766900.22	4.0E-11	4.0E-11	5.18E-06	3.88E-06	1.2E-07	1.62E-05	2.0E-06	2.0E-06	9.55E-04	1.0E-07	5.0E-07	1.60E-04
469845.79	3766919.11	3.0E-11	3.0E-11	5.19E-06	3.86E-06	1.2E-07	1.49E-05	1.0E-06	1.0E-06	9.67E-04	8.0E-07	4.0E-07	1.41E-04
469850.69	3766938.00	2.0E-11	2.0E-11	5.20E-06	3.84E-06	1.2E-07	1.36E-05	5.0E-06	5.0E-06	9.79E-04	6.0E-07	3.0E-07	1.22E-04
469855.59	3766956.89	1.0E-11	1.0E-11	5.21E-06	3.82E-06	1.2E-07	1.23E-05	2.0E-06	2.0E-06	9.91E-04	4.0E-07	2.0E-07	1.03E-04
469860.49	3766975.78	5.0E-12	5.0E-12	5.22E-06	3.80E-06	1.2E-07	1.10E-05	1.0E-06	1.0E-06	1.00E-03	3.0E-07	1.0E-06	8.4E-05
469865.39	3766994.67	4.0E-12	4.0E-12	5.23E-06	3.78E-06	1.2E-07	9.7E-06	5.0E-06	5.0E-06	1.01E-03	2.0E-07	5.0E-07	6.6E-05
469870.29	3767013.56	3.0E-12	3.0E-12	5.24E-06	3.76E-06	1.2E-07	8.4E-06	2.0E-06	2.0E-06	1.02E-03	1.0E-07	4.0E-07	4.8E-05
469875.19	3767032.45	2.0E-12	2.0E-12	5.25E-06	3.74E-06	1.2E-07	7.1E-06	1.0E-06	1.0E-06	1.03E-03	5.0E-07	3.0E-07	3.0E-05
469880.09	3767051.34	1.0E-12	1.0E-12	5.26E-06	3.72E-06	1.2E-07	5.8E-06	5.0E-06	5.0E-06	1.04E-03	4.0E-07	2.0E-07	2.0E-05
469884.99	3767070.23	5.0E-13	5.0E-13	5.27E-06	3.70E-06	1.2E-07	4.5E-06	2.0E-06	2.0E-06	1.05E-03	3.0E-07	1.0E-06	1.0E-05
469889.89	3767089.12	4.0E-13	4.0E-13	5.28E-06	3.68E-06	1.2E-07	3.2E-06	1.0E-06	1.0E-06	1.06E-03	2.0E-07	5.0E-07	5.0E-06
469894.79	3767108.01	3.0E-13	3.0E-13	5.29E-06	3.66E-06	1.2E-07	2.0E-06	5.0E-06	5.0E-06	1.07E-03	1.0E-07	4.0E-07	4.0E-06
469899.69	3767126.90	2.0E-13	2.0E-13	5.30E-06	3.64E-06	1.2E-07	1.8E-06	2.0E-06	2.0E-06	1.08E-03	5.0E-07	3.0E-07	3.0E-06
469904.59	3767145.79	1.0E-13	1.0E-13	5.31E-06	3.62E-06	1.2E-07	1.6E-06	1.0E-06	1.0E-06	1.09E-03	4.0E-07	2.0E-07	2.0E-06
469909.49	3767164.68	5.0E-14	5.0E-14	5.32E-06	3.60E-06	1.2E-07	1.4E-06	5.0E-06	5.0E-06	1.10E-03	3.0E-07	1.0E-06	1.0E-06
469914.39	3767183.57												

46935.99	376647.24	1.17E-06	6.21E-07	9.51E-06	8.56E-06	1.11E-06	5.71E-05	4.34E-05	1.49E-05	3.24E-04	1.35E-05	2.59E-05	4.99E-04
46936.58	376648.00	1.34E-06	2.52E-05	2.28E-05	2.48E-05	2.50E-05	3.80E-05	1.30E-05	3.88E-05	3.74E-05	3.78E-05	1.39E-04	5.73E-04
469786.34	376622.50	3.88E-06	3.76E-06	3.61E-06	3.76E-06	3.76E-06	2.86E-06	2.86E-06	2.86E-06	2.86E-06	2.86E-06	4.45E-05	2.88E-04
469190.65	376594.78	1.37E-06	9.70E-06	4.02E-05	1.93E-05	3.53E-05	2.23E-05	7.03E-05	4.35E-05	1.62E-04	4.53E-05	9.64E-05	4.91E-04
469202.71	376628.69	1.08E-06	2.22E-06	2.65E-05	4.24E-06	6.80E-05	2.85E-05	4.93E-05	1.82E-04	1.82E-04	3.82E-05	6.02E-05	4.73E-04
469197.01	376634.95	1.31E-06	1.83E-06	1.83E-06	1.83E-06	1.83E-06	1.73E-06	1.73E-06	1.73E-06	1.73E-06	1.73E-06	4.73E-04	4.73E-04
469555.26	376647.36	1.19E-06	6.18E-07	8.75E-06	7.90E-06	1.11E-06	5.47E-05	1.47E-05	1.47E-05	1.47E-05	1.34E-05	2.51E-05	4.90E-04
469791.24	376627.79	3.39E-06	1.20E-06	3.74E-06	3.62E-06	2.13E-06	3.61E-05	8.32E-05	2.75E-05	2.08E-04	2.66E-05	4.62E-05	4.41E-04
469205.71	376620.89	1.36E-06	2.11E-06	2.11E-06	2.11E-06	2.11E-06	2.11E-06	2.11E-06	2.11E-06	2.11E-06	2.11E-06	5.73E-05	4.71E-04
469796.14	376626.68	3.05E-06	1.14E-06	3.74E-06	2.05E-06	3.68E-05	3.68E-05	2.57E-05	2.08E-04	2.08E-04	2.66E-05	4.62E-05	4.41E-04
469778.41	376635.94	2.02E-06	9.10E-07	4.00E-06	1.64E-06	4.40E-05	7.93E-05	1.89E-05	2.45E-04	2.45E-04	1.91E-05	3.34E-05	4.50E-04
469245.72	376627.20	1.24E-06	1.24E-06	1.24E-06	1.24E-06	1.24E-06	1.24E-06	1.24E-06	1.24E-06	1.24E-06	2.56E-05	2.56E-05	4.83E-04
469191.84	376607.10	1.11E-06	3.16E-06	2.20E-05	2.71E-05	5.74E-06	5.65E-05	2.64E-05	4.59E-05	2.64E-05	4.68E-05	6.80E-05	4.69E-04
469785.40	376614.48	6.69E-06	1.51E-06	3.33E-06	2.69E-06	2.89E-05	6.91E-05	4.12E-05	1.79E-04	1.79E-04	3.44E-05	7.02E-05	4.40E-04
469795.20	376616.27	5.96E-06	1.39E-06	3.04E-06	2.47E-06	3.03E-05	1.46E-05	3.52E-05	1.89E-05	1.89E-05	3.31E-05	5.96E-05	4.36E-04
469208.71	376616.10	1.25E-06	1.90E-06	3.14E-06	2.42E-05	2.93E-05	2.93E-05	3.53E-05	1.89E-05	1.89E-05	3.47E-05	4.68E-05	4.68E-04
469190.67	376605.25	1.32E-06	3.54E-06	2.19E-05	2.74E-05	6.51E-06	5.26E-05	2.59E-05	4.83E-05	1.63E-04	4.35E-05	7.17E-05	4.62E-04
469157.51	376607.92	1.15E-06	2.05E-06	2.16E-05	2.76E-05	7.36E-06	4.86E-05	2.51E-05	3.08E-05	1.55E-04	4.35E-05	7.47E-05	4.60E-04
469800.10	376625.16	4.40E-06	1.33E-06	3.47E-06	3.42E-06	2.37E-06	3.13E-05	5.37E-05	1.90E-04	1.90E-04	3.26E-05	5.52E-05	4.32E-04
469790.30	376616.37	5.77E-06	1.45E-06	3.39E-06	3.36E-06	2.58E-06	2.96E-05	7.08E-05	3.80E-05	1.84E-04	3.36E-05	6.46E-05	4.36E-04
469574.52	376616.47	1.32E-06	3.98E-06	2.16E-05	2.76E-05	7.36E-06	4.86E-05	2.51E-05	3.08E-05	1.55E-04	4.35E-05	7.47E-05	4.60E-04
469211.70	376618.30	1.23E-06	1.74E-06	2.08E-05	2.55E-05	3.15E-06	2.65E-05	2.96E-05	3.35E-05	1.84E-04	3.26E-05	5.26E-05	4.63E-04
469651.70	376645.63	1.33E-06	6.45E-07	6.19E-06	5.69E-06	1.14E-06	4.75E-05	4.91E-05	1.44E-05	2.94E-04	1.34E-05	2.37E-05	4.57E-04
469157.50	376609.40	1.32E-06	3.98E-06	2.16E-05	2.76E-05	7.36E-06	4.86E-05	2.51E-05	3.08E-05	1.55E-04	4.35E-05	7.47E-05	4.60E-04
469792.17	376638.21	2.24E-06	9.73E-07	4.01E-06	3.83E-06	1.75E-06	4.11E-05	8.04E-05	2.05E-05	2.24E-04	2.09E-05	3.46E-05	4.34E-04
469801.04	376628.58	2.75E-06	1.09E-06	3.78E-06	3.64E-06	1.95E-06	3.73E-05	8.10E-05	2.40E-05	2.09E-04	2.41E-05	4.02E-05	4.29E-04
469214.70	376620.51	1.21E-06	1.62E-06	2.09E-05	2.56E-05	2.78E-06	7.82E-05	2.97E-05	1.19E-04	1.19E-04	3.68E-05	4.96E-05	4.96E-04
469184.33	376622.55	1.32E-06	4.52E-06	2.80E-05	2.78E-05	8.40E-06	5.34E-05	1.48E-04	4.39E-05	1.48E-04	4.39E-05	7.76E-05	4.55E-04
469761.19	376619.37	1.71E-06	8.06E-07	4.23E-06	1.46E-06	4.60E-05	6.76E-05	1.67E-05	2.67E-05	1.67E-05	1.62E-05	2.76E-05	4.48E-04
469242.71	376628.40	1.13E-06	1.13E-06	2.56E-05	3.07E-05	2.09E-06	3.16E-05	1.56E-05	2.02E-04	2.02E-04	2.38E-05	4.72E-05	4.72E-04
469190.09	376628.74	1.70E-06	1.70E-06	2.78E-05	1.28E-06	1.28E-06	1.28E-06	1.28E-06	1.28E-06	1.28E-06	1.28E-06	1.21E-04	4.73E-04
469789.37	376608.96	1.18E-05	1.68E-06	3.02E-06	2.97E-06	2.39E-05	5.40E-05	1.43E-05	2.53E-04	2.53E-04	1.37E-05	2.86E-05	4.35E-04
469593.79	376647.58	1.22E-06	6.13E-07	7.92E-06	6.84E-06	1.10E-06	4.96E-05	2.62E-05	4.56E-05	1.53E-04	1.31E-05	2.45E-05	4.97E-04
469211.70	376621.71	1.32E-06	1.52E-06	2.71E-06	2.71E-06	2.71E-06	2.71E-06	2.71E-06	2.71E-06	2.71E-06	2.84E-05	4.73E-05	4.48E-04
469181.16	376604.70	1.31E-06	5.16E-06	2.08E-05	2.79E-05	9.67E-06	4.18E-05	2.34E-05	5.61E-05	1.40E-04	4.34E-05	8.04E-05	4.50E-04
469182.02	376582.85	1.31E-06	3.45E-05	1.54E-05	3.34E-05	3.50E-05	2.79E-05	1.96E-05	7.96E-05	1.40E-04	3.84E-05	1.04E-04	4.70E-04
469794.27	376613.85	1.36E-06	3.05E-06	3.03E-06	3.03E-06	3.03E-06	3.03E-06	3.03E-06	3.03E-06	3.03E-06	3.03E-06	3.03E-06	4.36E-04
469805.94	376630.47	2.50E-06	1.03E-06	3.79E-06	3.64E-06	1.86E-06	3.77E-05	7.78E-05	2.24E-05	2.07E-04	2.27E-05	3.74E-05	4.18E-04
469804.07	376614.64	6.87E-06	1.50E-06	3.14E-06	3.15E-06	2.67E-06	2.58E-05	6.16E-05	4.19E-05	1.64E-04	3.55E-05	7.07E-05	4.16E-04
469178.00	376605.85	1.89E-06	1.89E-06	1.89E-06	1.89E-06	1.89E-06	1.89E-06	1.89E-06	1.89E-06	1.89E-06	1.89E-06	1.89E-06	4.43E-04
469799.17	376612.74	8.11E-06	1.56E-06	3.09E-06	3.11E-06	2.77E-06	2.48E-05	5.92E-05	4.54E-05	1.20E-04	7.64E-05	4.20E-04	4.20E-04
469808.97	376614.53	5.91E-06	3.44E-06	3.19E-06	3.18E-06	2.54E-06	2.67E-05	3.48E-05	3.87E-05	1.67E-04	3.54E-05	6.53E-05	4.13E-04
469797.07	376616.02	1.21E-06	2.78E-06	2.13E-05	2.83E-05	4.72E-06	4.72E-05	2.39E-05	4.52E-05	1.20E-04	4.24E-05	7.65E-05	4.24E-04
469220.69	376627.92	1.16E-06	9.42E-07	2.15E-05	2.56E-05	2.56E-05	7.93E-05	2.97E-05	2.88E-05	2.15E-04	2.67E-05	4.47E-05	4.47E-04
469278.79	376631.72	1.07E-06	1.68E-06	4.48E-07	4.49E-05	1.74E-06	8.67E-05	3.17E-05	2.22E-05	1.80E-04	1.93E-05	3.51E-05	4.88E-04
469670.96	376613.96	1.48E-06	1.48E-06	1.48E-06	1.48E-06	1.48E-06	1.48E-06	1.48E-06	1.48E-06	1.48E-06	1.48E-06	1.48E-06	4.43E-04
469813.87	376618.42	5.12E-06	1.38E-06	3.24E-06	3.21E-06	2.46E-06	2.77E-05	6.55E-05	1.59E-05	1.67E-05	3.35E-05	6.04E-05	4.07E-04
469174.83	376609.00	1.30E-06	6.75E-06	1.51E-05	2.77E-05	1.30E-05	3.59E-05	2.18E-05	4.14E-05	1.25E-04	4.12E-05	8.54E-05	4.38E-04
469616.15	376616.15	1.30E-06	1.30E-06	1.30E-06	1.30E-06	1.30E-06	1.30E-06	1.30E-06	1.30E-06	1.30E-06	1.30E-06	1.30E-06	4.43E-04
469779.86	376637.52	1.74E-06	8.23E-07	4.29E-06	4.05E-06	1.49E-06	4.37E-05	6.64E-05	1.67E-05	2.37E-04	1.65E-05	2.77E-05	4.20E-04
469818.77	376620.32	4.48E-06	1.33E-06	3.28E-06	3.28E-06	2.36E-06	2.87E-05	2.87E-05	3.33E-05	1.63E-04	3.59E-05	5.59E-05	4.01E-04
469222.69	376626.12	1.13E-06	1.26E-06	2.03E-05	2.11E-06	7.85E-06	2.55E-05	2.55E-05	2.55E-05	2.55E-05	2.55E-05	2.55E-05	4.24E-04
469810.84	376626.36	2.98E-06	9.87E-06	2.65E-05	2.65E-05	2.65E-05	2.65E-05	2.65E-05	2.65E-05	2.65E-05	2.65E-05	2.65E-05	4.36E-04
469176.53	376587.79	1.77E-06	1.66E-06	1.96E-05	4.35E-05	2.42E-05	1.80E-05	8.43E-05	3.40E-05	1.07E-04	4.50E-05	9.07E-05	4.50E-04
469171.66	376595.15	1.28E-06	7.67E-06	2.71E-05	1.53E-05	3.33E-05	2.09E-05	6.40E-05	1.17E-04	1.17E-04	3.97E-05	8.29E-05	4.20E-04
469784.43	376604.54	3.84E-06	1.84E-06	2.84E-06	2.84E-06	2.84E-06	2.84E-06	2.84E-06	2.84E-06	2.84E-06	2.84E-06	1.19E-04	4.47E-04
469793.33	376602.43	2.66E-05	1.83E-06	2.57E-06	3.86E-06	1.87E-05	3.95E-05	1.83E-05	6.83E-05	1.17E-04	3.18E-05	1.11E-04	4.31E-04
469783.53	376598.65	6.21E-05	3.95E-06	2.50E-06	3.38E-06	1.70E-05	3.42E-05	1.04E-04	1.04E-04	1.04E-04	3.66E-05	1.28E-04	4.77E-04
469701.62	376601.87	1.48E-07	1.48E-07	1.48E-07	1.48E-07	1.48E-07	1.48E-07	1.48E-07	1.48E-07	1.48E-07	1.48E-07	1.48E-07	4.43E-04
469798.23	376604.33	1.97E-05	1.77E-06	2.72E-06	3.10E-06	1.95E-06	4.20E-05	6.30E-05	1.89E-05	1.89E-05	4.25E-04	4.25E-04	4.25E-04
469254.28	376632.40	1.08E-06	1.02E-06	2.54E-05	3.01E-05	1.83E-06	8.21E-05	3.04E-05	2.35E-05	1.93E-04	2.07E-05	3.78E-05	4.46E-04
469803.14	376603.22	1.72E-06	1.72E-06	1.72E-06	1.72E-06	1.72E-06	1.72E-06	1.72E-06	1.72E-06	1.72E-06	1.72E-06	1.72E-06	4.43E-04
469823.67	376621.21	3.96E-06	1.27E-06	3.26E-06	2.76E-06	2.76E-06	2.76E-06	2.76E-06	2.76E-06	2.76E-06	2.76E-06	2.76E-06	3.96E-04
469781.02	376609.32	1.23E-06	2.62E-06	2.12E-05	4.83E-06	5.34E-05	2.52E-05	4.11E-05	1.54E-04	1.54E-04	3.64E-05	6.16E-05	4.19E-04
469183.69	376601.62	1.26E-06	1.26E-06	1.26E-06	1.26E-06	1.26E-06	1.26E-06	1.26E-06	1.26E-06	1.26E-06	1.26E-06	1.26E-06	4.43E-04
469808.04	376608.11	1.22E-05	1.66E-06	2.87E-06	2.								

469262.06	3768382.13	9.73E-07	8.23E-07	2.44E-05	2.89E-05	1.47E-06	6.61E-05	2.74E-05	2.01E-05	1.71E-04	1.67E-05	3.38E-04	3.89E-04
469262.17	3767715.68	1.00E-06	2.89E-05	4.37E-06	5.94E-06	8.74E-05	1.50E-05	1.20E-05	8.02E-05	3.75E-05	2.09E-05	4.38E-04	3.47E-04
469881.55	3768739.86	1.17E-06	1.21E-06	1.61E-06	1.85E-06	1.48E-06	3.84E-05	1.66E-05	1.84E-04	1.58E-04	2.77E-05	3.47E-04	3.47E-04
469870.81	3768247.31	1.32E-06	1.17E-06	2.99E-06	2.65E-06	2.50E-06	5.50E-05	2.50E-05	2.81E-05	1.57E-04	2.51E-05	4.46E-05	3.37E-04
469864.97	3768148.00	6.03E-06	1.41E-06	2.68E-06	2.71E-06	2.50E-06	2.50E-05	4.44E-05	1.23E-04	1.23E-04	3.05E-05	6.62E-05	3.41E-04
469138.85	3765975.74	1.13E-06	1.15E-06	1.75E-06	1.16E-06	1.13E-06	1.12E-05	1.13E-05	1.13E-05	1.04E-04	1.21E-05	3.53E-04	3.76E-04
469147.88	3765795.75	1.11E-06	1.45E-05	1.84E-06	5.94E-05	3.50E-05	1.86E-05	1.48E-05	7.94E-05	1.57E-04	2.11E-05	3.72E-05	3.76E-04
469864.85	3768308.84	2.37E-06	1.02E-06	3.28E-06	3.18E-06	1.83E-06	3.03E-05	5.79E-05	2.25E-05	1.57E-04	2.11E-05	3.72E-05	3.76E-04
469860.88	3768080.88	5.17E-06	1.37E-06	2.73E-06	2.73E-06	2.73E-06	2.73E-06	2.73E-06	2.73E-06	2.73E-06	2.73E-06	2.73E-06	2.73E-06
469179.64	3768225.98	1.06E-06	1.26E-06	1.53E-05	5.83E-05	2.88E-05	2.88E-05	2.49E-05	2.40E-05	1.46E-04	2.40E-05	3.67E-04	3.67E-04
469857.98	3768351.47	1.97E-06	9.20E-07	3.47E-06	3.47E-06	3.47E-06	3.28E-05	5.72E-05	1.93E-05	1.67E-04	1.83E-05	3.19E-04	3.19E-04
469138.42	3768363.76	1.13E-06	3.90E-06	1.13E-06	2.07E-05	2.07E-05	2.24E-05	8.11E-05	8.11E-05	8.11E-05	8.11E-05	8.88E-05	3.74E-04
469535.77	376651.81	1.04E-06	5.81E-07	4.57E-06	1.04E-06	4.57E-06	1.04E-06	1.44E-05	1.54E-05	2.19E-04	1.15E-05	2.48E-05	3.69E-04
469516.50	376614.70	1.03E-06	6.00E-07	9.39E-06	1.08E-06	1.08E-06	4.48E-05	3.38E-05	1.56E-05	2.18E-04	1.20E-05	2.50E-05	3.71E-04
469874.78	3768379.79	4.60E-06	1.32E-06	2.78E-06	2.78E-06	2.78E-06	2.78E-06	2.78E-06	2.78E-06	2.78E-06	2.78E-06	2.78E-06	2.78E-06
469146.64	376777E.03	1.09E-06	1.55E-05	5.01E-05	1.05E-06	1.05E-06	1.75E-05	1.42E-05	8.02E-05	1.75E-04	2.36E-05	3.69E-04	3.69E-04
469240.75	3768338.14	9.77E-07	8.53E-07	1.97E-05	2.22E-05	1.54E-06	6.44E-05	2.66E-05	1.89E-05	1.62E-04	1.75E-05	3.26E-05	3.66E-04
469854.15	3768051.55	1.25E-06	5.68E-07	3.20E-06	3.19E-06	1.75E-06	3.50E-05	1.55E-05	1.65E-04	1.75E-04	1.98E-05	3.48E-05	3.90E-04
469879.68	3768204.69	4.07E-06	1.27E-06	2.82E-06	2.81E-06	2.25E-06	4.86E-05	3.30E-05	1.29E-04	2.72E-05	2.54E-05	3.78E-05	3.69E-04
469182.63	3768244.18	1.04E-06	1.17E-06	1.39E-05	1.52E-05	2.13E-06	5.84E-05	2.48E-05	2.28E-05	1.45E-04	2.28E-05	3.78E-05	3.45E-04
469555.03	376851.82	1.00E-06	5.68E-07	7.82E-06	7.82E-06	1.02E-06	4.05E-05	1.40E-05	2.12E-04	1.18E-05	2.21E-05	3.67E-04	3.67E-04
469766.06	3768454.28	1.37E-06	6.78E-07	4.53E-06	4.23E-06	1.22E-06	3.98E-05	4.40E-05	1.41E-05	1.26E-04	1.26E-05	2.31E-05	3.44E-04
469827.67	3768412.63	1.56E-06	7.79E-07	3.86E-06	3.67E-06	1.41E-06	3.64E-05	5.13E-05	1.56E-05	1.83E-04	1.48E-05	2.57E-05	3.37E-04
469871.75	3768327.71	2.17E-05	9.74E-07	3.20E-06	3.19E-06	1.75E-06	3.50E-05	1.55E-05	1.65E-04	1.75E-04	1.98E-05	3.48E-05	3.90E-04
469651.47	3768496.20	1.17E-06	5.79E-07	1.86E-06	5.68E-06	4.30E-05	3.43E-05	1.30E-05	1.83E-04	1.13E-05	2.18E-05	3.48E-05	3.90E-04
469130.35	3769396.87	1.13E-06	5.76E-06	1.13E-05	1.53E-05	1.16E-05	2.72E-05	1.78E-05	5.59E-05	9.35E-05	1.83E-05	7.60E-05	3.45E-04
469880.61	3768285.10	2.83E-06	1.07E-06	3.03E-06	3.03E-06	1.92E-06	2.77E-05	5.44E-05	2.46E-05	1.72E-04	2.28E-05	4.02E-05	3.26E-04
469853.14	3768308.69	1.53E-06	1.26E-06	2.89E-06	2.89E-06	1.53E-06	3.06E-05	1.06E-05	3.86E-05	1.06E-05	1.48E-05	3.48E-05	3.48E-04
469884.58	3768223.58	3.62E-06	1.22E-06	2.83E-06	2.83E-06	2.17E-06	2.39E-05	1.08E-05	1.08E-05	1.08E-05	1.08E-05	1.08E-05	3.47E-04
469884.04	3768507.80	1.21E-06	1.60E-06	2.80E-06	2.37E-06	2.81E-06	1.63E-05	3.25E-05	1.91E-05	1.91E-05	2.67E-05	8.72E-05	3.47E-04
469854.24	3768629.80	1.69E-06	2.80E-06	2.80E-06	2.80E-06	2.80E-06	2.80E-06	2.80E-06	2.80E-06	2.80E-06	2.80E-06	2.80E-06	3.47E-04
469784.73	3768449.44	1.38E-06	6.92E-07	4.06E-06	1.25E-06	3.86E-05	4.47E-05	1.41E-05	1.95E-04	1.25E-04	1.28E-05	2.31E-05	3.40E-04
469145.63	3768138.08	1.07E-06	1.78E-06	1.22E-05	1.36E-05	3.26E-06	2.21E-05	3.29E-05	2.21E-05	1.97E-04	2.78E-05	5.04E-05	3.76E-04
469145.40	3768132.32	1.06E-06	1.66E-06	1.20E-06	1.20E-06	1.20E-06	1.20E-06	1.20E-06	1.20E-06	1.20E-06	1.20E-06	1.20E-06	3.76E-04
469868.94	3768086.48	9.85E-06	1.55E-06	2.37E-06	2.43E-06	2.72E-06	1.70E-05	3.45E-05	5.08E-05	1.02E-04	3.06E-05	8.15E-05	3.56E-04
469574.30	3768515.04	1.08E-06	5.59E-07	8.03E-06	7.29E-06	1.00E-06	4.09E-05	1.31E-05	2.13E-05	1.71E-04	1.17E-05	2.38E-05	3.58E-04
469884.98	3768280.98	1.06E-06	1.22E-06	1.41E-06	2.87E-06	1.41E-06	2.87E-06	1.46E-05	1.46E-05	1.46E-05	1.46E-05	1.46E-05	3.58E-04
469140.04	3768104.06	1.09E-06	2.04E-06	1.36E-05	3.77E-06	4.24E-05	2.15E-05	3.32E-05	1.23E-04	2.17E-05	2.86E-05	3.34E-04	3.34E-04
469185.63	3768262.39	1.02E-06	1.10E-06	1.29E-05	1.52E-05	2.00E-06	5.81E-05	2.45E-05	2.18E-05	1.44E-04	2.81E-05	3.62E-05	3.39E-04
469145.62	3768059.29	1.04E-06	1.64E-06	1.20E-06	1.20E-06	1.20E-06	1.20E-06	1.20E-06	1.20E-06	1.20E-06	1.20E-06	1.20E-06	3.76E-04
469136.87	3768086.21	1.09E-06	2.21E-06	1.19E-05	1.36E-05	4.10E-06	4.04E-05	2.10E-05	3.41E-05	1.29E-04	2.93E-05	3.32E-04	3.32E-04
469701.40	3768481.44	1.26E-06	6.22E-07	4.94E-06	1.12E-06	3.54E-05	3.95E-05	1.37E-05	2.01E-04	2.01E-04	2.28E-05	3.38E-04	3.38E-04
469121.93	3768369.69	1.08E-06	7.27E-06	1.27E-06	1.27E-06	1.27E-06	1.27E-06	1.27E-06	1.27E-06	1.27E-06	1.27E-06	1.27E-06	3.76E-04
469133.70	3768068.36	1.10E-06	2.41E-06	1.36E-05	4.48E-06	3.84E-05	2.06E-05	1.56E-05	1.11E-04	2.96E-05	3.31E-05	3.31E-04	3.31E-04
469216.25	3768328.82	9.79E-07	9.10E-07	1.63E-05	1.79E-05	1.64E-06	6.10E-05	2.55E-05	1.90E-05	1.55E-04	1.83E-05	3.21E-05	3.45E-04
469880.48	3768308.47	1.08E-06	1.17E-06	2.89E-06	2.89E-06	2.89E-06	2.89E-06	2.89E-06	2.89E-06	2.89E-06	2.89E-06	2.89E-06	3.76E-04
469885.51	3768304.00	2.40E-06	1.03E-06	3.12E-06	3.04E-06	1.84E-06	2.81E-05	5.33E-05	2.31E-05	1.44E-04	2.09E-05	3.80E-05	3.47E-04
469876.65	3768346.63	1.99E-06	9.32E-07	3.31E-06	3.20E-06	1.67E-06	3.07E-05	5.37E-05	1.98E-05	1.45E-04	1.83E-05	3.26E-05	3.20E-04
469515.62	3768749.49	1.00E-06	1.52E-06	1.22E-05	1.22E-05	1.22E-05	1.22E-05	1.22E-05	1.22E-05	1.22E-05	1.22E-05	1.22E-05	3.76E-04
469593.56	376651.15	1.09E-06	5.54E-07	7.46E-06	6.80E-06	9.94E-07	3.94E-05	3.50E-05	1.29E-05	2.08E-04	1.16E-05	2.12E-05	3.49E-04
469266.05	3768400.00	9.33E-07	8.29E-07	2.52E-05	2.95E-05	1.49E-06	6.01E-05	2.61E-05	1.92E-05	1.52E-04	3.01E-05	3.70E-04	3.70E-04
469141.36	3768736.60	1.04E-06	1.80E-05	4.40E-06	4.40E-06	4.40E-06	4.40E-06	4.40E-06	4.40E-06	4.40E-06	4.40E-06	4.40E-06	3.76E-04
469124.86	3768501.81	1.07E-06	1.95E-06	1.35E-05	1.85E-05	1.42E-05	3.55E-05	1.61E-05	8.77E-05	3.86E-05	7.80E-05	3.60E-05	3.47E-04
469295.79	3768430.03	9.17E-07	8.83E-07	5.50E-05	5.88E-05	1.88E-05	5.88E-05	1.45E-05	1.45E-05	1.45E-05	1.45E-05	1.45E-05	3.47E-04
469676.74	3768496.32	1.18E-06	5.83E-07	5.84E-06	5.84E-06	1.05E-06	4.17E-05	3.42E-05	2.09E-04	2.09E-04	1.16E-05	2.12E-05	3.55E-04
469872.85	3768398.98	1.08E-06	8.51E-06	1.35E-06	1.35E-06	1.35E-06	1.35E-06	1.35E-06	1.35E-06	1.35E-06	1.35E-06	1.35E-06	3.76E-04
469188.63	3768280.59	9.97E-07	1.04E-06	1.51E-05	1.51E-05	1.51E-05	1.51E-05	1.51E-05	1.51E-05	1.51E-05	1.51E-05	1.51E-05	3.47E-04
469823.79	3768431.41	1.44E-06	7.39E-07	3.93E-06	3.71E-06	1.33E-06	3.60E-05	4.70E-05	1.48E-05	1.78E-04	1.38E-05	2.48E-05	3.25E-04
469712.06	3768712.06	1.04E-06	1.64E-06	1.40E-06	1.40E-06	1.40E-06	1.40E-06	1.40E-06	1.40E-06	1.40E-06	1.40E-06	1.40E-06	3.76E-04
469130.54	3768050.51	1.10E-06	2.57E-06	1.34E-05	1.34E-05	1.34E-05	1.34E-05	1.34E-05	1.34E-05	1.34E-05	1.34E-05	1.34E-05	3.76E-04
469127.37	3768032.66	1.10E-06	2.82E-06	1.33E-05	1.33E-05	1.33E-05	1.33E-05	1.33E-05	1.33E-05	1.33E-05	1.33E-05	1.33E-05	3.76E-04
469154.61	3768140.19	1.08E-06	1.38E-06	1.20E-06	1.20E-06	1.20E-06	1.20E-06	1.20E-06	1.20E-06	1.20E-06	1.20E-06	1.20E-06	3.76E-04
469890.41	3768322.89	2.19E-06	9.84E-07	3.14E-06	3.05E-06	1.76E-06	2.85E-05	3.20E-05	2.17E-05	1.40E-04	2.97E-05	5.78E-05	3.20E-04
469124.20	3768014.81	1.09E-06	3.10E-06	1.33E-05	1.58E-06	3.26E-06	3.90E-05	3.98E-05	1.04E-04	2.96E-05	6.20E-05	3.21E-04	3.21E-04
469880.28	3768280.98	1.06E-06	1.22E-06	1.41E-06	2.87E-06	1.41E-06	2.87E-06	1.46E-05	1.46E-05	1.46E-05	1.46E-05	1.46E-05	3.76E-04
469869													

469268.10	3766454.58	8.39E-07	8.37E-07	3.01E-05	3.49E-05	1.50E-06	4.63E-05	2.28E-05	1.71E-05	1.34E-04	1.39E-05	2.67E-05	3.28E-04
469202.06	3766103.80	9.73E-07	1.71E-06	1.00E-05	3.17E-06	1.37E-06	3.43E-05	1.85E-05	1.68E-05	1.00E-04	2.34E-05	4.23E-05	2.69E-04
469518.28	3766101.27	9.74E-07	1.06E-06	1.00E-05	1.07E-06	1.37E-06	3.43E-05	1.85E-05	1.68E-05	1.00E-04	2.34E-05	4.23E-05	2.69E-04
469098.90	3766092.95	9.77E-07	1.84E-06	8.95E-06	3.40E-06	3.32E-05	3.32E-05	1.85E-05	1.77E-05	1.00E-04	2.34E-05	4.23E-05	2.69E-04
469535.54	3766538.58	9.43E-07	9.44E-07	8.49E-06	9.53E-07	3.43E-05	3.43E-05	2.81E-05	1.41E-05	1.61E-04	1.06E-05	2.29E-04	2.91E-04
469228.14	3766413.11	8.40E-07	1.23E-07	1.55E-05	1.55E-05	1.38E-06	4.75E-05	1.56E-05	1.56E-05	2.80E-04	2.80E-04	2.61E-05	2.87E-04
469701.17	3766520.01	1.12E-06	5.67E-07	5.36E-06	4.94E-06	1.02E-06	3.05E-05	1.50E-05	1.26E-05	1.07E-05	2.08E-05	2.78E-04	
469762.50	3766490.25	1.23E-06	6.21E-07	4.53E-06	4.22E-06	1.12E-06	2.87E-05	3.42E-05	1.35E-05	1.53E-04	1.11E-05	2.21E-05	2.74E-04
469631.98	3766614.66	1.40E-06	5.24E-07	5.43E-06	5.11E-06	1.12E-06	3.17E-05	3.42E-05	1.35E-05	1.53E-04	1.11E-05	2.21E-05	2.74E-04
469095.73	3766075.10	9.79E-07	1.97E-06	8.85E-06	3.67E-06	3.19E-05	3.19E-05	1.79E-05	1.89E-05	2.38E-04	2.38E-04	4.67E-05	2.67E-04
469090.13	3765799.38	9.49E-07	7.21E-06	6.89E-06	1.51E-05	1.67E-05	1.67E-05	1.29E-05	5.84E-05	6.02E-05	2.08E-05	7.58E-05	2.79E-04
469107.57	3766144.35	9.61E-07	1.50E-06	9.16E-06	9.16E-06	1.27E-06	3.07E-05	1.50E-05	1.27E-05	1.02E-04	2.23E-05	3.81E-05	2.67E-04
469136.72	3766618.31	8.88E-07	3.24E-05	2.85E-06	1.01E-04	1.12E-05	1.12E-05	1.03E-05	7.02E-05	1.03E-04	1.21E-05	3.82E-04	
469104.42	3765719.31	9.22E-07	1.14E-05	4.08E-06	2.44E-05	1.40E-05	1.40E-05	1.17E-05	6.47E-05	5.20E-05	1.77E-05	8.31E-05	2.89E-04
469092.56	3766027.25	9.80E-07	1.32E-06	9.89E-06	1.96E-06	1.35E-06	4.59E-05	1.95E-05	1.95E-05	2.49E-05	2.49E-05	2.46E-04	
469891.56	3766445.41	1.35E-06	7.29E-07	3.24E-06	1.31E-06	2.93E-05	2.93E-05	1.88E-05	1.46E-05	1.39E-04	1.39E-04	2.37E-05	
469936.54	3766398.78	1.56E-06	8.27E-07	3.02E-06	2.92E-06	1.49E-06	2.67E-05	4.05E-05	1.72E-05	1.28E-04	1.53E-05	2.79E-05	
469718.21	3766524.27	8.92E-07	1.58E-07	1.12E-05	1.12E-05	1.25E-05	1.25E-05	1.70E-05	1.15E-04	1.15E-04	1.65E-05	2.73E-04	
469120.56	3765162.55	9.53E-07	1.40E-06	9.94E-06	9.94E-06	2.57E-06	3.75E-05	1.92E-05	2.37E-05	1.03E-04	2.19E-05	3.67E-05	
469965.09	3766303.52	2.23E-06	1.01E-06	2.61E-05	2.57E-06	1.80E-06	2.19E-05	3.88E-05	2.38E-05	1.08E-04	1.89E-05	3.84E-05	
469119.95	3765658.95	8.97E-07	1.80E-05	3.25E-05	3.84E-06	4.21E-05	4.05E-05	1.09E-05	5.78E-05	4.62E-05	1.58E-05	8.77E-05	3.07E-04
469089.50	3765925.31	9.97E-07	3.86E-06	7.99E-06	9.82E-06	7.61E-06	2.29E-05	1.53E-05	4.03E-05	2.67E-04	2.38E-05	5.72E-05	
469089.39	3766039.40	9.79E-07	2.28E-06	8.99E-06	9.81E-06	4.28E-06	2.92E-05	1.71E-05	3.11E-05	9.10E-05	2.46E-05	2.60E-04	
469541.81	3766553.50	1.56E-07	1.16E-07	8.58E-06	7.76E-06	9.23E-07	3.37E-05	2.83E-05	1.60E-04	1.09E-05	2.02E-05	2.83E-04	
469147.57	3766268.65	9.12E-07	9.97E-07	1.02E-05	1.09E-05	1.81E-06	4.27E-05	2.10E-05	1.92E-05	1.10E-04	1.80E-05	3.04E-05	
469088.89	3765779.66	9.13E-07	7.83E-06	5.01E-06	6.22E-06	1.64E-05	1.59E-05	1.25E-05	5.89E-05	5.75E-05	1.74E-05	2.76E-04	
469143.57	3766250.45	9.28E-07	1.04E-06	1.02E-05	1.09E-05	1.90E-06	4.16E-05	2.07E-05	1.08E-04	1.19E-05	1.81E-05	2.60E-04	
469812.15	3766487.73	1.22E-06	1.33E-07	1.81E-06	1.81E-06	1.11E-06	1.11E-06	1.24E-05	1.11E-05	1.11E-05	2.19E-05	2.69E-04	
469964.04	3766341.49	1.91E-06	9.36E-07	2.70E-06	2.65E-06	1.67E-06	2.33E-05	3.94E-05	1.51E-05	1.37E-04	1.71E-05	2.57E-04	
469204.46	3766387.62	8.74E-07	7.47E-07	1.48E-05	1.48E-05	1.34E-06	4.49E-05	2.18E-05	2.17E-05	1.24E-04	1.47E-05	2.52E-04	
469086.22	3766021.55	9.77E-07	2.45E-07	9.72E-05	4.45E-05	9.72E-05	2.79E-05	1.28E-05	2.28E-05	2.83E-04	2.83E-04	4.81E-05	
469083.05	3766003.70	9.73E-07	2.69E-06	6.28E-06	9.66E-06	5.10E-06	2.66E-05	1.63E-05	5.82E-05	1.50E-04	2.93E-05	5.63E-05	
469651.25	3766534.78	1.04E-06	5.25E-07	5.65E-06	9.43E-07	3.44E-05	2.41E-05	2.71E-05	1.40E-05	1.80E-04	1.65E-05	1.59E-05	
469960.89	3766578.41	1.04E-06	7.22E-06	1.35E-06	1.35E-06	1.21E-06	2.59E-05	1.27E-05	1.82E-05	1.47E-04	1.82E-05	2.57E-04	
469973.95	3766260.89	2.65E-06	1.09E-06	2.43E-06	2.42E-06	1.93E-06	1.97E-05	3.60E-05	2.74E-05	1.95E-04	2.08E-05	4.42E-05	
469962.10	3766330.56	1.77E-06	9.00E-07	2.71E-06	2.71E-06	1.61E-06	2.41E-05	3.95E-05	1.98E-05	1.57E-04	1.63E-05	2.57E-04	
469574.07	3766501.67	9.07E-07	6.05E-07	7.52E-06	7.52E-06	1.02E-06	1.02E-06	1.02E-06	1.02E-06	1.02E-06	1.02E-06	1.02E-06	
469084.01	3766890.24	9.74E-07	4.47E-06	7.29E-06	9.05E-06	8.95E-06	2.07E-05	1.44E-05	7.12E-05	1.12E-05	1.68E-05	2.64E-04	
469103.18	3765699.59	9.03E-07	1.19E-05	4.52E-06	2.56E-05	1.33E-05	1.13E-05	6.39E-05	1.68E-05	1.68E-05	8.25E-05	2.84E-04	
469083.15	3766581.27	1.48E-06	1.48E-06	1.66E-06	1.66E-06	1.17E-06	1.43E-05	1.43E-05	1.43E-05	1.43E-05	2.16E-05	2.60E-04	
469079.88	3765985.85	9.68E-07	2.89E-06	8.06E-06	9.49E-06	5.52E-06	2.53E-05	1.99E-05	3.52E-05	2.24E-04	2.04E-05	5.21E-05	
469113.56	3766180.76	9.34E-07	1.31E-06	9.18E-06	2.39E-06	3.70E-05	3.70E-05	1.54E-05	2.27E-05	1.02E-04	2.04E-05	3.58E-05	
469931.84	3766591.84	1.07E-06	1.07E-06	1.28E-06	1.28E-06	1.36E-06	1.36E-06	1.73E-05	1.43E-05	1.43E-05	2.16E-05	2.57E-04	
469978.85	3766279.78	1.47E-06	7.43E-07	3.26E-06	3.12E-06	1.34E-06	2.80E-05	3.80E-05	2.59E-05	1.01E-04	1.93E-05	2.42E-05	
469230.47	3766431.63	9.23E-07	1.05E-06	2.44E-06	1.88E-06	2.02E-06	1.63E-05	1.63E-05	1.63E-05	1.63E-05	4.13E-05	2.54E-04	
469087.65	3765799.95	9.15E-07	8.32E-06	4.61E-06	5.66E-06	1.74E-05	1.51E-05	1.21E-05	5.91E-05	1.83E-05	7.69E-05	2.79E-04	
469141.58	3766232.24	9.37E-07	1.10E-06	1.01E-05	1.09E-05	1.99E-06	3.95E-05	1.89E-05	2.05E-05	1.07E-04	1.88E-05	3.21E-05	
469070.51	3766534.89	9.80E-07	1.30E-06	5.82E-06	6.83E-06	1.95E-06	2.83E-05	1.58E-05	5.64E-05	1.58E-05	1.58E-05	2.69E-04	
469150.57	3766286.86	8.95E-07	9.39E-07	1.01E-05	1.08E-05	1.70E-06	4.20E-05	2.08E-05	1.83E-05	1.10E-04	1.70E-05	2.96E-05	
469593.34	3766553.72	9.71E-07	5.06E-07	7.38E-06	9.07E-07	3.17E-05	2.84E-05	1.85E-05	1.01E-04	1.01E-04	1.01E-04	1.72E-04	
469118.71	3766569.23	8.74E-07	1.95E-05	1.02E-06	3.51E-06	4.08E-05	1.16E-05	1.04E-05	6.98E-05	4.42E-05	1.56E-05	3.89E-04	
469883.75	3766568.68	2.02E-06	1.26E-06	2.68E-06	2.68E-06	1.26E-06	1.26E-06	1.26E-06	1.26E-06	1.26E-06	1.26E-06	1.26E-06	
469850.09	3766475.13	1.75E-06	6.63E-07	3.87E-06	3.87E-06	1.13E-06	2.98E-05	3.52E-05	1.36E-05	1.16E-04	1.16E-04	2.21E-05	
469826.57	3766486.08	8.18E-07	7.60E-07	4.49E-05	4.28E-05	1.33E-06	4.49E-05	2.22E-05	1.61E-05	1.36E-04	1.21E-05	2.52E-05	
469887.83	3766463.49	9.08E-07	1.28E-06	6.94E-06	1.34E-06	1.87E-06	1.87E-06	1.39E-05	1.39E-05	1.39E-05	2.73E-05	3.28E-04	
469078.51	3765855.17	9.48E-07	5.00E-06	8.09E-06	1.01E-05	1.87E-05	1.87E-05	1.36E-05	5.54E-05	2.09E-05	6.59E-05	2.61E-04	
469101.34	3766269.87	8.81E-07	3.29E-05	4.13E-06	4.13E-06	2.77E-05	1.26E-05	1.08E-05	6.30E-05	4.72E-05	1.59E-05	8.17E-05	
469086.41	3766501.67	9.07E-07	7.80E-07	1.81E-05	1.81E-05	1.18E-05	1.18E-05	1.79E-05	1.79E-05	1.79E-05	7.69E-05	2.48E-04	
469984.75	3766336.49	9.91E-06	9.41E-07	2.59E-06	2.54E-06	1.68E-06	1.68E-06	2.16E-05	1.48E-04	1.48E-04	3.48E-05	2.88E-04	
469988.65	3766317.57	2.05E-06	9.75E-07	2.52E-06	2.48E-06	1.74E-06	2.11E-05	3.63E-05	2.30E-05	1.03E-04	1.80E-05	3.69E-05	
469901.17	3766578.38	1.17E-06	2.01E-06	1.33E-06	1.33E-06	1.29E-06	1.29E-06	1.79E-05	1.79E-05	1.79E-05	2.87E-05	2.87E-04	
469980.84	3766355.40	1.78E-06	9.07E-07	2.60E-06	2.60E-06	1.62E-06	2.76E-05	3.71E-05	2.03E-05	1.27E-04	3.27E-05	2.76E-04	
469758.01	3766511.66	1.14E-06	5.91E-07	4.13E-06	3.78E-06	1.05E-06	2.78E-05	3.11E-05	1.45E-05	1.41E-04	1.05E-05	2.58E-04	
469975.53	3766505.16	1.17E-06	6.02E-07	1.43E-06	1.43E-06	1.27E-06	1.27E-06	1.63E-05	1.63E-05	1.63E-05	1.63E-05	2.87E-05	
469992.62	3766255.05	2.83E-06	1.08E-06	2.32E-06	2.32E-06	1.92E-06	1.84E-05	3.33E-05	1.97E-05	1.43E-04	1.97E-05	4.44E-05	
469929.15	3766434.54	1.38E-06	7.54E-07	3.13E-06	3.00E-06	1.36E-06	2.65E-05	3.69E-05	1.54E-05	1.24E-04	1.34E-05	2.49E-05	
469973.02	3766501.67	9.80E-07	1.27E-06	2.73E-06	2.73E-06	1.26E-06	1.26E-06	1.73E-05	1.43E-05	1.43E-05	2.16E-05	2.57E-04	
469116.56	3766198.96	9.22E-07	1.21E-06	9.05E-06	9.77E-06	2.21E-06	6.63E-05	1					

469704.37	376555.06	1.90E-06	1.85E-06	1.45E-06	1.50E-06	3.11E-06	8.50E-06	1.09E-05	6.61E-05	3.79E-05	1.23E-05	1.08E-04	2.538E-04
469064.69	376572.01	8.71E-07	7.48E-07	2.77E-06	1.52E-05	1.32E-05	1.70E-05	1.05E-05	2.80E-05	4.62E-05	1.58E-05	2.388E-04	2.388E-04
469574.00	376575.95	1.27E-06	1.39E-06	1.47E-06	3.17E-06	3.47E-06	7.20E-06	4.88E-06	3.22E-06	1.05E-06	1.05E-06	2.755E-04	1.17E-04
469190.23	376420.22	7.88E-07	6.69E-07	1.15E-05	1.20E-05	1.20E-05	3.72E-05	1.94E-05	1.40E-05	2.34E-05	1.24E-05	2.34E-05	2.34E-05
469051.64	376580.80	8.60E-07	4.91E-06	5.12E-06	6.11E-06	9.80E-06	1.60E-05	1.18E-05	4.32E-05	3.44E-05	1.73E-05	6.04E-05	2.286E-04
469762.96	376572.08	2.49E-06	1.82E-06	1.30E-06	1.31E-06	1.13E-06	6.13E-06	1.18E-05	1.18E-05	1.18E-05	1.18E-05	9.84E-05	9.84E-05
469094.53	376183.89	8.74E-07	1.20E-06	7.95E-06	8.56E-06	3.10E-05	3.10E-05	3.10E-05	6.20E-05	1.66E-05	1.66E-05	2.244E-04	2.244E-04
469080.22	376541.45	8.00E-07	1.17E-05	2.95E-06	3.41E-06	2.44E-05	1.12E-05	9.76E-06	5.52E-05	4.19E-05	1.37E-05	7.28E-05	2.480E-04
469846.29	376584.48	1.31E-07	6.11E-07	1.15E-06	1.15E-06	1.15E-06	2.10E-06	1.32E-05	1.06E-05	1.06E-05	1.06E-05	2.244E-04	2.244E-04
469049.16	376576.37	8.34E-07	5.50E-06	5.50E-06	5.50E-06	1.11E-05	1.40E-05	1.11E-05	4.86E-05	1.60E-05	1.60E-05	2.355E-04	2.355E-04
469096.99	376460.01	8.01E-07	1.64E-05	2.63E-06	3.01E-06	3.74E-05	1.04E-05	9.37E-06	5.68E-05	1.94E-05	1.36E-05	7.57E-05	2.631E-04
470044.62	376541.52	2.61E-06	1.07E-06	2.01E-06	1.88E-06	1.79E-06	1.79E-06	1.66E-05	2.71E-05	1.79E-05	1.79E-05	2.208E-04	2.208E-04
469516.05	376591.84	8.42E-07	5.27E-07	9.26E-06	9.38E-07	2.87E-05	2.87E-05	2.87E-05	5.74E-05	2.42E-05	2.42E-05	2.42E-05	2.42E-05
469675.08	376521.05	1.67E-06	1.84E-06	1.50E-06	1.30E-06	8.14E-06	1.30E-06	1.02E-05	6.64E-05	3.59E-05	1.17E-05	1.16E-04	2.514E-04
470205.13	376573.22	1.21E-06	1.45E-06	1.45E-06	1.52E-06	1.52E-06	2.00E-05	1.32E-05	1.47E-05	1.47E-05	1.47E-05	3.07E-05	2.385E-04
470053.52	376620.42	2.50E-06	1.04E-06	2.05E-06	2.06E-06	1.58E-05	1.58E-05	1.58E-05	3.16E-05	2.73E-05	1.72E-05	4.38E-05	2.183E-04
469826.91	376570.20	3.56E-06	1.67E-06	1.36E-06	1.36E-06	2.83E-06	9.85E-06	1.41E-05	5.73E-05	4.63E-05	1.41E-05	8.82E-05	2.406E-04
469022.19	376549.81	7.70E-07	1.76E-06	8.93E-07	2.29E-06	1.59E-06	1.87E-05	1.00E-05	2.89E-05	1.55E-05	1.55E-05	2.33E-05	2.154E-04
469045.90	376586.21	8.74E-07	3.28E-06	1.02E-05	7.11E-06	6.42E-06	1.90E-05	1.30E-05	3.52E-05	3.36E-05	1.86E-05	4.92E-05	2.223E-04
469535.31	376591.96	8.54E-07	4.89E-07	9.26E-06	8.34E-06	8.74E-07	2.82E-05	2.34E-05	1.28E-05	1.25E-04	9.44E-06	2.06E-05	2.379E-04
469792.25	376563.09	2.84E-06	1.75E-06	1.46E-06	1.29E-06	1.29E-06	1.29E-06	1.29E-06	5.88E-05	4.34E-05	1.36E-05	9.29E-05	2.423E-04
469063.45	376568.29	8.10E-07	8.10E-06	3.91E-06	3.91E-06	1.65E-05	1.20E-05	1.01E-05	5.24E-05	4.43E-05	1.44E-05	6.91E-05	2.351E-04
470058.43	376479.31	2.34E-06	1.01E-06	2.08E-06	2.08E-06	1.78E-06	1.63E-05	2.76E-05	2.59E-05	7.93E-05	1.71E-05	4.08E-05	2.165E-04
470051.89	376533.54	1.76E-06	8.93E-07	2.29E-06	1.59E-06	1.87E-05	1.00E-05	2.89E-05	1.55E-05	1.55E-05	1.55E-05	2.33E-05	2.154E-04
469131.54	376528.99	8.42E-07	8.86E-07	8.75E-06	9.29E-06	1.61E-06	3.40E-05	1.72E-05	1.72E-05	1.72E-05	1.72E-05	2.71E-05	2.234E-04
470059.51	376613.65	2.03E-06	9.50E-07	2.17E-06	2.16E-06	1.49E-06	1.74E-05	2.88E-05	2.34E-05	8.34E-05	1.64E-05	3.70E-05	2.154E-04
469047.92	376574.65	8.20E-07	5.83E-06	4.88E-06	1.17E-05	1.34E-05	1.34E-05	1.08E-05	4.84E-05	4.84E-05	4.84E-05	6.51E-05	2.288E-04
469097.53	376620.09	8.83E-07	1.12E-06	2.89E-06	2.89E-06	3.10E-05	3.10E-05	3.10E-05	6.20E-05	1.59E-05	1.59E-05	1.08E-05	2.203E-04
469111.76	376560.37	7.88E-07	2.87E-05	2.38E-06	2.63E-06	9.62E-06	9.62E-06	9.62E-06	8.92E-06	1.69E-05	1.22E-05	2.73E-05	3.170E-04
469865.21	376487.41	1.20E-06	6.43E-07	3.37E-06	3.37E-06	2.40E-05	2.40E-05	2.40E-05	1.34E-05	1.34E-05	1.34E-05	1.71E-05	2.207E-04
469611.75	376573.23	8.42E-07	5.82E-06	6.43E-06	6.43E-06	1.02E-05	1.02E-05	1.02E-05	1.02E-05	1.02E-05	1.02E-05	1.79E-05	1.79E-05
470063.33	376628.20	2.18E-06	9.76E-07	2.11E-06	2.10E-06	1.73E-06	1.67E-05	2.80E-05	2.46E-05	1.05E-05	1.67E-05	3.88E-05	2.145E-04
469554.38	376592.07	8.66E-07	4.76E-07	8.44E-06	7.64E-06	8.51E-07	2.77E-05	2.36E-05	1.12E-05	1.02E-04	9.37E-06	1.82E-05	2.229E-04
469850.84	376573.22	1.65E-06	1.65E-06	1.65E-06	1.65E-06	1.75E-06	1.75E-06	1.75E-06	3.50E-05	3.50E-05	3.50E-05	2.384E-04	2.384E-04
469789.42	376563.88	1.06E-06	5.60E-07	3.87E-06	3.55E-06	9.95E-07	2.36E-05	2.66E-05	1.17E-04	9.64E-06	2.17E-05	2.220E-04	2.220E-04
469757.60	376560.97	2.28E-06	1.77E-06	1.47E-06	2.99E-06	8.84E-06	8.84E-06	8.84E-06	6.03E-05	1.28E-05	2.76E-05	2.413E-04	2.413E-04
469771.38	376571.15	1.65E-06	1.65E-06	1.65E-06	1.65E-06	1.65E-06	1.65E-06	1.65E-06	3.50E-05	3.50E-05	3.50E-05	2.384E-04	2.384E-04
469221.03	376481.96	7.49E-07	6.92E-07	1.37E-05	1.49E-05	1.24E-05	1.87E-05	1.87E-05	1.57E-05	1.03E-04	1.18E-05	2.48E-05	2.385E-04
469699.01	376534.95	1.76E-06	1.76E-06	1.42E-06	1.48E-06	3.01E-06	8.20E-06	1.04E-05	4.34E-05	1.18E-05	1.18E-05	2.433E-04	2.433E-04
469645.79	376528.04	1.08E-06	1.08E-06	1.41E-06	1.18E-06	1.18E-06	7.02E-06	1.10E-05	1.10E-05	1.10E-05	1.10E-05	2.450E-04	2.450E-04
469806.45	376526.62	1.08E-06	5.65E-07	3.64E-06	3.37E-06	2.32E-05	2.69E-05	1.37E-05	1.37E-05	9.7E-06	2.20E-04	2.20E-04	2.20E-04
470048.08	376671.98	1.58E-06	8.93E-07	2.35E-06	2.31E-06	1.01E-06	1.91E-05	2.97E-05	8.91E-05	1.44E-05	1.31E-05	2.122E-04	2.122E-04
469821.55	376573.22	1.65E-06	1.65E-06	1.65E-06	1.65E-06	1.65E-06	1.65E-06	1.65E-06	3.50E-05	3.50E-05	3.50E-05	2.384E-04	2.384E-04
469651.02	376573.35	9.40E-07	4.84E-07	6.10E-06	8.69E-07	2.75E-05	2.75E-05	2.75E-05	1.10E-04	8.69E-06	1.78E-05	2.260E-04	2.260E-04
469626.60	376516.98	7.47E-07	6.60E-07	1.18E-06	2.22E-05	1.18E-06	3.40E-05	1.91E-05	1.49E-05	1.06E-04	1.23E-05	2.525E-04	2.525E-04
469054.58	376563.99	8.83E-07	9.88E-07	1.76E-06	1.66E-06	2.19E-06	4.43E-05	4.43E-05	7.48E-05	1.55E-05	1.55E-05	2.33E-05	2.154E-04
469078.98	376561.93	7.88E-07	1.21E-05	2.78E-06	3.19E-06	2.58E-05	1.07E-05	9.43E-06	5.38E-05	4.74E-05	7.18E-05	2.434E-04	2.434E-04
469100.52	376620.30	8.52E-07	1.05E-06	7.87E-06	8.41E-06	1.92E-06	3.10E-05	1.59E-05	1.91E-05	8.62E-05	1.53E-05	2.99E-05	2.717E-04
469571.85	376573.22	1.65E-06	1.65E-06	1.65E-06	1.65E-06	1.65E-06	1.65E-06	1.65E-06	3.50E-05	3.50E-05	3.50E-05	2.384E-04	2.384E-04
469040.41	376586.14	8.56E-07	3.61E-06	5.58E-06	6.58E-06	7.10E-06	1.23E-05	1.23E-05	3.65E-05	5.93E-05	1.76E-05	5.06E-05	2.176E-04
469051.41	376406.14	8.64E-07	1.86E-06	7.59E-06	7.59E-06	3.48E-06	2.42E-05	1.41E-05	2.63E-05	7.34E-05	1.77E-05	3.87E-05	2.149E-04
469005.75	376601.84	8.62E-07	1.64E-06	6.80E-06	7.68E-06	3.04E-06	2.44E-05	1.44E-05	2.59E-05	7.59E-05	1.73E-05	2.144E-04	2.144E-04
469602.21	376573.22	1.65E-06	1.65E-06	1.65E-06	1.65E-06	1.65E-06	1.65E-06	1.65E-06	3.50E-05	3.50E-05	3.50E-05	2.384E-04	2.384E-04
469786.89	376563.98	2.61E-06	1.74E-06	1.33E-06	1.42E-06	2.90E-06	9.09E-06	1.24E-05	5.76E-05	4.17E-05	1.31E-05	9.24E-05	2.364E-04
469600.52	376509.69	8.60E-07	1.54E-06	7.72E-06	2.88E-06	2.61E-05	2.61E-05	2.61E-05	2.37E-05	7.70E-05	1.71E-05	2.642E-04	2.642E-04
469048.24	376573.22	8.62E-07	1.37E-06	8.60E-06	8.60E-06	1.50E-06	2.70E-05	2.70E-05	2.70E-05	2.70E-05	2.70E-05	3.36E-05	2.142E-04
469095.75	376581.29	7.80E-07	1.80E-05	2.46E-06	2.79E-06	9.93E-06	9.93E-06	9.93E-06	1.03E-05	1.24E-05	1.24E-05	7.37E-05	2.630E-04
469134.53	376408.19	8.26E-07	8.36E-07	8.65E-06	9.17E-06	1.51E-06	3.32E-05	1.64E-05	1.64E-05	1.64E-05	1.64E-05	2.179E-04	2.179E-04
469030.37	376573.96	1.66E-06	1.66E-06	1.66E-06	1.66E-06	1.66E-06	1.66E-06	1.66E-06	3.50E-05	3.50E-05	3.50E-05	2.384E-04	2.384E-04
469046.68	376573.93	8.07E-07	9.56E-06	4.08E-06	1.79E-05	1.28E-05	1.04E-05	1.04E-05	4.81E-05	4.15E-05	1.38E-05	6.48E-05	2.248E-04
470066.72	376401.15	1.44E-06	7.92E-07	2.49E-06	2.49E-06	1.41E-06	2.03E-05	1.01E-05	7.54E-05	9.40E-05	1.32E-05	2.79E-05	2.119E-04
469045.07	376602.44	8.84E-07	9.88E-07	7.39E-06	7.39E-06	3.19E-06	2.70E-05	2.70E-05	1.77E-05	7.02E-05	1.77E-05	2.131E-04	2.131E-04
469593.11	376592.29	8.84E-07	4.88E-07	7.29E-06	6.64E-06	8.38E-07	2.63E-05	2.36E-05	1.09E-05	1.21E-04	2.254E-04	2.254E-04	2.254E-04
469669.72	376501.94	1.56E-06	1.85E-06	1.46E-06	1.46E-06	3.12E-06	7.86E-06	9.74E-06	6.33E-05	1.45E-05	1.12E-05	1.06E-04	2.402E-04
469064.09	376573.22	1.65E-06	1.65E-06	1.65E-06	1.65E-06	1.65E-06	1.65E-06	1.65E-06	3.50E-05	3.50E-05	3.50E-05	2.384E-04	2

469084.49	3766241.64	7594E-07	9.935E-07	6.931E-06	7.333E-06	1.700E-06	2.740E-05	1.440E-05	1.717E-05	7.688E-05	1.340E-05	2.640E-05	1.932E-04
469115.50	3766311.33	7.822E-07	7.872E-07	7.520E-06	7.911E-06	1.430E-06	2.720E-05	1.500E-05	1.520E-05	8.030E-05	1.230E-05	2.490E-05	1.949E-04
469145.67	3766318.18	7.856E-07	8.155E-07	8.277E-06	8.277E-06	1.430E-06	2.720E-05	1.500E-05	1.520E-05	8.030E-05	1.230E-05	2.490E-05	1.949E-04
469682.92	3766477.62	1.465E-06	1.922E-06	1.272E-06	1.330E-06	1.300E-06	7.430E-06	9.151E-06	5.540E-05	1.230E-05	1.030E-05	9.050E-05	2.144E-04
469811.14	3766584.22	1.458E-07	3.990E-06	5.260E-06	7.030E-06	1.490E-05	1.070E-05	1.470E-05	5.070E-05	1.470E-05	1.490E-05	1.947E-04	4.490E-04
470032.83	3766545.76	1.240E-06	1.250E-06	1.250E-06	1.250E-06	1.250E-06	1.250E-06	1.250E-06	1.250E-06	1.250E-06	1.250E-06	1.250E-06	1.250E-06
469858.68	3766575.67	2.866E-06	1.531E-06	1.190E-06	1.230E-06	2.590E-06	8.860E-06	1.240E-05	1.480E-05	1.210E-05	1.470E-05	2.063E-04	7.470E-04
469887.78	3767038.68	3.110E-06	1.500E-06	1.140E-06	1.180E-06	2.540E-06	8.950E-06	1.270E-05	4.710E-05	1.440E-05	1.200E-05	7.530E-05	2.070E-04
470020.02	3766702.02	1.980E-07	6.980E-07	1.210E-06	1.210E-06	1.210E-06	1.210E-06	1.210E-06	1.210E-06	1.210E-06	1.210E-06	1.210E-06	1.210E-06
469794.73	3767050.55	2.111E-06	1.580E-06	1.370E-06	1.370E-06	2.660E-06	8.260E-06	1.090E-05	5.070E-05	1.370E-05	1.110E-05	2.093E-04	7.530E-04
469040.48	3766264.35	7.290E-07	8.140E-06	3.004E-06	1.640E-05	1.030E-05	8.880E-06	4.570E-05	1.800E-05	1.200E-05	6.130E-05	2.074E-04	7.530E-04
469141.15	3767378.61	1.020E-06	1.330E-06	1.330E-06	1.330E-06	1.330E-06	1.330E-06	1.330E-06	1.330E-06	1.330E-06	1.330E-06	1.330E-06	1.330E-06
469979.73	3766531.71	9.040E-07	6.080E-07	2.950E-06	2.170E-06	1.090E-06	7.70E-06	9.860E-06	5.300E-05	1.440E-05	1.080E-05	8.580E-05	2.107E-04
469730.15	3765254.53	1.700E-06	1.780E-06	1.220E-06	1.110E-06	2.980E-06	7.77E-06	9.860E-06	5.300E-05	1.440E-05	1.080E-05	8.580E-05	2.107E-04
469057.25	3766581.71	2.240E-07	1.090E-05	2.750E-06	1.740E-06	2.250E-06	9.610E-06	8.660E-06	1.560E-05	1.340E-05	1.160E-05	2.133E-04	6.390E-04
469013.29	3766937.25	7.920E-07	2.230E-06	6.050E-06	4.270E-06	1.890E-05	1.190E-05	2.710E-05	1.880E-05	1.510E-05	3.880E-05	1.902E-04	7.530E-04
469011.90	3765784.50	7.700E-07	3.810E-06	4.070E-06	5.040E-06	7.460E-06	1.400E-05	1.050E-05	1.540E-05	4.860E-05	1.450E-05	4.860E-05	1.931E-04
469918.06	3766438.18	1.170E-06	1.590E-07	9.770E-06	1.030E-05	1.070E-06	2.890E-05	1.640E-05	1.350E-05	8.670E-05	2.120E-05	1.990E-04	2.200E-04
469092.03	3765522.15	7.210E-07	2.260E-05	2.060E-05	2.290E-06	8.700E-06	1.010E-05	8.100E-06	4.860E-05	1.330E-05	1.070E-05	6.690E-05	2.614E-04
469824.03	3766562.56	2.370E-06	1.580E-06	1.250E-06	1.320E-06	2.670E-06	8.470E-06	1.150E-05	4.860E-05	3.860E-05	1.170E-05	7.760E-05	2.058E-04
469207.49	3766259.84	7.830E-07	8.830E-07	7.830E-07	7.830E-07	7.830E-07	7.830E-07	7.830E-07	7.830E-07	7.830E-07	7.830E-07	7.830E-07	7.830E-07
470010.17	3766469.93	1.170E-06	6.810E-07	2.660E-06	2.540E-06	1.220E-06	1.950E-05	2.590E-05	1.450E-05	8.600E-05	1.080E-05	2.290E-04	1.880E-04
469026.19	3765704.43	7.590E-07	5.130E-06	3.820E-06	4.390E-06	1.020E-05	1.190E-05	9.720E-06	3.980E-05	4.290E-05	1.340E-05	5.370E-05	1.957E-04
469190.03	3766500.85	6.910E-07	5.980E-07	1.030E-05	1.030E-05	1.030E-05	1.030E-05	1.030E-05	1.030E-05	1.030E-05	1.030E-05	1.030E-05	1.030E-05
469820.47	3766558.27	9.700E-07	5.400E-07	3.310E-06	3.080E-06	5.960E-07	2.040E-05	2.270E-05	1.280E-05	7.900E-05	8.770E-05	2.080E-04	1.900E-04
469007.79	3766902.18	7.811E-07	2.470E-06	5.100E-06	5.790E-06	4.740E-06	1.780E-05	1.140E-05	2.850E-05	1.570E-05	1.480E-05	4.010E-05	1.890E-04
469081.75	3766566.39	9.131E-07	5.380E-07	3.200E-06	3.200E-06	9.530E-07	2.560E-05	2.240E-05	1.270E-05	9.740E-05	8.690E-05	2.021E-04	1.912E-04
469706.86	3766514.52	1.530E-06	1.840E-06	1.110E-06	1.110E-06	1.290E-06	1.480E-06	1.280E-06	1.280E-06	1.280E-06	1.280E-06	1.280E-06	1.280E-06
469296.88	3766579.53	6.940E-07	2.480E-05	3.000E-05	1.030E-06	2.760E-05	1.730E-05	1.730E-05	1.130E-05	9.310E-05	2.070E-05	2.370E-04	7.530E-04
469817.20	3766550.16	9.880E-07	5.420E-07	2.980E-06	2.980E-06	9.590E-07	2.290E-05	2.290E-05	1.230E-05	9.580E-05	8.840E-05	2.040E-04	1.897E-04
469051.47	3766171.95	7.110E-07	6.710E-05	6.710E-05	6.710E-05	6.710E-05	6.710E-05	6.710E-05	6.710E-05	6.710E-05	6.710E-05	6.710E-05	6.710E-05
469787.02	3766575.51	9.310E-07	5.350E-07	3.600E-06	3.310E-06	9.470E-07	2.210E-05	2.210E-05	1.260E-05	9.600E-05	8.600E-05	1.910E-04	7.530E-04
469050.48	3766513.74	7.940E-07	1.150E-06	6.070E-06	2.120E-06	2.420E-06	1.340E-05	1.340E-05	7.030E-05	1.460E-05	2.880E-05	1.067E-04	7.530E-04
469626.70	3766520.71	1.820E-06	1.230E-06	1.020E-06	1.020E-06	1.020E-06	1.020E-06	1.020E-06	1.020E-06	1.020E-06	1.020E-06	1.020E-06	1.020E-06
469882.61	3766689.57	2.910E-06	1.480E-06	1.180E-06	1.180E-06	2.510E-06	8.740E-06	1.230E-05	4.560E-05	1.050E-05	1.170E-05	7.450E-05	2.024E-04
469010.66	3765764.79	7.030E-07	4.000E-06	1.480E-06	1.480E-06	7.860E-06	1.300E-05	1.020E-05	1.600E-05	4.020E-05	1.410E-05	4.590E-05	1.909E-04
469060.77	3766500.81	1.210E-06	1.290E-06	1.290E-06	1.290E-06	1.290E-06	1.290E-06	1.290E-06	1.290E-06	1.290E-06	1.290E-06	1.290E-06	1.290E-06
469237.29	3766558.58	6.840E-07	6.230E-07	1.420E-05	1.540E-05	1.120E-06	2.800E-05	1.660E-05	1.160E-05	8.830E-05	9.710E-05	2.150E-04	2.100E-04
469002.30	3765867.11	7.700E-07	2.770E-06	5.490E-06	5.330E-06	1.660E-05	1.660E-05	1.660E-05	1.030E-05	1.450E-05	1.450E-05	1.880E-04	7.530E-04
469960.76	3766632.02	9.820E-07	1.040E-06	1.040E-06	1.040E-06	1.040E-06	1.040E-06	1.040E-06	1.040E-06	1.040E-06	1.040E-06	1.040E-06	1.040E-06
469074.02	3765543.07	7.120E-07	1.570E-05	2.140E-06	2.400E-06	3.490E-05	8.180E-06	4.700E-05	1.390E-05	1.080E-05	6.480E-05	2.289E-04	7.530E-04
469853.32	3766656.56	2.630E-06	1.530E-06	1.280E-06	1.280E-06	2.590E-06	8.630E-06	1.190E-05	4.640E-05	1.370E-05	1.730E-05	2.031E-04	7.530E-04
469653.63	3766530.85	1.210E-06	1.210E-06	1.210E-06	1.210E-06	1.210E-06	1.210E-06	1.210E-06	1.210E-06	1.210E-06	1.210E-06	1.210E-06	1.210E-06
469975.88	3766550.36	9.220E-07	5.810E-07	2.980E-06	2.840E-06	1.050E-06	2.370E-05	1.120E-05	4.650E-05	1.140E-05	7.260E-05	2.071E-04	7.530E-04
469917.27	3765741.69	3.400E-06	1.120E-06	1.160E-06	1.160E-06	2.460E-06	8.360E-06	1.280E-05	4.050E-05	1.140E-05	1.780E-05	2.071E-04	7.530E-04
469171.81	3766632.02	9.190E-07	9.190E-07	9.190E-07	9.190E-07	9.190E-07	9.190E-07	9.190E-07	9.190E-07	9.190E-07	9.190E-07	9.190E-07	9.190E-07
469994.84	3765544.10	9.310E-07	5.950E-07	2.880E-06	2.750E-06	1.210E-05	2.390E-05	1.160E-05	1.460E-05	9.580E-05	1.840E-05	1.840E-05	1.840E-05
469039.24	3766604.64	7.140E-07	8.250E-06	2.560E-06	2.880E-06	1.660E-05	9.830E-06	3.860E-05	3.650E-05	1.150E-05	6.030E-05	2.025E-04	7.530E-04
469705.47	3766550.16	9.880E-07	5.050E-06	2.630E-06	2.630E-06	9.590E-07	2.290E-05	2.290E-05	1.230E-05	9.580E-05	8.840E-05	2.040E-04	1.897E-04
469998.67	3766525.56	1.000E-06	6.170E-07	2.220E-06	2.710E-06	1.110E-06	2.050E-05	2.430E-05	1.240E-05	9.800E-05	1.060E-05	1.850E-04	7.530E-04
469760.08	3765538.43	1.770E-06	1.700E-06	1.290E-06	1.290E-06	2.860E-06	7.780E-06	1.000E-05	5.050E-05	1.360E-05	1.080E-05	2.039E-04	7.530E-04
469024.95	3766684.71	7.640E-07	5.310E-06	7.440E-06	7.440E-06	1.050E-05	1.410E-05	1.410E-05	8.970E-05	1.250E-05	5.260E-05	1.926E-04	7.530E-04
469022.47	3766710.27	7.270E-07	6.240E-06	3.210E-06	3.210E-06	1.040E-05	1.040E-05	1.040E-05	4.310E-05	1.960E-05	1.580E-05	1.960E-05	1.960E-05
469961.29	3766449.97	1.170E-06	6.120E-07	2.290E-06	2.290E-06	1.090E-06	1.750E-05	2.470E-05	1.230E-05	9.010E-05	2.370E-04	7.530E-04	7.530E-04
469906.48	3766578.05	7.710E-07	8.350E-07	6.780E-06	7.150E-06	1.530E-06	2.670E-05	1.410E-05	1.570E-05	1.490E-05	1.280E-05	1.652E-04	7.530E-04
469818.67	3766578.05	7.710E-07	8.350E-07	6.780E-06	7.150E-06	1.530E-06	2.670E-05	1.410E-05	1.570E-05	1.490E-05	1.280E-05	1.652E-04	7.530E-04
469872.88	3766535.81	1.020E-06	5.430E-07	2.940E-06	2.940E-06	9.600E-07	1.920E-05	2.000E-05	1.270E-05	9.710E-05	8.820E-05	2.050E-04	7.530E-04
469009.42	3765745.07	7.510E-07	4.210E-06	3.990E-06	4.580E-06	8.230E-06	1.250E-05	9.920E-06	1.650E-05	4.450E-05	1.370E-05	4.990E-05	1.888E-04
469146.86	3766510.10	7.600E-07	6.000E-06	1.380E-06	1.380E-06	2.510E-06	8.740E-06	1.230E-05	4.560E-05	1.050E-05	1.170E-05	7.450E-05	2.024E-04
469677.56	3766458.51	1.170E-06	1.890E-06	1.300E-06	1.300E-06	2.510E-06	8.740E-06	1.230E-05	4.560E-05	1.050E-05	1.170E-05	7.450E-05	2.024E-04
469911.91	3767722.58	3.160E-06	1.440E-06	1.110E-06	1.110E-06	2.430E-06	8.570E-06	1.260E-05	4.500E-05	1.160E-05	7.110E-05	1.897E-04	7.530E-04
469632.20	3766570.21	6.820E-07	6.820E-07	1.600E-06	1.600E-06	2.430E-06							

489644.08	3768232.16	7.75E-07	1.36E-06	9.07E-07	9.45E-07	2.27E-06	4.87E-06	5.57E-06	2.72E-05	2.02E-05	5.92E-06	4.29E-05	1.128E-04
489811.36	3768244.74	4.77E-07	1.44E-06	1.55E-06	1.55E-06	9.31E-06	6.12E-06	5.56E-06	2.88E-05	2.27E-05	6.55E-06	4.77E-05	1.155E-04
489881.40	3768331.03	4.85E-07	1.07E-05	1.24E-06	1.24E-06	1.34E-06	5.15E-06	6.29E-06	2.55E-05	2.15E-05	6.28E-06	1.355E-04	1.355E-04
489502.15	3768182.85	6.47E-07	1.78E-06	9.15E-07	9.15E-07	2.94E-06	4.77E-06	5.56E-06	2.55E-05	2.15E-05	5.75E-06	1.128E-04	1.128E-04
489845.29	3768227.15	6.45E-07	3.20E-06	3.20E-06	3.20E-06	1.17E-06	1.07E-06	7.88E-06	1.09E-05	1.09E-05	7.05E-06	1.64E-04	1.64E-04
489694.07	376817.11	7.61E-07	1.26E-07	9.17E-07	9.17E-07	4.03E-06	4.03E-06	5.97E-06	2.07E-05	2.07E-05	4.21E-05	1.138E-04	1.138E-04
489125.70	3768678.22	4.79E-07	3.90E-07	3.75E-06	3.75E-06	6.98E-07	1.35E-05	1.35E-05	8.24E-06	8.24E-06	6.11E-06	1.36E-05	1.052E-04
489001.41	3768310.11	4.85E-07	1.41E-05	1.20E-06	1.20E-06	3.19E-05	5.53E-06	5.53E-06	1.49E-05	1.49E-05	6.17E-06	1.35E-05	1.478E-04
489891.36	3768061.66	4.75E-07	1.31E-06	1.60E-06	1.60E-06	6.60E-06	2.37E-06	2.37E-06	2.30E-05	2.30E-05	5.58E-06	1.128E-04	1.128E-04
489174.20	3768727.91	4.74E-07	3.82E-07	4.05E-06	4.05E-06	6.82E-07	1.35E-05	1.35E-05	8.23E-06	8.23E-06	6.10E-06	1.36E-05	1.063E-04
489892.30	3768331.25	4.79E-07	3.50E-07	3.48E-06	3.48E-06	9.96E-07	1.12E-05	8.19E-06	1.00E-05	1.00E-05	6.77E-06	1.53E-05	1.029E-04
489064.52	3768608.12	5.56E-07	1.38E-06	1.38E-06	1.38E-06	7.87E-07	1.28E-05	8.90E-06	2.31E-05	2.31E-05	4.31E-06	1.039E-04	1.039E-04
489582.10	3768198.05	6.81E-07	1.48E-06	8.88E-07	9.30E-07	2.45E-06	4.78E-06	5.88E-06	2.68E-05	2.68E-05	5.77E-06	4.27E-05	1.111E-04
489070.77	3768474.94	5.19E-07	4.30E-07	3.72E-06	3.80E-06	7.73E-07	1.36E-05	8.86E-06	8.74E-06	4.32E-05	6.13E-06	1.37E-05	1.033E-04
489127.03	3768168.99	5.67E-07	5.67E-07	5.67E-07	5.67E-07	1.21E-06	4.68E-06	4.77E-06	5.49E-06	5.49E-06	5.46E-06	1.138E-04	1.138E-04
489742.09	3768268.52	7.96E-07	1.15E-06	8.37E-07	8.85E-07	1.92E-06	4.94E-06	5.79E-06	2.61E-05	2.61E-05	6.01E-06	1.41E-04	1.101E-04
489408.00	3768169.16	5.95E-07	2.23E-06	9.32E-07	9.81E-07	3.65E-06	4.72E-06	5.14E-06	1.68E-05	1.52E-05	5.64E-06	4.19E-05	1.118E-04
489012.41	3768289.18	4.95E-07	1.41E-06	9.37E-07	9.86E-07	3.92E-06	4.72E-06	5.10E-06	2.07E-05	2.07E-05	6.06E-06	1.751E-04	1.751E-04
489434.99	3768169.21	6.06E-07	2.06E-06	9.24E-07	9.72E-07	3.39E-06	4.72E-06	5.16E-06	2.68E-05	2.44E-05	5.65E-06	4.29E-05	1.114E-04
488875.35	3768456.59	4.70E-07	3.46E-06	1.70E-06	1.76E-06	6.54E-06	6.29E-06	5.59E-06	2.27E-05	2.31E-05	6.57E-06	3.21E-05	1.104E-04
488858.58	3768497.12	4.71E-07	3.90E-06	1.94E-06	1.94E-06	5.46E-06	6.29E-06	5.59E-06	2.27E-05	2.31E-05	6.57E-06	3.21E-05	1.104E-04
488885.30	3768351.06	4.76E-07	5.35E-07	3.35E-06	3.44E-06	9.67E-07	1.31E-05	4.03E-06	8.82E-06	8.82E-06	6.66E-06	1.51E-05	1.051E-04
489354.02	3768169.04	5.71E-07	2.63E-06	9.43E-07	9.95E-07	4.26E-06	4.73E-06	5.08E-06	2.66E-05	1.91E-05	5.62E-06	4.14E-05	1.119E-04
489381.01	3768169.10	5.81E-07	2.41E-06	9.37E-07	9.86E-07	3.92E-06	4.72E-06	5.10E-06	2.07E-05	2.07E-05	6.06E-06	1.751E-04	1.751E-04
489461.98	3768169.27	6.15E-07	1.91E-06	9.15E-07	9.61E-07	3.15E-06	4.70E-06	5.17E-06	2.66E-05	2.44E-05	5.65E-06	4.29E-05	1.114E-04
489088.01	3768613.93	4.96E-07	4.17E-07	3.69E-06	3.76E-06	7.47E-07	1.31E-05	8.90E-06	8.69E-06	4.37E-05	6.17E-06	1.36E-05	1.031E-04
489012.47	3768425.90	4.85E-07	4.93E-07	3.46E-06	3.53E-06	8.89E-07	1.33E-05	8.28E-06	1.34E-05	1.34E-05	5.97E-06	1.40E-05	1.071E-04
489052.05	3768184.54	4.75E-07	1.54E-06	8.88E-07	9.29E-07	2.55E-06	4.72E-06	5.16E-06	2.68E-05	2.44E-05	5.65E-06	4.29E-05	1.114E-04
489828.13	3768174.10	4.70E-07	6.16E-06	1.32E-06	1.43E-06	1.20E-05	5.83E-06	5.83E-06	2.35E-05	2.18E-05	6.28E-06	1.34E-05	1.176E-04
489878.59	3768597.86	4.70E-07	3.04E-06	1.64E-06	1.64E-06	3.72E-06	7.54E-07	8.83E-06	8.74E-06	4.37E-05	5.98E-06	1.38E-05	1.025E-04
48946.14	3768331.17	4.72E-07	1.25E-07	1.28E-06	1.28E-06	1.72E-06	5.72E-06	6.28E-06	2.37E-05	2.37E-05	6.21E-06	1.127E-04	1.127E-04
48910.12	3768395.02	4.68E-07	5.03E-06	1.39E-06	1.49E-06	9.64E-06	5.94E-06	5.42E-06	2.32E-05	2.21E-05	6.34E-06	1.139E-04	1.139E-04
48984.15	3768332.24	4.73E-07	8.07E-06	1.24E-06	1.33E-06	1.79E-05	5.61E-06	5.28E-06	2.39E-05	2.28E-05	6.13E-06	1.34E-05	1.026E-04
489661.87	376861.87	4.73E-07	1.46E-06	7.25E-07	7.25E-07	2.07E-06	5.72E-06	5.72E-06	2.44E-05	2.44E-05	5.77E-06	1.080E-04	1.080E-04
489488.97	3768169.33	6.25E-07	1.79E-06	9.01E-07	9.45E-07	2.94E-06	4.69E-06	5.17E-06	2.63E-05	1.91E-05	5.62E-06	4.14E-05	1.096E-04
48948.28	3768245.36	6.40E-07	6.13E-07	3.14E-06	3.27E-06	1.11E-06	1.20E-05	7.83E-06	1.05E-05	1.05E-05	6.78E-06	1.59E-05	1.007E-04
489883.24	3768169.12	4.65E-07	4.05E-06	1.24E-06	1.24E-06	1.37E-06	5.29E-06	5.29E-06	2.19E-05	2.19E-05	6.15E-06	1.38E-05	1.031E-04
489097.43	3768630.00	4.91E-07	4.09E-07	3.69E-06	3.76E-06	7.33E-07	1.29E-05	8.86E-06	8.56E-06	4.38E-05	5.89E-06	1.40E-05	1.032E-04
48989.12	3768415.95	4.65E-07	4.07E-06	1.49E-06	1.58E-06	7.76E-06	6.03E-06	5.45E-06	2.27E-05	2.23E-05	6.38E-06	1.32E-05	1.050E-04
489060.73	3768331.45	5.26E-07	1.26E-06	1.61E-06	1.71E-07	2.07E-06	5.15E-06	6.08E-06	2.09E-05	2.09E-05	6.08E-06	1.751E-04	1.751E-04
489789.51	3768289.93	8.25E-07	1.07E-06	7.99E-07	8.56E-07	1.80E-06	4.96E-06	5.87E-06	2.52E-05	2.08E-05	6.06E-06	3.94E-05	1.077E-04
489892.16	3768111.32	4.73E-07	1.10E-05	1.19E-06	1.28E-06	2.35E-05	5.48E-06	5.22E-06	2.40E-05	2.09E-05	6.06E-06	1.44E-05	1.135E-04
489050.39	3768169.38	4.93E-07	1.41E-06	1.63E-06	1.74E-06	2.85E-06	4.64E-06	5.17E-06	2.63E-05	2.44E-05	5.65E-06	4.29E-05	1.114E-04
489713.03	3768124.20	7.48E-07	1.21E-06	8.61E-07	8.96E-07	2.01E-06	4.82E-06	5.16E-06	2.56E-05	2.01E-05	5.82E-06	4.02E-05	1.078E-04
489106.86	3768646.07	4.88E-07	4.02E-07	3.76E-06	3.76E-06	7.20E-07	1.27E-05	8.81E-06	4.44E-06	4.44E-06	6.08E-06	1.38E-05	1.018E-04
489115.96	3768169.18	4.93E-07	1.41E-06	1.63E-06	1.74E-06	2.85E-06	4.64E-06	5.17E-06	2.63E-05	2.44E-05	5.65E-06	4.29E-05	1.114E-04
488874.11	3768436.87	4.61E-07	3.51E-06	1.63E-06	1.68E-06	6.65E-06	6.11E-06	5.46E-06	2.22E-05	2.25E-05	6.38E-06	1.34E-05	1.081E-04
489000.17	3768290.39	4.73E-07	1.47E-05	1.15E-06	1.24E-06	3.40E-05	5.36E-06	5.15E-06	2.39E-05	2.04E-05	5.99E-06	3.45E-05	1.449E-04
489157.05	3768169.12	4.65E-07	4.05E-06	1.24E-06	1.24E-06	1.37E-06	5.29E-06	5.29E-06	2.19E-05	2.19E-05	6.15E-06	1.38E-05	1.031E-04
489627.02	3768199.84	6.85E-07	8.70E-07	9.08E-07	9.08E-07	2.27E-06	4.70E-06	5.34E-06	2.57E-05	2.05E-05	5.66E-06	4.04E-05	1.073E-04
489015.56	3768427.76	4.81E-07	3.76E-07	3.39E-06	3.49E-06	8.55E-07	1.30E-05	8.16E-06	8.07E-06	4.02E-05	6.27E-06	1.40E-05	9.945E-05
489394.82	3768125.45	5.77E-07	2.48E-06	9.54E-07	9.54E-07	3.60E-06	4.58E-06	5.08E-06	2.58E-05	2.18E-05	5.51E-06	1.080E-04	1.080E-04
489851.28	3768631.56	4.70E-07	5.90E-07	3.50E-07	3.50E-07	1.24E-05	5.15E-06	6.46E-06	1.02E-05	8.81E-05	6.46E-06	9.91E-05	9.91E-05
489069.17	3768581.79	5.00E-07	3.53E-06	3.60E-06	3.60E-06	7.49E-07	1.29E-05	8.63E-06	4.17E-05	4.17E-05	5.98E-06	1.35E-05	1.098E-05
48921.81	3768155.69	5.88E-07	2.07E-06	8.08E-07	8.08E-07	3.40E-06	4.63E-06	5.04E-06	2.58E-05	1.88E-05	5.50E-06	4.07E-05	1.079E-04
489597.86	3768182.82	6.48E-07	3.38E-07	9.03E-07	9.03E-07	2.28E-06	4.63E-06	5.04E-06	2.58E-05	1.88E-05	5.50E-06	4.07E-05	1.079E-04
489890.79	3768383.59	4.68E-07	5.04E-07	3.27E-06	3.37E-06	9.09E-07	1.29E-05	7.99E-06	4.39E-06	4.39E-06	6.39E-06	1.44E-05	9.88E-05
489167.83	3768155.58	5.65E-07	2.43E-06	9.20E-07	9.69E-07	3.95E-06	4.63E-06	4.99E-06	2.57E-05	1.87E-05	5.48E-06	1.39E-05	1.082E-04
489444.80	3768169.12	4.65E-07	4.05E-06	1.24E-06	1.24E-06	1.37E-06	5.29E-06	5.29E-06	2.19E-05	2.19E-05	6.15E-06	1.38E-05	1.031E-04
489311.85	3768155.47	5.47E-07	2.92E-06	9.85E-07	9.85E-07	4.69E-06	4.66E-06	4.98E-06	2.55E-05	1.87E-05	5.48E-06	1.39E-05	1.082E-04
489760.45	3768262.61	7.81E-07	1.08E-06	7.95E-07	8.50E-07	1.81E-06	4.84E-06	5.48E-06	2.49E-05	2.04E-05	5.83E-06	1.39E-05	1.090E-04
489816.10	3768457.80	4.65E-07	4.05E-06	1.24E-06	1.24E-06	1.37E-06	5.29E-06	5.29E-06	2.19E-05	2.19E-05	6.15E-06	1.38E-05	1.031E-04
489018.18	3768269.47	4.73E-07	2.19E-05	1.12E-06	1.20E-06	6.03E-06	5.23E-06	5.08E-06	2.38E-05	2.04E-05	5.83E-06	1.39E-05	1.090E-04
489059.75	3768665.71	5.02E-07	4.20E-07	3.46E-06	3.53E-06	7.53E-07	1.29E-05	8.52E-06	4.54E-06	4.12E-05	5.92E-06	1.34E-05	9.907E-05
489020.89	3768169.12	4.65E-07	4.05E-06	1.24E-06	1.24E-06	1.37E-06	5.29E-06	5.29E-06	2.19E-05	2.19E-05	6.15E-06	1.38E-05	1.031E-04
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469095.06	3766661.84	4.64E-07	3.71E-07	3.19E-06	3.32E-06	6.63E-07	1.13E-05	7.96E-06	7.75E-06	3.78E-05	5.24E-06	1.22E-05	9.014E-05
468851.14	3762378.34	4.55E-07	1.36E-06	1.43E-06	1.61E-06	6.31E-06	4.48E-06	4.48E-06	4.88E-06	2.03E-05	5.70E-06	9.742E-05	9.461E-05
469735.30	3765357.65	1.08E-07	1.08E-07	8.02E-07	8.38E-07	1.31E-07	4.46E-06	4.46E-06	2.22E-05	5.27E-06	3.47E-06	9.552E-05	3.47E-06
468841.18	3765273.31	1.43E-07	7.57E-06	1.18E-06	1.53E-05	1.18E-06	5.06E-06	4.80E-06	2.08E-05	1.80E-05	2.99E-05	1.107E-04	1.107E-04
469557.39	3765128.99	5.89E-07	1.12E-06	8.89E-07	2.20E-06	2.20E-06	4.81E-06	4.81E-06	2.25E-05	1.77E-05	5.09E-06	5.542E-05	5.542E-05
469402.22	3765037.36	1.54E-07	1.54E-07	8.67E-07	1.31E-06	1.31E-06	4.31E-06	4.31E-06	2.26E-05	5.06E-06	3.57E-06	9.374E-05	9.374E-05
469030.43	3765551.59	4.81E-07	3.88E-07	3.04E-06	7.15E-07	1.13E-05	7.60E-06	7.60E-06	3.65E-05	1.52E-05	5.42E-06	1.23E-05	8.875E-05
469672.19	3765164.17	6.38E-07	1.09E-06	7.84E-07	8.21E-07	1.82E-06	4.93E-06	4.93E-06	2.22E-05	1.81E-05	5.17E-06	3.47E-05	9.461E-05
469262.39	3765270.49	4.90E-07	1.08E-06	1.08E-06	1.28E-06	1.28E-06	4.28E-06	4.28E-06	2.02E-05	5.02E-06	3.49E-06	9.782E-05	9.782E-05
468959.19	3765253.38	4.12E-07	2.98E-06	1.14E-06	1.96E-05	1.96E-05	4.95E-06	4.73E-06	2.07E-05	1.74E-05	5.37E-06	1.061E-04	1.061E-04
469369.08	3765101.61	5.23E-07	2.24E-06	8.92E-07	3.33E-06	4.30E-06	4.62E-06	4.62E-06	2.23E-05	1.73E-05	5.00E-06	3.49E-05	9.574E-05
469640.99	3765101.26	6.20E-07	1.34E-06	7.88E-07	1.88E-06	1.84E-06	4.34E-06	4.34E-06	2.21E-05	1.79E-05	5.12E-06	9.422E-05	9.422E-05
469342.09	3765101.56	5.51E-07	2.23E-06	8.57E-07	3.63E-06	4.11E-06	4.61E-06	4.61E-06	2.23E-05	1.73E-05	5.00E-06	9.604E-05	9.604E-05
469021.19	376535.84	4.73E-07	4.03E-07	2.94E-06	3.00E-06	7.23E-07	1.12E-05	7.49E-06	7.95E-06	3.60E-05	5.41E-06	1.24E-05	8.800E-05
469396.07	3765101.67	5.89E-07	1.89E-07	9.84E-07	3.11E-06	1.29E-06	4.29E-06	4.31E-06	2.21E-05	1.79E-05	5.09E-06	9.338E-05	9.338E-05
469517.22	3765115.42	5.69E-07	1.42E-06	1.16E-06	2.36E-06	4.29E-06	4.73E-06	4.73E-06	2.23E-05	1.73E-05	5.45E-06	1.37E-05	9.455E-05
468971.77	3766386.80	4.20E-07	4.63E-07	2.85E-06	2.93E-06	8.36E-07	1.11E-05	7.11E-06	8.57E-06	3.47E-05	5.67E-06	1.31E-05	8.784E-05
469251.20	3765107.88	4.97E-07	1.48E-06	1.14E-06	1.22E-06	1.06E-05	1.10E-06	1.10E-06	2.20E-05	1.52E-05	5.48E-06	2.87E-05	9.652E-05
469697.23	3765170.84	6.45E-07	1.05E-06	7.77E-07	1.76E-06	1.76E-06	4.97E-06	4.99E-06	2.19E-05	1.82E-05	5.51E-06	3.46E-05	9.367E-05
469423.06	3765101.73	5.37E-07	1.78E-06	8.35E-07	8.75E-07	2.92E-06	4.27E-06	4.64E-06	2.22E-05	1.73E-05	4.98E-06	3.46E-05	9.483E-05
469385.93	3765101.73	4.21E-07	4.58E-06	1.29E-06	1.97E-06	1.97E-06	4.81E-06	4.81E-06	2.08E-05	1.54E-05	5.48E-06	2.84E-05	9.355E-05
469022.06	3765051.43	4.32E-07	4.07E-07	2.99E-06	3.05E-06	7.32E-07	1.13E-05	7.36E-06	7.94E-06	3.57E-05	5.40E-06	1.28E-05	8.762E-05
468867.91	3765338.29	4.20E-07	3.81E-06	1.26E-06	1.33E-06	7.24E-06	5.28E-06	4.85E-06	1.96E-05	1.96E-05	5.52E-06	2.81E-05	9.702E-05
469093.93	3765296.44	4.23E-07	1.48E-06	1.14E-06	1.22E-06	1.06E-05	1.10E-06	1.10E-06	2.20E-05	1.52E-05	5.48E-06	2.87E-05	9.652E-05
469012.63	3764685.35	4.28E-07	4.14E-07	2.95E-06	3.02E-06	7.43E-07	1.12E-05	7.31E-06	8.02E-06	3.51E-05	5.24E-06	1.24E-05	8.743E-05
469450.05	3765101.78	5.42E-07	1.66E-06	8.26E-07	8.65E-07	2.74E-06	4.26E-06	4.64E-06	2.21E-05	1.72E-05	4.97E-06	3.48E-05	9.411E-05
468840.90	3765339.22	4.18E-07	3.37E-06	1.33E-06	1.38E-06	6.30E-06	4.38E-06	4.87E-06	1.89E-05	1.98E-05	5.54E-06	2.74E-05	9.532E-05
468921.94	3765101.52	4.23E-07	6.36E-06	1.39E-06	1.17E-06	1.07E-06	4.20E-06	4.38E-06	2.15E-05	1.78E-05	5.38E-06	1.046E-04	1.046E-04
469544.21	3765115.47	5.73E-07	1.33E-06	8.02E-07	8.39E-07	2.20E-06	4.26E-06	4.72E-06	2.19E-05	1.74E-05	4.99E-06	3.43E-05	9.319E-05
469751.20	3765190.99	6.62E-07	1.03E-06	7.89E-07	8.14E-07	1.73E-06	4.37E-06	5.04E-06	2.14E-05	1.82E-05	5.14E-06	3.92E-05	9.235E-05
469067.28	3765101.67	5.18E-07	1.38E-07	8.23E-07	1.78E-06	1.78E-06	4.27E-06	4.27E-06	2.17E-05	1.79E-05	5.12E-06	3.39E-05	9.361E-05
469477.04	3765101.84	5.48E-07	1.54E-06	8.54E-07	2.55E-06	2.44E-06	4.64E-06	4.64E-06	2.17E-05	1.72E-05	4.98E-06	3.40E-05	9.324E-05
469272.65	3765104.31	4.86E-07	2.80E-06	8.62E-07	4.48E-06	4.29E-06	4.52E-06	4.52E-06	2.17E-05	1.71E-05	4.93E-06	3.53E-05	9.533E-05
469393.95	3765082.95	4.23E-07	1.56E-06	7.43E-07	1.13E-06	1.13E-06	4.29E-06	4.29E-06	2.15E-05	1.74E-05	5.08E-06	3.40E-05	9.380E-05
469011.96	3765625.09	4.43E-07	4.03E-07	2.86E-06	2.92E-06	7.24E-07	1.10E-05	7.29E-06	7.89E-06	3.51E-05	5.33E-06	1.22E-05	8.618E-05
469394.23	3765094.27	4.95E-07	2.45E-06	8.94E-07	3.97E-06	4.26E-06	4.52E-06	4.52E-06	2.16E-05	1.73E-05	4.96E-06	3.52E-05	9.421E-05
469071.07	3765074.56	5.46E-07	1.46E-06	7.95E-07	8.85E-07	2.35E-06	4.34E-06	4.52E-06	2.15E-05	1.74E-05	4.95E-06	3.57E-05	9.579E-05
469631.33	3765134.22	6.00E-07	1.12E-06	7.77E-07	8.11E-07	1.87E-06	4.26E-06	4.79E-06	2.15E-05	1.75E-05	4.99E-06	3.35E-05	9.165E-05
469504.03	3765101.90	5.03E-07	1.43E-06	8.05E-07	8.41E-07	2.37E-06	4.21E-06	4.63E-06	2.16E-05	1.72E-05	4.92E-06	3.37E-05	9.219E-05
469571.20	3765071.53	5.24E-07	1.54E-06	7.89E-07	8.26E-07	2.05E-06	4.24E-06	4.49E-06	2.15E-05	1.73E-05	4.94E-06	3.39E-05	9.171E-05
469687.63	3765154.90	6.25E-07	1.03E-06	7.62E-07	7.97E-07	1.72E-06	4.29E-06	4.87E-06	2.13E-05	1.77E-05	5.03E-06	3.32E-05	9.131E-05
469254.11	3765100.74	4.78E-07	2.95E-06	8.59E-07	9.06E-07	4.70E-06	4.27E-06	4.48E-06	2.14E-05	1.70E-05	4.89E-06	3.26E-05	9.455E-05
469717.10	3765101.78	6.18E-07	1.03E-06	7.67E-07	8.17E-07	1.76E-06	4.27E-06	4.87E-06	2.13E-05	1.77E-05	5.03E-06	3.32E-05	9.131E-05
469355.90	3765088.09	5.07E-07	2.05E-06	8.36E-07	8.72E-07	3.33E-06	4.22E-06	4.52E-06	2.15E-05	1.69E-05	4.88E-06	3.32E-05	9.291E-05
469382.89	3765088.15	5.51E-07	1.89E-06	8.29E-07	8.69E-07	3.10E-06	4.21E-06	4.53E-06	2.15E-05	1.70E-05	4.89E-06	3.33E-05	9.260E-05
469409.88	3765101.21	5.11E-07	1.76E-06	8.23E-07	8.61E-07	2.98E-06	4.20E-06	4.47E-06	2.15E-05	1.71E-05	4.91E-06	3.35E-05	9.215E-05
469631.33	3765313.58	4.12E-07	3.88E-06	1.20E-06	1.28E-06	7.35E-06	5.13E-06	4.73E-06	1.91E-05	1.89E-05	5.36E-06	2.74E-05	9.493E-05
468884.68	3765297.65	4.13E-07	4.74E-06	1.14E-06	1.21E-06	9.11E-06	5.04E-06	4.70E-06	1.93E-05	1.89E-05	5.32E-06	2.77E-05	9.749E-05
468844.66	3765082.66	4.28E-07	1.96E-06	1.29E-06	1.33E-06	6.30E-06	4.38E-06	4.87E-06	1.89E-05	1.98E-05	5.54E-06	2.74E-05	9.532E-05
468902.69	3765276.73	4.14E-07	4.54E-06	1.10E-06	1.17E-06	1.06E-05	1.09E-06	1.09E-06	2.14E-05	1.69E-05	4.88E-06	2.79E-05	9.953E-05
469285.30	3765090.63	5.48E-07	2.57E-06	8.45E-07	8.90E-07	4.14E-06	4.23E-06	4.47E-06	2.13E-05	1.69E-05	4.85E-06	3.25E-05	9.311E-05
469523.02	3765101.95	5.57E-07	1.36E-06	7.93E-07	8.32E-07	2.21E-06	4.19E-06	4.62E-06	2.12E-05	1.71E-05	4.92E-06	3.29E-05	9.099E-05
469426.87	3765101.26	5.77E-07	1.65E-06	8.35E-07	8.76E-07	2.75E-06	4.25E-06	4.68E-06	2.14E-05	1.69E-05	4.87E-06	3.31E-05	9.156E-05
469743.65	3765175.13	6.44E-07	1.98E-07	7.61E-07	7.92E-07	1.80E-06	4.30E-06	4.94E-06	2.08E-05	1.78E-05	5.04E-06	3.024E-05	9.024E-05
469877.48	3765443.72	4.12E-07	4.31E-07	2.74E-06	2.81E-06	7.76E-07	1.07E-05	6.92E-06	6.11E-06	3.96E-05	5.38E-06	1.24E-05	8.429E-05
469651.10	3765133.97	6.00E-07	1.06E-06	7.97E-07	8.27E-07	1.77E-06	4.27E-06	4.79E-06	2.14E-05	1.74E-05	4.99E-06	3.27E-05	8.999E-05
469463.86	3765088.32	5.32E-07	1.54E-06	8.04E-07	8.42E-07	2.54E-06	4.16E-06	4.54E-06	2.12E-05	1.69E-05	4.83E-06	3.29E-05	9.080E-05
469292.70	3765255.80	4.14E-07	6.12E-06	1.05E-06	1.13E-06	1.25E-05	4.86E-06	4.61E-06	1.94E-05	1.84E-05	5.19E-06	2.88E-05	1.019E-04
469262.17	3765076.98	4.68E-07	1.40E-06	7.67E-07	7.97E-07	1.77E-06	4.27E-06	4.89E-06	2.12E-05	1.71E-05	4.91E-06	3.26E-05	9.134E-05
469317.44	3765080.89	4.90E-07	2.25E-06	8.34E-07	8.75E-07	3.64E-06	4.18E-06	4.44E-06	2.10E-05	1.68E-05	4.80E-06	3.154E-05	9.154E-05
469558.01	3765102.01	5.60E-07	1.24E-06	7.81E-07	8.15E-07	2.07E-06	4.16E-06	4.61E-06	2.10E-05	1.70E-05	4.84E-06	3.26E-05	8.964E-05
469490.85	3765088.38	5.43E-07	1.74E-06	7.94E-07	8.30E-07	2.17E-06	4.15E-06	4.59E-06	2.10E-05	1.69E-05	4.80E-06	3.28E-05	8.989E-05
469678.02	3765138.96	6.05E-07	1.02E-06	7.15E-07	7.40E-07	1.70E-06	4.24E-06	4.77E-06	2.07E-05	1.74E-05	5.08E-06	3.20E-05	8.904E-05
469621.26	3765118.17	5.81E-07	1.11E-06	7.65E-07	7.99E-07	1.85E-06	4.17E-06	4.68E-06	2.08E-05	1.71E-05	4.87E-06	3.21E-05	8.912E-05
469380.71	3765074.63	5.69E-07	1.50E-06	7.81E-07	8.16E-07	2.05E-06	4.15E-06	4.65E-06	2.10E-05	1.69E-05	4.86E-06	3.29E-05	9.096E-05

469349.95	3765006.34	4.43E-07	1.67E-06	7.42E-07	7.75E-07	2.75E-06	3.75E-06	4.00E-06	1.76E-05	1.50E-05	4.22E-06	2.69E-05	7.782E-05
469281.33	3765009.26	4.29E-07	1.96E-06	7.25E-07	7.34E-07	3.02E-06	3.77E-06	3.98E-06	1.75E-05	1.50E-05	4.22E-06	2.67E-05	7.831E-05
469640.24	3765010.91	5.59E-07	6.88E-07	7.17E-07	7.17E-07	2.99E-06	3.83E-06	3.74E-06	1.74E-05	1.53E-05	4.22E-06	2.68E-05	7.813E-05
468880.05	3765180.41	3.66E-07	9.08E-07	9.67E-07	7.91E-07	4.27E-06	4.07E-06	4.07E-06	1.61E-05	1.46E-05	4.46E-06	8.294E-05	
469523.90	3765021.00	4.51E-07	1.12E-06	7.38E-07	1.87E-06	3.70E-06	4.09E-06	4.09E-06	1.75E-05	1.51E-05	4.22E-06	7.647E-05	
469438.75	3765096.31	1.34E-07	1.34E-06	7.23E-07	7.23E-07	3.72E-06	3.72E-06	3.72E-06	1.75E-05	1.50E-05	4.22E-06	7.677E-05	
469600.07	3765034.64	4.96E-07	9.90E-07	7.24E-07	7.36E-07	4.13E-06	4.13E-06	4.13E-06	1.73E-05	1.52E-05	4.24E-06	7.600E-05	
469331.20	3765002.73	4.37E-07	1.72E-06	7.41E-07	7.41E-07	2.83E-06	3.74E-06	3.97E-06	1.74E-05	1.49E-05	4.19E-06	7.732E-05	
469460.74	3765007.37	4.63E-07	1.26E-06	7.16E-07	7.16E-07	2.99E-06	3.71E-06	4.02E-06	1.74E-05	1.49E-05	4.19E-06	7.621E-05	
469262.79	3765005.69	4.17E-07	2.02E-06	7.85E-07	7.85E-07	3.75E-06	3.75E-06	3.94E-06	1.73E-05	1.49E-05	4.19E-06	7.649E-05	
469559.89	3765021.06	4.83E-07	1.05E-06	6.98E-07	7.27E-07	1.77E-06	3.71E-06	4.07E-06	1.72E-05	1.50E-05	4.20E-06	7.555E-05	
469400.89	3765093.03	4.48E-07	1.43E-06	7.23E-07	7.23E-07	3.70E-06	3.70E-06	3.98E-06	1.74E-05	1.49E-05	4.19E-06	7.624E-05	
468550.99	3765197.79	3.61E-07	3.62E-06	9.89E-07	6.73E-06	4.30E-06	4.30E-06	4.30E-06	1.58E-05	1.45E-05	4.41E-06	8.032E-05	
469312.45	3764999.12	4.30E-07	1.77E-06	7.40E-07	7.73E-07	2.91E-06	3.72E-06	3.94E-06	1.72E-05	1.48E-05	4.16E-06	7.677E-05	
469402.73	3765096.43	4.65E-07	1.19E-06	7.18E-07	7.18E-07	3.69E-06	3.69E-06	3.72E-06	1.73E-05	1.49E-05	4.17E-06	7.557E-05	
469667.23	3765048.27	5.09E-07	8.72E-07	7.01E-07	1.47E-06	4.72E-06	4.16E-06	4.16E-06	1.70E-05	1.52E-05	4.22E-06	7.480E-05	
469627.06	3765034.69	4.97E-07	9.33E-07	6.83E-07	7.11E-07	1.57E-06	3.70E-06	4.11E-06	1.70E-05	1.51E-05	4.20E-06	7.682E-05	
468847.72	3765002.81	4.56E-07	9.97E-07	6.89E-07	7.17E-07	1.67E-06	3.66E-06	4.02E-06	1.69E-05	1.50E-05	4.40E-06	8.048E-05	
469293.70	3764995.52	4.24E-07	1.83E-06	7.38E-07	7.38E-07	3.00E-06	3.70E-06	3.91E-06	1.72E-05	1.49E-05	4.13E-06	7.619E-05	
469519.72	3765007.48	4.69E-07	1.12E-06	7.00E-07	7.29E-07	1.88E-06	3.67E-06	4.01E-06	1.70E-05	1.49E-05	4.15E-06	7.625E-05	
469598.88	3765021.12	4.84E-07	9.97E-07	6.89E-07	7.17E-07	1.67E-06	3.66E-06	4.02E-06	1.69E-05	1.50E-05	4.40E-06	7.655E-05	
469363.03	3764992.74	4.36E-07	1.56E-06	7.25E-07	7.57E-07	2.58E-06	3.68E-06	3.93E-06	1.70E-05	1.49E-05	4.12E-06	7.560E-05	
468878.96	3765162.78	3.60E-07	4.02E-06	8.84E-07	9.40E-07	7.46E-06	4.17E-06	3.98E-06	1.57E-05	1.58E-05	4.35E-06	7.280E-05	
469341.11	3764989.10	4.30E-07	1.61E-06	7.25E-07	7.57E-07	2.66E-06	3.66E-06	4.02E-06	1.69E-05	1.50E-05	4.40E-06	7.517E-05	
469452.56	3764993.85	4.51E-07	1.26E-06	7.07E-07	7.37E-07	2.09E-06	3.65E-06	3.95E-06	1.69E-05	1.47E-05	4.10E-06	7.594E-05	
469274.95	3764993.91	4.17E-07	1.88E-06	7.36E-07	7.70E-07	3.08E-06	3.68E-06	3.88E-06	1.68E-05	1.46E-05	4.10E-06	7.554E-05	
469546.71	3765007.54	4.71E-07	1.26E-06	6.93E-07	7.18E-07	1.78E-06	3.65E-06	4.00E-06	1.68E-05	1.47E-05	4.12E-06	7.402E-05	
469654.05	3765034.75	4.97E-07	8.77E-07	6.98E-07	7.18E-07	1.48E-06	3.68E-06	3.98E-06	1.67E-05	1.45E-05	4.13E-06	7.357E-05	
468816.09	3765212.87	3.52E-07	3.05E-06	7.10E-07	1.00E-06	5.63E-06	4.29E-06	4.01E-06	1.52E-05	1.47E-05	4.38E-06	7.693E-05	
469313.88	3765021.17	4.85E-07	9.40E-07	6.98E-07	7.05E-07	1.58E-06	3.65E-06	4.04E-06	1.67E-05	1.49E-05	4.13E-06	7.347E-05	
469475.55	3764993.91	3.54E-07	1.39E-06	7.19E-07	7.19E-07	2.99E-06	3.71E-06	3.98E-06	1.68E-05	1.49E-05	4.13E-06	7.388E-05	
468846.67	3765182.11	3.54E-07	3.44E-06	9.01E-07	9.58E-07	6.36E-06	4.20E-06	3.97E-06	1.54E-05	1.48E-05	4.34E-06	7.799E-05	
469325.18	3764985.45	4.24E-07	1.66E-06	7.24E-07	7.56E-07	2.74E-06	3.65E-06	3.80E-06	1.67E-05	1.45E-05	4.07E-06	7.408E-05	
469414.38	3764991.48	4.56E-07	1.39E-06	7.16E-07	7.36E-07	2.74E-06	3.65E-06	3.90E-06	1.67E-05	1.45E-05	4.07E-06	7.402E-05	
469256.20	3764988.30	4.10E-07	1.93E-06	7.32E-07	7.66E-07	3.16E-06	3.66E-06	3.84E-06	1.66E-05	1.45E-05	4.06E-06	7.514E-05	
469575.70	3765007.60	4.72E-07	1.00E-06	6.82E-07	7.09E-07	1.68E-06	3.63E-06	3.99E-06	1.66E-05	1.47E-05	4.09E-06	7.311E-05	
468863.63	3765092.18	4.57E-07	1.65E-06	7.80E-07	8.14E-07	2.75E-06	3.64E-06	3.92E-06	1.65E-05	1.45E-05	4.02E-06	7.284E-05	
469506.54	3764993.96	4.57E-07	1.13E-06	6.92E-07	7.20E-07	1.88E-06	3.61E-06	3.94E-06	1.66E-05	1.45E-05	4.06E-06	7.323E-05	
469395.29	3764982.83	4.35E-07	1.42E-06	7.09E-07	7.40E-07	2.34E-06	3.62E-06	3.88E-06	1.66E-05	1.45E-05	4.05E-06	7.377E-05	
469306.25	3764993.81	4.51E-07	1.19E-06	7.15E-07	7.45E-07	2.61E-06	3.61E-06	3.85E-06	1.65E-05	1.45E-05	4.05E-06	7.414E-05	
469376.21	3764979.15	4.30E-07	1.46E-06	7.08E-07	7.40E-07	2.43E-06	3.61E-06	3.86E-06	1.65E-05	1.44E-05	4.03E-06	7.346E-05	
469640.87	3765021.23	4.85E-07	8.86E-07	6.93E-07	7.18E-07	1.49E-06	3.62E-06	4.02E-06	1.64E-05	1.48E-05	4.08E-06	7.230E-05	
469533.53	3764994.01	4.51E-07	1.64E-06	7.19E-07	7.49E-07	2.79E-06	3.60E-06	3.86E-06	1.64E-05	1.44E-05	4.03E-06	7.350E-05	
469600.69	3765007.65	4.73E-07	9.48E-07	6.72E-07	6.99E-07	1.59E-06	3.60E-06	3.97E-06	1.63E-05	1.44E-05	4.01E-06	7.212E-05	
469287.32	3764978.17	4.12E-07	1.75E-06	7.21E-07	7.54E-07	2.88E-06	3.61E-06	3.82E-06	1.64E-05	1.44E-05	4.01E-06	7.357E-05	
469357.12	3764981.48	4.39E-07	1.29E-06	7.19E-07	7.40E-07	2.40E-06	3.61E-06	3.81E-06	1.63E-05	1.44E-05	4.01E-06	7.310E-05	
468873.89	3765144.03	3.51E-07	3.70E-06	8.58E-07	9.12E-07	6.78E-06	4.05E-06	3.88E-06	1.52E-05	1.45E-05	4.22E-06	7.737E-05	
469466.37	3764980.39	4.43E-07	1.19E-06	6.91E-07	7.20E-07	1.98E-06	3.57E-06	3.87E-06	1.63E-05	1.44E-05	4.00E-06	7.223E-05	
469590.52	3764993.08	4.61E-07	1.05E-06	6.75E-07	7.03E-07	1.69E-06	3.56E-06	3.81E-06	1.63E-05	1.44E-05	4.00E-06	7.168E-05	
469338.03	3764971.81	4.18E-07	1.56E-06	7.08E-07	7.40E-07	2.58E-06	3.58E-06	3.81E-06	1.62E-05	1.43E-05	3.98E-06	7.266E-05	
468844.95	3765164.02	3.47E-07	3.29E-06	8.71E-07	9.26E-07	6.05E-06	4.09E-06	3.88E-06	1.50E-05	1.43E-05	4.22E-06	7.175E-05	
469268.39	3764974.52	4.05E-07	1.80E-06	7.18E-07	7.51E-07	2.93E-06	3.59E-06	3.78E-06	1.62E-05	1.43E-05	3.98E-06	7.291E-05	
469493.36	3764983.64	4.46E-07	1.13E-06	6.88E-07	7.18E-07	1.89E-06	3.57E-06	3.87E-06	1.62E-05	1.43E-05	3.98E-06	7.185E-05	
469427.91	3764972.98	4.33E-07	1.28E-06	6.93E-07	7.22E-07	2.13E-06	3.56E-06	3.78E-06	1.61E-05	1.43E-05	3.97E-06	7.186E-05	
469627.84	3765007.71	4.23E-07	8.52E-07	6.68E-07	6.87E-07	1.50E-06	3.57E-06	3.95E-06	1.60E-05	1.43E-05	4.02E-06	7.470E-05	
469318.94	3764993.13	4.12E-07	1.60E-06	7.13E-07	7.39E-07	2.39E-06	3.57E-06	3.84E-06	1.61E-05	1.43E-05	4.00E-06	7.218E-05	
469408.68	3764969.28	4.28E-07	1.34E-06	7.23E-07	7.23E-07	2.21E-06	3.56E-06	3.81E-06	1.61E-05	1.43E-05	3.96E-06	7.166E-05	
469587.51	3764994.13	4.62E-07	9.55E-07	6.92E-07	7.02E-07	1.60E-06	3.55E-06	3.80E-06	1.60E-05	1.44E-05	3.98E-06	7.078E-05	
469520.35	3764992.50	4.07E-07	1.60E-06	7.10E-07	7.31E-07	2.79E-06	3.56E-06	3.72E-06	1.60E-05	1.43E-05	3.96E-06	7.099E-05	
468858.56	3765144.43	3.46E-07	3.89E-06	8.53E-07	9.05E-07	6.20E-06	4.02E-06	3.84E-06	1.50E-05	1.41E-05	4.10E-06	7.537E-05	
469249.46	3764970.88	3.99E-07	1.85E-06	7.16E-07	7.49E-07	3.02E-06	3.58E-06	3.75E-06	1.59E-05	1.42E-05	3.99E-06	7.228E-05	
469389.45	3764996.58	4.31E-07	1.38E-06	7.14E-07	7.34E-07	2.40E-06	3.56E-06	3.79E-06	1.59E-05	1.42E-05	3.94E-06	7.141E-05	
469299.85	3764964.46	4.06E-07	1.64E-06	7.37E-07	7.37E-07	2.71E-06	3.55E-06	3.75E-06	1.59E-05	1.42E-05	3.93E-06	7.165E-05	
469370.22	3764961.88	4.17E-07	1.43E-06	6.94E-07	7.24E-07	2.37E-06	3.53E-06	3.77E-06	1.59E-05	1.42E-05	3.92E-06	7.109E-05	
469547.34	3764980.56	4.50E-07	1.09E-06	6.85E-07	7.05E-07	1.62E-06	3.52E-06	3.74E-06	1.58E-05	1.42E-05	3.90E-06	7.026E-05	
469614.50	3764994.19	4.62E-07	9.00E-07	6.81E-07	6.81E-07	1.52E-06	3.52E-06	3.89E-06	1.58E-05	1.41E-05	3.95E-06	6.981E-05	
469480.18	3764966.92	4.35E-07	1.13E-06	6.75E-07	7.03E-07	1.89E-06	3.50E-06	3.80E-06	1.58E-05	1.41E-05	3.91E-06	7.010E-05	
469280.77	3764993.07	4.50E-07	1.70E-06	7.04E-07	7.04E-07	2.40E-06	3.50E-06	3.78E-06	1.57E-05				

Unmitigated
Diesel Passenger Car Emissions

2022

Annual Average Offsite Total DPM Emission Rate - Segment 1 (grams/sec): 1.22E-08
Annual Average Offsite Total DPM Emission Rate - Segment 2 (grams/sec): 1.66E-08
Annual Average Offsite Total DPM Emission Rate - Segment 3 (grams/sec): 1.72E-08
Annual Average Offsite Total DPM Emission Rate - Segment 4 (grams/sec): 1.86E-08
Annual Average Offsite Total DPM Emission Rate - Segment 5 (grams/sec): 1.66E-08
Annual Average Offsite Total DPM Emission Rate - Segment 12 (grams/sec): 6.50E-07
Annual Average Offsite Total DPM Emission Rate - Segment 13 (grams/sec): 6.56E-07

X	Y	SLINE1	SLINE2	SLINE3	SLINE4	SLINE5	SLINE12	SLINE13
		Onsite Travel 1 Unit Emissions	Onsite Travel 2 Unit Emissions	Onsite Idle Unit Emissions	Offsite Unit Emissions	Offsite Unit Emissions	Offsite Unit Emissions	Offsite Unit Emissions
		Trucks Segment 1	Trucks Segment 2	Trucks Segment 3	Trucks Segment 4	Trucks Segment 5	Trucks Segment 6	Trucks Segment 7
469644.93	3766144.59	18.7351	3.4011	6.3014	5.7946	3.4689	14.2261	62.7370
469649.83	3766163.48	16.2825	3.1697	6.0480	5.7993	3.2205	14.6538	64.1442
469654.73	3766182.38	14.2975	2.9758	6.0450	5.7896	3.0261	14.9817	64.5877
469659.63	3766201.27	12.6739	2.8060	6.0353	5.7234	2.8505	15.2006	64.0393
469664.53	3766220.16	11.2923	2.6328	6.0449	5.7123	2.6849	15.3001	62.2215
469669.43	3766239.06	10.1416	2.4913	6.0198	5.6824	2.5390	15.2856	59.3560
469674.33	3766257.95	9.1505	2.3610	5.9936	5.6518	2.3943	15.1442	55.1840
469679.23	3766276.84	8.2837	2.2427	5.9825	5.6296	2.2637	15.1731	51.7502
469684.13	3766295.74	7.5641	2.1340	5.9309	5.5682	2.1549	14.5108	43.6502
469689.03	3766314.63	6.9119	2.0217	5.9146	5.5233	2.0556	14.0152	37.0668
469693.93	3766333.52	6.3625	1.9307	5.8515	5.4623	1.9564	13.4646	31.1807
469698.83	3766352.42	5.8667	1.8481	5.8085	5.4138	1.8719	12.8213	26.0003
469703.73	3766371.31	5.4292	1.7711	5.7529	5.3636	1.7894	12.1283	21.7705
469708.63	3766390.20	5.0066	1.6990	5.6909	5.3066	1.7066	11.4246	18.0920
469713.53	3766409.10	4.6035	1.6325	5.6353	5.2519	1.6325	10.7246	15.0474
469718.43	3766428.00	4.2619	1.5719	5.5841	5.2000	1.5719	10.0246	12.0003
469723.33	3766447.00	3.9753	1.5167	5.5363	5.1511	1.5167	9.3246	9.0003
469728.23	3766466.00	3.7353	1.4667	5.4919	5.1067	1.4667	8.6246	6.0003
469733.13	3766485.00	3.5353	1.4217	5.4500	5.0650	1.4217	7.9246	3.0003
469738.03	3766504.00	3.3753	1.3817	5.4119	5.0269	1.3817	7.2246	0.0003
469743.93	3766523.00	3.2553	1.3467	5.3775	4.9925	1.3467	6.5246	
469748.83	3766542.00	3.1753	1.3167	5.3475	4.9625	1.3167	5.8246	
469753.73	3766561.00	3.1253	1.2917	5.3225	4.9375	1.2917	5.1246	
469758.63	3766580.00	3.0925	1.2717	5.3025	4.9175	1.2717	4.4246	
469763.53	3766600.00	3.0725	1.2567	5.2875	4.9025	1.2567	3.7246	
469768.43	3766619.00	3.0625	1.2467	5.2825	4.8975	1.2467	3.0246	
469773.33	3766638.00	3.0625	1.2417	5.2875	4.9025	1.2417	2.3246	
469778.23	3766657.00	3.0725	1.2367	5.2925	4.9075	1.2367	1.6246	
469783.13	3766676.00	3.0925	1.2317	5.3025	4.9175	1.2317	0.9246	
469788.03	3766695.00	3.1253	1.2267	5.3225	4.9375	1.2267	0.2246	
469793.93	3766714.00	3.1753	1.2217	5.3475	4.9625	1.2217		
469798.83	3766733.00	3.2553	1.2167	5.3775	4.9925	1.2167		
469803.73	3766752.00	3.3753	1.2117	5.4119	5.0269	1.2117		
469808.63	3766771.00	3.5353	1.2067	5.4500	5.0650	1.2067		
469813.53	3766790.00	3.7353	1.2017	5.4919	5.1067	1.2017		
469818.43	3766809.00	4.0000	1.1967	5.5363	5.1511	1.1967		
469823.33	3766828.00	4.2619	1.1917	5.5841	5.2000	1.1917		
469828.23	3766847.00	4.6035	1.1867	5.6353	5.2519	1.1867		
469833.13	3766866.00	5.0066	1.1817	5.6909	5.3066	1.1817		
469838.03	3766885.00	5.4292	1.1767	5.7529	5.3636	1.1767		
469843.93	3766904.00	5.8667	1.1717	5.8085	5.4138	1.1717		
469848.83	3766923.00	6.3625	1.1667	5.8515	5.4623	1.1667		
469853.73	3766942.00	6.9119	1.1617	5.8925	5.5123	1.1617		
469858.63	3766961.00	7.5641	1.1567	5.9309	5.5623	1.1567		
469863.53	3766980.00	8.2837	1.1517	5.9825	5.6123	1.1517		
469868.43	3767000.00	9.1505	1.1467	6.0449	5.6623	1.1467		
469873.33	3767019.00	10.1416	1.1417	6.0198	5.7123	1.1417		
469878.23	3767038.00	11.2923	1.1367	6.0450	5.7623	1.1367		
469883.13	3767057.00	12.6739	1.1317	6.0353	5.8123	1.1317		
469888.03	3767076.00	14.2975	1.1267	6.0480	5.8623	1.1267		
469893.93	3767095.00	16.2825	1.1217	6.0450	5.9123	1.1217		
469898.83	3767114.00	18.7351	1.1167	6.0480	5.9623	1.1167		
469903.73	3767133.00	21.7502	1.1117	6.0450	6.0123	1.1117		
469908.63	3767152.00	25.1840	1.1067	6.0450	6.0623	1.1067		
469913.53	3767171.00	29.0393	1.1017	6.0450	6.1123	1.1017		
469918.43	3767190.00	33.3560	1.0967	6.0450	6.1623	1.0967		
469923.33	3767209.00	38.2215	1.0917	6.0450	6.2123	1.0917		
469928.23	3767228.00	43.6502	1.0867	6.0450	6.2623	1.0867		
469933.13	3767247.00	49.6583	1.0817	6.0450	6.3123	1.0817		
469938.03	3767266.00	56.3158	1.0767	6.0450	6.3623	1.0767		
469943.93	3767285.00	63.7297	1.0717	6.0450	6.4123	1.0717		
469948.83	3767304.00	71.8580	1.0667	6.0450	6.4623	1.0667		
469953.73	3767323.00	80.8000	1.0617	6.0450	6.5123	1.0617		
469958.63	3767342.00	90.5800	1.0567	6.0450	6.5623	1.0567		
469963.53	3767361.00	101.2200	1.0517	6.0450	6.6123	1.0517		
469968.43	3767380.00	112.7200	1.0467	6.0450	6.6623	1.0467		
469973.33	3767399.00	125.0000	1.0417	6.0450	6.7123	1.0417		
469978.23	3767418.00	138.0000	1.0367	6.0450	6.7623	1.0367		
469983.13	3767437.00	151.6600	1.0317	6.0450	6.8123	1.0317		
469988.03	3767456.00	166.0000	1.0267	6.0450	6.8623	1.0267		
469993.93	3767475.00	181.0000	1.0217	6.0450	6.9123	1.0217		
469998.83	3767494.00	196.6600	1.0167	6.0450	6.9623	1.0167		
470003.73	3767513.00	213.0000	1.0117	6.0450	7.0123	1.0117		
470008.63	3767532.00	230.0000	1.0067	6.0450	7.0623	1.0067		
470013.53	3767551.00	247.6600	1.0017	6.0450	7.1123	1.0017		
470018.43	3767570.00	266.0000	0.9967	6.0450	7.1623	0.9967		
470023.33	3767589.00	285.0000	0.9917	6.0450	7.2123	0.9917		
470028.23	3767608.00	305.0000	0.9867	6.0450	7.2623	0.9867		
470033.13	3767627.00	326.0000	0.9817	6.0450	7.3123	0.9817		
470038.03	3767646.00	348.0000	0.9767	6.0450	7.3623	0.9767		
470043.93	3767665.00	371.0000	0.9717	6.0450	7.4123	0.9717		
470048.83	3767684.00	395.0000	0.9667	6.0450	7.4623	0.9667		
470053.73	3767703.00	420.0000	0.9617	6.0450	7.5123	0.9617		
470058.63	3767722.00	446.0000	0.9567	6.0450	7.5623	0.9567		
470063.53	3767741.00	473.0000	0.9517	6.0450	7.6123	0.9517		
470068.43	3767760.00	501.0000	0.9467	6.0450	7.6623	0.9467		
470073.33	3767779.00	530.0000	0.9417	6.0450	7.7123	0.9417		
470078.23	3767798.00	560.0000	0.9367	6.0450	7.7623	0.9367		
470083.13	3767817.00	591.0000	0.9317	6.0450	7.8123	0.9317		
470088.03	3767836.00	623.0000	0.9267	6.0450	7.8623	0.9267		
470093.93	3767855.00	656.0000	0.9217	6.0450	7.9123	0.9217		
470098.83	3767874.00	690.0000	0.9167	6.0450	7.9623	0.9167		
470103.73	3767893.00	725.0000	0.9117	6.0450	8.0123	0.9117		
470108.63	3767912.00	761.0000	0.9067	6.0450	8.0623	0.9067		
470113.53	3767931.00	800.0000	0.9017	6.0450	8.1123	0.9017		
470118.43	3767950.00	840.0000	0.8967	6.0450	8.1623	0.8967		
470123.33	3767969.00	882.0000	0.8917	6.0450	8.2123	0.8917		
470128.23	3767988.00	925.0000	0.8867	6.0450	8.2623	0.8867		
470133.13	3768007.00	970.0000	0.8817	6.0450	8.3123	0.8817		
470138.03	3768026.00	1017.0000	0.8767	6.0450	8.3623	0.8767		
470143.93	3768045.00	1065.0000	0.8717	6.0450	8.4123	0.8717		
470148.83	3768064.00	1115.0000	0.8667	6.0450	8.4623	0.8667		
470153.73	3768083.00	1167.0000	0.8617	6.0450	8.5123	0.8617		
470158.63	3768102.00	1220.0000	0.8567	6.0450	8.5623	0.8567		
470163.53	3768121.00	1275.0000	0.8517	6.0450	8.6123	0.8517		
470168.43	3768140.00	1332.0000	0.8467	6.0450	8.6623	0.8467		
470173.33	3768159.00	1390.0000	0.8417	6.0450	8.7123	0.8417		
470178.23	3768178.00	1450.0000	0.8367	6.0450	8.7623	0.8367		
470183.13	3768197.00	1512.0000	0.8317	6.0450	8.8123	0.8317		
470188.03	3768216.00	1575.0000	0.8267	6.0450	8.8623	0.8267		
470193.93	3768235.00	1640.0000	0.8217	6.0450	8.9123	0.8217		
470198.83	3768254.00	1707.0000	0.8167	6.0450	8.9623	0.8167		
470203.73	3768273.00	1775.0000	0.8117	6.0450	9.0123	0.8117		
470208.63	3768292.00	1845.0000	0.8067	6.0450	9.0623	0.8067		
470213.53	3768311.00	1917.0000	0.8017	6.0450	9.1123	0.8017		
470218.43	3768330.00	1990.0000	0.7967	6.0450	9.1623	0.7967		
470223.33	3768349.00	2065.0000	0.7917	6.0450	9.2123	0.7917		</

469224.74	3766143.76	4.0137	4.7927	34.8894	43.9625	4.9617	21.2554	8.0661
469216.00	3766090.58	4.1521	6.5364	35.4100	45.8246	6.8006	17.5390	7.5702
469209.64	3765944.40	4.3497	28.2168	44.5116	90.0060	31.3658	9.4622	6.0443
469227.74	3766161.96	3.9534	4.3074	34.7548	43.1038	4.4727	22.2535	8.1833
469212.83	3766072.73	4.1770	7.3574	35.4746	46.4776	7.7172	16.1938	7.3546
469749.94	3766119.00	7.0078	2.1551	5.5128	5.2212	2.2180	11.5170	22.7394
469758.80	3766276.37	8.6609	2.4323	5.2073	4.9854	2.4977	10.7501	23.6504
469230.73	3766180.17	3.8038	3.9248	34.5915	42.4352	4.0655	23.0183	8.2630
469206.66	3766054.88	4.1893	8.3859	35.5284	47.4306	8.8212	14.9878	7.1230
469762.77	3766214.85	12.3982	2.8688	4.8439	4.7180	2.9336	9.4286	22.8526
469206.57	3765924.94	4.2918	35.4644	37.2728	91.2532	42.7294	8.6307	5.7608
469741.07	3766361.63	5.7917	1.9008	5.7906	5.4367	1.9588	12.2416	20.2389
469267.74	3766286.27	3.5444	2.6526	47.6031	62.8283	2.7283	26.9321	8.8432
469768.61	3766314.16	7.1587	2.1891	5.2278	4.9736	2.2512	11.2794	23.8548
469233.73	3766198.37	3.7977	3.7359	34.7927	42.4531	3.8480	23.5906	8.3069
469206.49	3766037.03	4.1930	9.6226	35.4521	48.4013	10.1589	13.6653	6.8839
469613.17	3766457.41	3.9110	1.3977	8.7082	7.9513	1.4362	13.2699	12.9218
469203.32	3766019.18	4.1914	11.0821	35.0988	49.0582	11.7531	12.5471	6.6438
469767.67	3766233.74	11.0101	2.7226	4.8755	4.7268	2.7870	9.6347	22.4093
469761.83	3766134.43	22.5320	3.4442	4.3516	4.3421	3.4937	7.6114	19.4999
469236.73	3766216.58	3.7067	3.5250	35.0102	42.4087	3.6425	23.7919	8.3045
469771.64	3766172.22	16.6524	3.1674	4.4709	4.4181	3.2251	8.2896	20.6497
469763.70	3766295.26	7.8567	2.3060	5.2179	4.9781	2.3697	10.8850	22.1749
469759.74	3766356.79	5.8977	1.9386	5.5049	1.9978	1.9978	11.9615	21.2994
469765.73	3766153.32	19.3159	3.9041	4.4131	4.3827	3.3580	7.9545	19.8311
469200.15	3766001.33	4.1772	12.9148	34.5571	49.6077	13.7920	11.5150	6.3983
469201.07	3765889.87	4.1540	47.9470	23.6845	70.3153	79.1862	7.3624	5.2680
469686.41	3766431.02	4.3981	1.5278	6.9028	6.3788	1.5743	12.0589	14.4193
469239.72	3766234.79	3.6217	3.2795	35.1192	42.2216	3.3850	23.8194	8.2815
469772.57	3766252.63	9.8479	2.5846	4.9016	4.7317	2.6483	9.8302	21.8060
469776.54	3766191.11	14.4950	3.0188	4.5217	4.4452	3.0781	8.5602	20.6153
469773.51	3766333.05	6.5427	2.0802	5.2342	4.9711	2.1412	11.2573	22.0473
469782.37	3766290.42	8.0295	2.3343	4.9437	4.7377	2.3961	10.3149	22.8622
469196.98	3765983.48	4.1538	15.1403	33.4911	49.8836	16.2452	10.5780	6.1530
469632.43	3766457.52	3.9278	1.3948	8.1610	7.4756	1.4348	12.6220	12.7264
469781.44	3766210.00	12.7655	2.8761	4.5662	4.4670	2.9365	8.7563	20.6799
469242.72	3766252.99	3.5459	2.9593	35.0481	41.8473	3.0527	23.6714	8.2403
469777.47	3766271.53	8.8714	2.4557	4.9244	4.7350	2.5185	10.0322	21.3523
469273.30	3766319.19	3.3618	2.3454	44.0591	60.5528	2.4100	24.7099	8.4869
469787.27	3766309.31	7.2999	2.2213	4.9601	4.7421	2.2823	10.3918	21.7171
469723.85	3766402.05	4.9000	1.6285	5.4829	5.0239	1.6567	10.5267	16.3218
469742.52	3766497.21	5.0188	1.7149	5.8577	5.4767	1.7677	12.2204	7.6677
469535.99	3766476.24	3.4688	1.3501	11.7992	10.6129	1.3819	14.4848	11.0135
469195.58	3765854.80	3.9927	54.8510	15.4899	30.1150	103.7388	6.3483	4.8126
469786.34	3766228.90	11.3045	2.7349	4.6028	4.4818	2.7954	8.9537	20.4089
469190.65	3765947.78	4.0736	21.0755	49.8329	23.8826	8.9598	5.6667	7.2284
469202.71	3766128.69	3.8159	5.0351	27.5304	32.8342	5.2551	17.2470	6.9401
469197.01	3766093.95	3.8879	6.1419	27.4555	33.3990	6.4096	15.3718	11.2113
469555.26	3766476.36	3.5286	1.3436	10.8518	9.8001	1.3761	9.1637	21.1230
469791.24	3766247.79	10.0871	2.6024	4.6348	4.4936	2.6627	18.1197	7.3486
469205.71	3766146.89	3.7674	4.5832	27.5638	32.5671	4.7741	9.3423	21.2216
469796.14	3766266.68	9.0664	2.4785	4.6636	4.5049	2.5386	11.1763	8.1389
469778.41	3766351.94	6.0081	1.9769	5.2354	4.9658	2.0368	23.1490	6.7594
469245.72	3766271.20	3.4604	2.6992	32.0078	38.7420	2.7788	14.3451	17.5273
469193.84	3766076.10	3.9092	6.8605	27.3348	33.6765	7.1805	10.0322	18.9333
469785.40	3766148.48	19.8939	3.2833	4.1454	4.1336	3.3312	7.3351	7.4392
469795.20	3766186.27	14.8999	3.0157	4.2608	4.2067	3.0696	16.9398	13.3400
469208.71	3766165.10	3.7158	4.1223	26.3605	32.3342	4.2889	18.8325	7.5610
469190.67	3766058.25	3.9230	7.6845	27.1299	33.9510	8.0716	8.2117	5.4140
469187.51	3765927.92	4.0225	24.9139	25.9014	48.5309	29.7794	7.9530	19.2239
469800.10	3766205.16	13.0918	2.8827	4.3099	4.2362	2.9383	7.5206	17.9786
469790.30	3766167.37	17.1547	3.1485	4.2054	4.1721	3.1998	13.2347	7.5043
469574.52	3766476.47	3.5846	1.3324	10.0216	9.0904	1.3660	19.4138	12.4542
469211.70	3766183.30	3.6546	3.7741	25.7659	31.6103	3.9059	12.3753	20.3936
469651.70	3766457.63	3.9631	1.4005	7.6791	7.0545	1.4415	10.4238	6.3671
469187.50	3766040.40	3.9286	8.6504	26.8265	34.2120	9.1270	19.8425	20.5595
469792.17	3766328.21	6.6668	2.1144	4.9726	4.7454	2.1749	11.4632	7.5460
469801.04	3766285.58	8.1892	2.3589	4.6862	4.5118	2.4183	6.1596	17.1657
469214.70	3766201.51	3.5859	3.5113	25.9560	31.6973	3.6469	22.4688	8.0106
469184.33	3766022.55	3.9240	9.8217	26.4224	34.4625	10.4248	11.6871	16.2744
469761.19	3766392.37	5.0931	1.7511	5.5826	5.2488	1.8064	11.6871	17.1657
469248.71	3766289.40	3.3694	2.5024	31.7292	38.0644	2.5894	22.4688	8.0106
469190.09	3765819.74	3.8181	60.3348	11.0206	17.0756	123.6600	5.5312	4.3981
469789.37	3766086.96	35.1548	3.6536	3.6812	3.7419	3.6791	6.0624	14.2172
469593.79	3766476.58	6.3944	1.3244	9.3226	8.4839	1.3659	12.5762	11.3291
469217.70	3766219.71	3.5114	3.3069	27.4355	31.7882	3.4236	20.1000	7.5610
469181.16	3766004.70	3.9106	11.2072	25.8315	34.6042	11.9944	10.6122	5.9485
469182.02	3765892.85	3.9041	31.4514	19.1336	38.9843	43.3913	7.0773	4.9823
469794.27	3766105.85	28.9174	3.5285	3.7581	3.8009	3.5604	6.1347	14.5147
469805.94	3766304.47	7.4360	2.2479	4.7066	4.5198	2.3070	9.5668	19.7397
469804.07	3766143.64	20.4233	3.2657	3.8990	3.9032	3.3074	6.5375	15.6443
469178.00	3765986.85	3.8892	12.8052	24.9601	34.5634	13.8700	9.8261	5.7366
469799.17	3766124.74	24.1237	3.3976	3.8311	3.8548	3.4349	6.2907	15.0244
469808.97	3766162.53	17.5712	3.1334	3.9611	3.9458	3.1787	6.7884	16.1815
469797.07	3766347.10	6.1064	2.0124	4.9795	4.7449	2.0720	10.4043	18.9363
469220.69	3766237.92	3.4365	3.0752	26.6702	31.7500	3.1799	20.1278	7.5405
469278.79	3766351.72	3.1817	2.1023	43.2362	55.7565	2.1551	22.0127	8.0450
469670.96	3766457.75	3.9915	1.4081	7.2465	6.6753	1.4500	11.7088	12.0793
469813.87	3766181.42	15.2366	3.0087	4.0184	3.9857	3.0573	7.0352	16.6274
469174.83	3765969.00	3.8586	14.6628	23.7498	34.3038	16.1646	9.1034	5.5247
469613.05	3766476.69	3.6790	1.3283	8.7047	7.9467	1.3639	11.9073	11.2574
469779.86	3766387.52	5.1640	1.7884	5.3185	5.0260	1.8454	11.0894	16.8605
469818.77	3766200.32	13.3362	2.8819	4.0701	4.0192	2.9330	7.2785	16.9582
469223.69	3766256.12	3.3630	2.7454	25.1885	28.9942	2.8689	19.9130	7.4807
469810.84	3766323.36	6.7828	2.1434	4.7239	4.5272	2.2022	9.6312	18.7753
469176.53	3765857.79	3.7634	36.0811	13.8636	24.3217	53.9030	6.1503	4.5781
469171.66	3765951.15	3.8212	16.6538	22.1169	33.5927	18.8342	8.4429	5.3156
469788.43	3766006.54	114.3545	4.0965	3.0805	3.2056	4.0803	4.5377	9.3607
469793.33	3766025.43	79.2672	3.9667	3.1865	3.2975	3.9602	4.7509	10.0317
469783.53	3765987.65	184.6506	4.2256	2.9637	3.1014	4.1986	4.3167	8.6912
469701.62	3766442.87	4.2611	1.4946	6.6051	6.1086	1.5379	10.2771	12.8816
469798.23	3766044.33	58.6997	3.8473	3.2805	3.3783	3.8500	4.9433	10.6649
469254.28	3766322.40	3.2033	2.2104	31.5072	37.3171	2.2950	20.8444	7.7150
469803.14	3766063.22	45.3880	3.7311	3.3675	3.4520	3.7422	5.1327	11.2907
469823.67	3766219.21	11.7738	2.7584	4.1165	4.0481	2.8114	7.5097	17.1638
469178.02	3766097.32	3.6498	5.7018	22.5530	26.2396	5.9964	13.5598	6.3831
469183.69	3766131.82	3.5863	4.7896	22.7483	26.0238	5.0098	14.9887	6.6236
469808.04	3766082.11	36.1999	3.6130	3.4502	3.5203	3.6316	5.3312	11.9249
469174.85	3766079.47	3.6686	6.3067	22.3156	26.3016	6.		

469192.67	3766186.43	3.4462	3.4829	20.8810	23.7989	3.6554	16.6206	6.8488
469798.53	3766382.68	5.2468	1.8247	5.0669	4.8087	1.8821	10.4317	16.3550
469827.64	3766157.69	17.8228	3.1182	3.7348	3.7373	3.1583	6.2246	14.2578
469165.34	3766025.92	3.6819	8.6467	21.3556	26.3869	9.2748	10.4617	5.7192
469171.04	3765822.72	3.6084	39.6022	10.4003	15.6944	61.3833	5.3891	4.2051
469833.48	3766257.00	9.3803	2.5213	4.1940	4.0929	2.5763	7.9177	17.1443
469832.54	3766176.58	15.4461	3.0012	3.7935	3.7802	3.0451	6.4537	14.7007
469535.88	3766495.53	3.2795	1.3035	11.8200	10.6252	1.3328	12.6042	9.7646
469195.67	3766204.64	3.3890	3.0719	20.5628	23.1432	3.1893	16.9145	6.8765
469754.29	3766425.74	4.4997	1.5881	5.7345	5.3569	1.6368	11.1155	13.7595
469162.18	3766008.07	3.6704	9.6904	20.7789	26.2843	10.4844	9.7630	5.5382
469229.68	3766292.53	3.2020	2.3019	24.8789	28.2070	2.3652	19.0783	7.2964
469162.97	3765895.84	3.6734	23.1461	15.8720	26.8903	29.4541	6.7711	4.7111
469555.14	3766495.64	3.3341	1.2853	10.8333	9.7859	1.3154	12.1607	9.9029
469651.58	3766476.92	3.7215	1.3272	7.6802	7.0552	1.3653	11.4084	10.7241
469837.44	3766195.48	13.5109	2.8756	3.8466	3.8147	2.9219	6.6829	15.0438
469159.01	3765990.22	3.6516	10.8597	20.0721	26.0583	11.8715	9.1064	5.3547
469198.67	3766222.84	3.3259	2.8590	20.5352	22.9868	2.9639	17.0942	6.8849
469281.26	3766380.30	3.0120	1.9413	41.7162	53.2696	1.9883	19.1858	7.5403
469735.62	3766430.59	4.4502	1.5325	5.8689	5.3326	1.5553	9.3961	13.0122
469816.00	3766039.49	60.5363	3.7890	3.0694	3.1733	3.7861	4.5297	9.3952
469812.00	3766020.59	83.6449	3.8966	2.9782	3.0926	3.8847	4.3564	8.8577
469842.34	3766214.37	11.9246	2.7607	3.8957	3.8483	2.8095	6.9028	15.3045
469820.64	3766361.15	5.7091	1.9445	4.7400	4.5261	2.0016	9.5855	16.4109
469821.80	3766058.38	46.2370	3.6879	3.1527	3.2466	3.6935	4.6931	9.9142
469772.96	3766420.90	4.5657	1.6209	5.4749	5.1412	1.6722	10.7568	13.8625
469807.10	3766001.70	125.6051	4.0128	2.8748	3.0006	3.9913	4.1626	8.2850
469574.41	3766495.75	3.3842	1.2708	9.9971	9.0715	1.3018	11.6845	9.9719
469167.12	3765794.54	3.4839	42.5901	8.5222	11.8653	67.3671	4.8795	3.9340
469826.70	3766077.27	36.6098	3.5690	3.2380	3.3174	3.5819	4.8922	10.5038
469155.84	3765972.37	3.6247	12.1747	19.0176	25.6421	13.5236	8.4959	5.1717
469802.20	3765982.80	216.8504	4.1219	2.7659	2.9005	4.0900	3.9741	7.7398
469259.77	3766354.93	3.0400	1.9407	31.3859	36.8962	2.0015	18.8516	7.3513
469201.66	3766241.05	3.2589	2.6808	20.5712	22.9279	2.7755	17.1357	6.8697
469831.60	3766096.17	29.7859	3.4451	3.3186	3.3817	3.4644	5.1025	11.0958
469847.24	3766233.26	10.6036	2.6449	3.9395	3.8759	2.6953	7.1084	15.4417
469836.51	3766115.06	24.7602	3.3256	3.3923	3.4395	3.3507	5.3097	11.6498
469843.28	3766294.79	7.6677	2.2996	4.2521	4.1222	2.3550	8.1945	16.5008
469816.70	3766380.22	5.2773	1.8462	4.8411	4.6092	1.9027	9.7760	15.5683
469157.47	3765860.77	3.5501	26.4668	12.3440	19.6508	35.4228	5.9316	4.3520
469165.88	3765774.82	3.4066	46.3302	7.5174	10.0824	75.2912	4.5735	3.7675
469841.41	3766133.95	20.9341	3.4606	3.2102	3.4925	3.2404	5.5170	12.1657
469593.67	3766495.87	3.4288	1.2634	9.2921	8.4608	1.2955	11.1911	9.9757
469686.18	3766469.59	3.8573	1.3737	6.9389	6.4002	1.4140	10.4376	10.9300
469204.66	3766259.26	3.1895	2.5111	20.5509	22.8205	2.5966	17.0315	6.8295
469846.31	3766152.85	17.9407	3.0960	3.5244	3.5409	3.1307	5.7282	12.6415
469791.63	3766416.06	4.6210	1.6554	5.2249	4.9279	1.7080	10.2913	13.8337
469852.14	3766252.16	9.4927	2.5307	3.9781	3.8986	2.5821	7.2919	15.4442
469159.03	3766100.69	3.4344	5.2085	17.9225	21.6181	5.5240	12.0433	5.8865
469851.21	3766171.74	15.6182	2.9952	3.5835	3.5881	3.0345	5.9346	13.0726
469164.66	3766134.95	3.3798	4.4327	18.0431	21.3266	4.6661	13.1446	6.0882
469149.41	3765933.89	3.5519	15.1357	16.5543	23.8001	17.6099	7.3375	4.7866
469155.86	3766082.84	3.4516	5.6777	17.6706	21.6146	6.0360	11.4143	5.7569
469235.26	3766325.61	3.0528	2.0511	24.6925	27.8587	2.1115	17.8601	7.0503
469848.18	3766313.68	6.9798	2.1977	4.2757	4.1344	2.2532	8.2946	15.9904
469716.84	3766454.71	4.0639	1.4627	5.6254	5.1644	1.4847	9.3794	11.6406
469164.64	3765755.11	3.3296	50.6999	6.7091	8.7119	84.2760	4.2963	3.6091
469167.65	3766153.15	3.3427	4.0599	17.9293	20.9332	4.2662	13.6539	6.1720
469152.69	3766064.99	3.4618	6.2342	17.5114	21.6752	6.6563	10.7847	5.6183
469812.76	3766399.30	4.8986	1.7488	4.9336	4.6815	1.8035	9.8208	14.4466
469856.11	3766190.63	13.6145	2.8705	3.6386	3.6245	2.9123	6.1543	13.4263
469170.65	3766171.36	3.3014	3.5255	17.7421	19.8336	3.6759	14.0816	6.2361
469612.94	3766495.98	3.4682	1.2603	8.6832	7.9298	1.2935	10.7100	9.9189
469149.52	3766047.14	3.4660	7.6568	17.1293	21.2813	7.2993	10.1611	5.4708
469207.66	3766277.46	3.1184	2.3505	20.4707	22.6572	2.4278	16.7878	6.7648
469151.98	3765825.70	3.4126	29.1189	9.6922	14.0833	39.8688	5.2298	4.0169
469146.36	3766029.29	3.4628	7.4557	16.8425	21.2949	8.1094	9.5597	5.3189
469285.01	3766402.45	2.8883	1.9199	46.4841	60.5229	1.9601	17.3134	7.1938
469861.01	3766209.53	12.0611	2.7630	3.6896	3.6614	2.8077	6.3636	13.7211
469173.64	3766189.57	3.2554	3.1933	17.5146	19.4624	3.3237	14.4121	6.2793
469163.41	3765735.39	3.2486	56.3288	6.0237	7.6066	95.5135	4.0412	3.4562
469835.57	3766034.64	61.6324	3.7379	2.8667	2.9767	3.7299	4.1367	8.2731
469840.47	3766053.54	46.4598	3.6367	2.9530	3.0532	3.6370	4.3042	8.7621
469830.67	3766015.75	87.6080	3.8295	2.7810	2.8994	3.8126	3.9897	7.8338
469845.37	3766072.43	36.6389	3.5289	3.0373	3.1253	3.5365	4.4867	9.2804
469143.19	3766011.44	3.4536	8.2629	16.4766	21.3469	9.0707	8.9828	15.6330
469143.91	3765998.82	3.4641	17.9148	13.7061	20.4326	21.8289	6.4531	4.4545
469825.77	3765996.86	139.1000	3.9273	2.6840	2.8093	3.9011	3.8241	7.3640
469853.08	3766332.57	6.3843	2.0952	4.2917	4.1377	2.1498	8.3240	15.2785
469850.27	3766091.32	29.7890	3.4088	3.1204	3.1930	3.4229	4.6921	9.8316
469865.91	3766228.42	10.7255	2.6525	3.7357	3.6925	2.6993	6.5634	13.9149
469861.94	3766289.94	7.7593	2.3114	4.0399	3.9302	2.3633	7.5666	15.0174
469855.17	3766110.22	24.6813	3.2927	3.1956	3.2530	3.3125	4.8920	10.3476
469140.02	3765993.59	3.4357	9.2292	16.1279	21.1210	10.1536	8.4352	5.0048
469632.21	3766496.09	3.4758	1.2575	8.1440	7.4613	1.2919	10.3767	9.7121
469860.07	3766129.11	20.8889	3.1829	3.2642	3.3075	3.2079	5.0864	10.8246
469176.64	3766207.77	3.2044	2.9353	17.3712	19.1887	3.0500	14.6495	6.3042
469210.65	3766295.67	3.0457	2.1984	20.3188	22.4194	2.2683	16.4136	6.6764
469262.06	3766382.13	2.8930	1.7870	30.3067	35.3211	1.8286	16.7866	6.9435
469162.17	3765715.68	3.1622	63.7024	5.4198	6.7071	108.4555	3.8045	3.3074
469831.55	3766393.86	4.9787	1.7842	4.7058	4.4805	1.8382	9.2268	14.0096
469870.81	3766247.31	5.9996	2.5342	3.7753	3.7144	2.5830	6.7355	13.9535
469864.97	3766148.00	17.9221	3.0683	3.3290	3.3565	3.0977	5.2890	11.2745
469136.85	3765975.74	3.4121	10.2790	15.8103	20.6133	11.4052	7.9195	4.8462
469147.88	3765795.75	3.2945	31.4131	8.0381	10.9603	43.3862	4.7267	3.7568
469866.85	3766308.84	7.0606	2.2152	4.0681	3.9481	2.2678	7.6862	14.6938
469869.88	3766166.90	15.6288	2.9733	3.3877	3.4042	3.0073	5.4788	11.6786
469179.64	3766225.98	3.1489	2.7306	17.3156	19.0342	2.8329	14.7901	6.3107
469857.98	3766351.47	5.8622	1.9996	4.3052	4.1411	2.0536	8.3288	14.5078
469138.42	3765863.76	3.3571	20.3889	11.0665	16.2261	25.6628	5.7013	4.1379
469535.77	3766514.81	3.1057	1.2612	11.8360	10.6308	1.2882	11.0825	8.7320
469516.50	3766514.70	3.0535	1.3037	13.0061	11.6527	1.3362	11.3764	8.5738
469874.78	3766185.79	13.6950	2.8617	3.4440	3.4451	2.8990	5.6822	12.0377
469146.64	3765776.03	3.2293	33.5713	7.2044	9.5102	46.7232	4.4455	3.6086
469240.75	3766358.14	2.9058	1.8538	24.4577	27.4784	1.9056	16.3418	6.7452
469854.15	3766370.01	5.4327	1.9079	4.4011	4.2191	1.9618	8.5363	14.1017
469876.68	3766204.69	12.1009	2.7536	3.4958	3.4821	2.7937	5.8796	12.3320
469182.63	3766244.18	3.0901	2.5516	17.2702	18.9055	2.6434	14.8222	6.2968
469555.03	3766514.93	3.1555	1.2345	10.8149	9.7688	1.2623	10.7435	8.8315
469766.06	3766454.28	4.0630	1.4738	5.6131	5.2442	1.5193	10.0925	11.1710
469827.								

469145.40	3765756.32	3.1616	35.9872	6.4970	8.3405	50.3079	4.1872	3.4655
469868.94	3766086.48	29.2867	3.3696	2.9346	3.0147	3.3786	4.3220	8.7521
469574.30	3766515.04	3.2007	1.2139	9.9610	9.0424	1.2427	10.3803	8.8778
469804.88	3766437.44	4.2667	1.5677	5.0979	4.8046	1.6170	9.5247	11.8953
469140.04	3766104.06	3.2391	4.4392	14.9023	16.8682	4.6802	10.7633	5.4457
469185.63	3766262.39	3.0284	2.3699	17.2512	18.8203	2.4799	14.7498	6.2635
469148.62	3766156.29	3.1585	3.5624	15.1294	16.7855	3.7261	12.0307	5.6885
469136.87	3766086.21	3.2539	2.9649	14.7510	16.8375	5.0828	10.2617	5.3351
469701.40	3766481.44	3.7482	1.3506	6.6412	6.1278	1.3863	8.7732	10.0294
469132.93	3765828.69	3.2372	22.4184	9.0186	12.5462	28.6754	5.0621	3.8387
469133.70	3766068.36	3.2627	5.2276	14.5908	16.8177	5.5545	9.7553	5.2166
469216.25	3766328.82	2.9114	1.9763	20.1746	22.1682	2.0356	15.4896	6.4709
469889.48	3766242.47	9.6482	2.5360	3.5851	3.5405	2.5796	6.2365	12.6462
469885.51	3766304.00	7.1245	2.2306	3.8737	3.7734	2.2805	7.1420	13.5307
469876.65	3766346.63	5.9235	2.0250	4.1075	3.9663	2.0773	7.7901	13.6237
469151.62	3766174.49	3.1214	3.2887	15.1077	16.6591	3.4324	12.3709	5.7441
469593.56	3766515.15	3.2407	1.2035	9.2549	8.4306	1.2333	10.0052	8.8767
469266.05	3766406.00	2.7767	1.8005	31.2428	36.6241	1.8442	15.2457	6.6342
469144.16	3765736.60	3.0880	38.9996	5.8611	7.3744	54.6119	3.9468	3.3254
469124.86	3765901.81	3.2708	14.3457	12.1914	16.7189	17.0865	6.1352	4.2131
469295.79	3766430.03	2.7273	1.9185	68.2111	101.5068	1.9566	14.9147	6.7479
469670.74	3766496.32	3.5014	1.2674	7.2488	6.6758	1.3038	10.5786	8.6743
469872.85	3766364.98	5.4962	1.9356	4.2006	4.0417	1.9880	7.9971	13.3559
469188.63	3766280.59	2.9649	17.1742	2.4889	18.6797	2.3228	14.5678	6.2093
469823.79	3766431.41	4.3373	1.0559	4.8704	4.6074	1.6559	9.1252	11.9253
469732.06	3766466.56	3.8512	1.4435	5.3276	4.9336	1.4607	8.4855	10.3269
469130.54	3766050.51	3.2671	5.5792	14.2610	16.5943	5.9562	9.2414	5.0878
469127.37	3766032.66	3.2638	6.1193	14.0489	16.5538	6.5718	8.7501	4.9577
469154.61	3766192.70	3.0806	3.0024	14.9443	16.3775	3.1270	12.6282	5.7801
469890.41	3766322.89	6.5117	2.1377	3.8992	3.7885	2.1879	7.2312	13.1975
469124.20	3766014.81	3.2544	6.7382	13.7913	16.4838	7.2884	8.2746	4.8240
469899.28	3766280.26	7.8773	2.3513	3.6623	3.5969	2.3987	6.5643	12.7254
469869.06	3766383.34	5.1138	1.8471	4.2890	4.1123	1.8990	8.1472	12.9108
469612.83	3766515.26	3.2517	1.1987	8.6497	7.9039	1.2295	9.6339	8.8295
469121.03	3765996.96	3.2397	7.3686	13.4301	16.2933	8.0368	7.8151	4.6866
469142.92	3765716.89	3.0114	42.5422	5.3040	6.5420	59.5595	3.7243	3.1900
469128.63	3765796.96	3.1262	24.3155	7.5835	10.0555	31.2365	4.5720	3.5907
469117.86	3765979.11	3.2187	8.1290	13.0321	16.0793	8.9541	7.3797	4.5490
469157.61	3766210.90	3.0353	2.7719	14.8356	16.1745	2.8817	12.8159	5.8011
469242.86	3766383.96	2.7783	7.1780	23.6500	26.4262	1.7643	14.8124	6.4147
469118.37	3765866.74	3.1778	16.1711	10.3141	13.8936	19.6099	5.4621	3.9314
469191.62	3766298.80	2.8999	2.1054	17.0188	18.4608	2.1732	14.2810	6.1347
469842.65	3766425.64	4.4036	1.6420	4.6542	4.4182	1.6920	8.6824	11.8088
469904.18	3766299.15	7.1704	2.2508	3.6928	3.6135	2.2985	6.6731	12.5418
469895.32	3766341.78	5.9751	2.0483	3.9206	3.8008	2.0988	7.2976	12.7806
469865.26	3766401.70	4.7705	1.7606	4.3728	4.1790	1.8117	8.2395	12.3205
469127.39	3765777.24	3.0670	25.8927	6.8788	8.8930	33.3386	4.3116	3.4562
469891.55	3766359.99	5.5544	1.9624	4.0121	3.8755	2.0134	7.5171	12.6425
469160.61	3766229.11	2.9863	2.5751	14.7463	16.0043	2.6729	12.9245	5.8056
469632.09	3766515.38	3.2686	1.1968	8.1191	7.4412	1.2288	9.7100	8.3499
469141.68	3765697.17	2.9443	45.8837	4.8888	5.9153	64.4149	3.5264	3.0659
469111.30	3765939.86	3.1606	9.6798	11.8776	15.0700	10.9322	6.5049	4.2483
469221.74	3766361.35	2.7787	1.7885	19.9028	21.8009	1.8392	14.3161	6.2135
469819.91	3766450.18	4.0674	1.5234	4.9424	4.6610	1.5708	8.9130	10.8172
469887.79	3766378.19	5.1702	1.8764	4.0990	3.9453	1.9273	7.6845	12.3395
469909.08	3766318.05	6.5554	2.1559	3.7195	3.6281	2.2038	6.7592	12.2762
469126.15	3765757.53	3.0060	27.4955	6.2493	7.9138	35.4115	4.0713	3.3262
469163.90	3766247.31	2.9339	2.4158	17.1446	15.1114	2.5041	12.9554	5.7944
469917.95	3766275.42	2.3621	2.9265	3.4686	3.4065	2.4065	6.1224	11.7022
469861.47	3766420.05	4.4617	1.6767	4.4516	4.2416	1.7267	8.2693	11.6157
469113.88	3765831.67	3.0713	17.8927	8.4816	11.2013	21.9413	4.8819	3.6645
469516.39	3766533.99	2.8997	1.2636	12.9876	11.6402	1.2912	10.0551	7.7393
469535.65	3766534.10	2.9469	1.2144	11.8024	10.6019	1.2378	9.8274	7.8615
469884.03	3766396.40	4.8248	1.7916	4.1814	4.0109	1.8420	7.7962	11.8910
469140.44	3765677.45	2.8702	50.0974	4.4917	5.3470	72.3235	3.3394	2.9436
469838.82	3766444.18	4.1307	1.5597	4.7264	4.4721	1.6074	8.5445	10.8461
469166.60	3766265.52	2.8789	2.2819	14.7196	15.8695	2.3621	12.9072	5.7673
469716.62	3766493.28	3.6143	1.3301	6.3494	5.8538	1.3645	8.2347	9.1887
469913.98	3766336.94	6.0282	2.0681	3.7435	3.6427	2.1165	6.8426	11.9668
469747.28	3766478.41	3.7726	1.3738	5.2566	4.8384	1.3956	7.9072	9.5592
469105.81	3765904.79	3.0939	11.0504	10.6332	13.7216	12.7641	5.8223	3.9883
469922.85	3766294.31	7.2208	2.2652	3.5202	3.4588	2.3103	6.2407	11.6069
469124.91	3765737.81	2.9399	29.4868	5.6928	7.0761	37.9063	3.8468	3.1988
469554.92	3766534.21	2.9922	1.1807	10.7585	9.7243	1.2066	9.5619	7.9354
469910.25	3766355.02	5.6034	1.9864	3.8331	3.7168	2.0357	7.0724	11.9348
469197.23	3766332.02	2.7789	1.8998	16.8634	18.2287	1.9575	13.5679	5.9615
469126.60	3766141.21	3.0187	3.5036	12.9115	14.2431	3.6750	10.3618	5.1982
469685.95	3766508.16	3.4029	1.2393	6.9424	6.4006	1.2744	9.6951	8.0644
469247.10	3766409.56	2.6659	1.6268	23.7774	26.5323	1.6690	13.5040	6.1294
469121.05	3766107.43	3.0603	3.9926	12.7374	14.2254	4.2107	9.6735	5.0525
469651.36	3766515.49	3.2800	1.1981	7.6495	7.0306	1.2312	9.7582	7.7184
469117.88	3766089.58	3.0729	4.3251	12.6502	14.2411	4.5773	9.2730	4.9590
469114.72	3766071.73	3.0805	4.6948	12.5369	14.2393	4.9887	8.8639	4.8579
469906.51	3766373.10	5.2193	1.9046	3.9191	3.7876	1.9544	7.2727	11.7724
469129.59	3766159.42	2.9900	3.2322	12.8900	14.1292	3.3821	10.6741	5.2574
469574.18	3766534.32	3.0327	1.1584	9.9019	8.9949	1.1851	9.2796	7.9684
469880.26	3766414.60	4.5136	1.7090	4.2594	4.0725	1.7584	7.8517	11.3260
469169.60	3766283.72	2.8221	2.1441	14.6316	15.7325	2.2169	12.7679	5.7214
469284.42	3766446.53	2.5917	1.8483	50.4496	64.4315	1.8850	12.9608	6.2019
469111.55	3766053.88	3.0835	5.0230	12.3070	14.1016	5.3619	8.4446	4.7477
469927.75	3766313.20	6.6036	2.1710	3.5493	3.4752	2.2163	6.3303	11.4173
469109.38	3765798.17	2.9682	19.4510	7.1446	9.2180	23.9086	4.4091	3.4301
469123.67	3765718.10	2.8743	31.5182	5.2095	6.3725	40.4140	3.6403	3.0769
469132.59	3766177.62	2.9571	2.9908	12.8554	14.0094	3.1228	10.9408	5.3040
469902.77	3766391.18	4.8728	1.8226	4.0009	3.8538	1.8724	7.4202	11.4664
469796.99	3766475.59	3.7676	1.4099	5.2362	4.9048	1.4529	8.8250	9.5250
469139.20	3765657.74	2.7903	55.4389	4.1037	4.8394	85.1842	3.1627	2.8235
469936.62	3766270.58	7.9373	2.3638	3.3210	3.2859	2.4045	5.7077	10.7453
469108.38	3766036.03	3.0812	5.3938	12.0640	13.9578	5.7884	8.0319	4.6329
469100.31	3765869.72	3.0118	12.4395	9.4027	12.1016	14.6026	5.2218	3.7369
469816.03	3766468.96	3.8253	1.4463	5.0076	4.7074	1.4907	8.5988	9.7488
469593.45	3766534.44	3.0683	1.1480	9.2043	8.3895	1.1757	8.9449	7.9655
469105.21	3766018.18	3.0730	5.9057	11.8724	13.9009	6.3774	7.6363	4.5174
469223.66	3766385.79	2.6682	1.6659	19.2702	21.0261	1.7115	13.1690	5.9447
469102.04	3766000.33	3.0594	6.5103	11.6528	13.8256	7.0826	7.2544	4.3998
469135.59	3766195.83	2.9202	2.7786	12.8132	13.8956	2.8956	11.1548	5.3372
469108.14	3765778.45	2.9159	20.6034	6.5461	8.2916	25.3495	4.1710	3.3093
469932.65	3766332.10	6.0631	2.0853	3.5755	3.4920	2.1314	6.4268	11.1982
469928.94	3766350.07	5.6438	2.0078	3.6633	3.5656	2.0552	6.6645	11.2540
469899.04	3766409.26	4.5608	1.7409	4.0781	3.9147	1.7900	7.4951	11.0189
469941.52	3766289.47	7.2367	2.2731	3.3				

469137.96	3765638.02	2.7122	61.8957	3.7886	4.4243	103.2095	2.9998	2.7093
469946.42	3766308.36	6.6238	2.1821	3.3878	3.3290	2.2247	5.9353	10.6136
469094.82	3765834.66	2.9176	14.3765	8.1480	10.2434	17.2289	4.6973	3.4974
469138.58	3766214.03	2.8506	2.5808	12.7239	13.7489	2.6849	10.7610	5.3552
469917.79	3766403.99	4.6043	1.7705	3.9051	1.8188	2.7631	7.1444	10.6881
469955.28	3766265.73	7.9213	2.3639	3.1646	3.1417	2.4011	5.3362	9.8943
469121.19	3765678.66	2.7399	36.1594	4.4018	5.2364	47.0901	3.2711	2.8461
469951.32	3766327.26	6.0871	2.1020	3.4161	3.3495	2.1459	6.0591	10.5122
469105.66	3765739.02	2.8016	23.4034	5.4928	6.7520	28.6695	3.7413	3.0757
469947.62	3766345.14	5.6751	2.0258	3.5019	3.4209	2.0710	6.2782	10.6159
469943.93	3766363.02	5.2994	1.9490	3.5846	3.4892	1.9952	6.4723	10.6064
469960.19	3766284.63	7.2322	2.2760	3.2014	3.1672	2.3147	5.4636	9.9193
469940.23	3766380.90	4.9569	1.8723	3.6642	3.5544	1.9190	6.6375	10.4941
469268.10	3766454.58	2.4967	1.8181	37.3544	43.3490	1.8548	11.7493	5.7930
469102.06	3766110.80	2.8951	3.7233	11.2162	12.4087	3.9281	8.7618	4.7076
469516.28	3766553.27	2.7553	1.2471	13.0885	11.6481	1.2688	9.8900	7.0357
469098.90	3766092.95	2.9065	3.9892	11.1077	12.3740	4.2227	8.4315	4.6260
469535.54	3766553.38	2.8014	1.1581	11.7091	10.5294	1.1817	8.7816	7.1213
469228.14	3766413.11	2.5587	1.5713	19.2593	20.9882	1.6126	12.0596	5.6842
469701.17	3766520.01	3.3267	1.2308	6.6510	6.1259	1.2631	7.7407	8.0668
469762.50	3766490.25	3.6525	1.3499	5.6419	5.2379	1.3865	7.2861	8.6762
469631.98	3766534.66	3.0781	1.1388	8.0776	7.4084	1.1686	8.8355	6.9635
469095.73	3766075.10	2.9133	4.2797	10.9783	12.3320	4.5473	8.0915	4.5374
469090.13	3765799.38	2.8216	15.6565	6.9555	8.5464	18.7335	4.2434	3.2752
469107.57	3766144.35	2.8590	3.2550	11.2985	12.3515	3.4160	9.3080	4.8296
469136.72	3765618.31	2.6424	70.2888	5.3306	4.0821	125.4075	2.8542	2.6051
469104.42	3765719.31	2.7430	24.7907	5.0634	6.1320	30.3287	3.5485	2.9645
469092.56	3766057.25	2.9156	4.6072	10.8362	12.2665	4.9162	7.7490	4.4435
469891.56	3766445.41	4.0253	1.5838	4.2186	4.0226	1.6302	7.4477	9.8428
469936.54	3766398.78	4.6444	1.7964	3.7402	3.6166	1.8434	6.7750	10.2914
469178.21	3766335.23	2.6545	1.8161	14.2581	15.2596	1.8724	11.7663	5.5102
469110.56	3766162.55	2.8334	3.0437	11.3360	12.3270	3.1865	9.5227	4.8822
469965.09	3766303.52	6.6274	2.1878	3.2348	3.1887	2.2273	5.5632	9.8575
469119.95	3765658.95	2.6678	39.1328	4.0340	4.7604	52.1613	3.1032	2.7351
469089.50	3765925.31	2.9644	8.3862	9.9072	12.1828	9.4433	5.8007	3.8892
469089.39	3766039.40	2.9133	4.9459	10.6536	12.1652	5.3031	7.4059	4.3443
469554.81	3766553.50	2.8425	1.1207	10.6373	9.6312	1.1449	8.5651	7.1743
469147.57	3766268.65	2.7129	2.1665	12.6830	13.5778	2.2441	10.8293	5.3296
469088.89	3765779.66	2.7729	17.0202	6.2164	7.7101	20.3033	4.0265	3.1674
469144.57	3766250.45	2.7594	2.2700	12.6084	13.5409	2.3545	10.5613	5.2597
469812.15	3766487.73	3.6188	1.3755	5.0549	4.7308	1.4156	8.0923	8.7345
469965.04	3766341.49	5.6688	2.0345	3.3544	3.2869	2.0773	5.0222	9.9914
469204.46	3766387.62	2.5629	1.6223	16.1575	17.3719	1.6674	11.7864	5.5252
469086.22	3766021.55	2.9064	5.3295	10.4561	12.0530	5.7453	7.0690	4.2420
469083.05	3766003.70	2.8945	5.8365	10.2782	11.9795	6.3309	6.7451	4.1391
469651.25	3766534.78	3.0983	1.1410	7.6190	7.0048	1.1718	8.7367	6.8823
469969.99	3766322.41	6.0983	2.1108	3.2647	3.2110	2.1517	5.6865	9.8317
469973.95	3766260.89	7.8788	2.3591	3.0171	3.0043	2.3928	4.9931	9.1254
469962.10	3766360.56	5.2770	1.9555	3.4412	3.3589	1.9995	6.1245	10.0267
469574.07	3766553.61	2.8781	1.1067	9.8284	8.9334	1.1316	8.3478	7.2034
469084.01	3765890.24	2.8972	9.7043	9.0425	11.2287	11.1047	5.2416	3.6646
469103.18	3765699.59	2.6866	25.9350	4.7002	5.6097	31.7576	3.3709	2.8585
469831.15	3766481.27	3.6766	1.4084	4.8365	4.5395	1.4492	7.8617	8.8830
469079.88	3765985.85	2.8788	6.2709	10.0031	11.7706	6.8467	6.4251	4.0319
469113.56	3766180.76	2.7769	2.8380	11.3274	12.2606	2.9648	9.3945	4.9229
469932.84	3766416.66	4.3637	1.7171	3.8122	3.6707	1.7631	6.7894	9.8629
469910.36	3766439.93	4.0086	1.6137	4.0448	3.8688	1.6595	7.1093	9.6567
469978.85	3766279.78	7.2087	2.2772	3.0549	3.0322	2.3126	5.1244	9.2045
469230.47	3766441.63	2.4717	1.6410	21.7187	24.0059	1.6836	11.2648	5.5246
469087.65	3765759.95	2.7230	18.0799	5.7236	7.0242	21.5577	3.8226	3.0608
469141.58	3766232.24	2.7885	2.3807	12.5204	13.4925	2.4732	10.0864	4.8056
469670.51	3766534.89	3.1181	1.1507	7.2191	6.6470	1.1822	8.6007	6.8823
469150.57	3766286.86	2.6616	2.0403	12.5838	13.4433	2.1108	10.6552	5.2906
469593.34	3766553.72	2.8890	1.0990	9.1504	8.3432	1.1247	8.0400	7.2020
469118.71	3765639.23	2.5994	42.3907	3.7410	4.3599	58.2097	2.9495	2.6306
469983.75	3766298.68	6.6177	2.1957	3.0897	3.0570	2.2325	5.2402	9.2212
469850.09	3766475.13	3.7292	1.4396	4.6271	4.3541	1.4804	7.5735	8.9369
469286.57	3766486.08	2.4270	1.6510	43.2622	53.0711	1.6792	10.7550	5.6245
469887.83	3766463.49	3.8010	1.5085	4.2788	4.0646	1.5526	7.2859	9.1363
469078.51	3765855.17	2.8185	10.8600	8.1087	10.0406	12.5648	4.7395	3.4448
469101.94	3765679.87	2.6217	27.9360	4.3191	5.1190	34.3920	3.2011	2.7526
469086.41	3765740.23	2.6721	19.0785	5.2985	6.4256	22.6709	3.6314	2.9565
469984.75	3766336.49	5.6806	2.0447	3.2084	3.1534	2.0848	5.5689	9.3767
469988.65	3766317.57	6.0960	2.1179	3.1210	3.0795	2.1560	5.3487	9.2024
469691.17	3765578.38	6.2889	4.3723	1.8937	1.9704	4.2048	2.3057	2.9782
469980.84	3766355.40	5.2992	1.9696	3.2932	3.2242	2.0112	5.7660	9.4567
469758.01	3766511.66	3.3944	1.2850	5.1224	4.6929	1.3056	6.9313	7.8816
469775.53	3766503.16	3.4877	1.3072	5.5013	5.1141	1.3440	7.2684	7.9282
469992.62	3766256.05	7.8120	2.3526	2.8778	2.8742	2.3828	4.6816	8.4441
469929.15	3766434.54	4.1097	1.6391	3.8773	3.7174	1.6834	6.7285	9.3705
469073.02	3765820.11	2.7308	11.9254	7.1962	8.8138	13.8719	4.2942	3.2340
469116.56	3766198.96	2.7415	2.6282	11.2320	12.1163	2.7404	9.2029	4.8433
469612.60	3766553.84	2.9146	1.0927	8.5571	7.8266	1.1192	7.8295	7.0853
469976.93	3766374.31	4.9618	1.8946	3.3750	3.2923	1.9373	5.9444	9.4572
469720.46	3765611.39	2.7260	4.3121	1.8852	1.9608	4.1418	2.3994	3.1825
469906.65	3766457.90	3.8404	1.5385	4.1052	3.9114	1.5824	6.9876	9.0423
469997.52	3766274.94	7.1645	2.2758	2.9161	2.9036	2.3080	4.8129	8.5552
469085.18	3765720.51	2.6222	19.6566	4.9429	5.9027	23.3825	3.4530	2.8560
469153.56	3766305.06	2.6085	1.9230	12.4538	13.2793	1.9873	10.2632	5.1290
469117.47	3765619.52	2.5376	45.9057	3.5016	4.0395	64.7039	2.8112	2.5344
469749.75	3765644.40	8.4393	4.1850	1.7728	1.8976	4.0275	2.4801	3.3794
469209.19	3766416.67	2.4568	1.5171	15.9747	17.1483	1.5575	10.8337	5.2859
470002.42	3766293.84	6.6175	2.1984	2.9519	2.9302	2.2322	4.9310	8.6097
469070.89	3765800.59	2.6861	12.4623	6.7668	8.2250	14.5174	4.0768	3.1276
469183.70	3766367.76	2.5205	1.6456	13.9061	14.8477	1.6940	10.5957	5.3230
469100.71	3765660.16	2.5567	29.9460	3.9803	4.6702	37.2549	3.0426	2.6504
469973.02	3766393.23	4.6311	1.8121	3.4528	3.3517	1.8545	6.0158	9.2212
469119.55	3766217.17	2.6904	2.4574	11.1743	12.0125	2.5581	9.0806	4.6782
470003.44	3766331.50	5.7514	2.0557	3.0688	3.0269	2.0933	5.2592	8.8386
469069.65	3765780.87	2.6432	13.5650	6.2616	7.4050	15.8697	3.8801	3.0307
469516.16	3766572.56	2.6241	1.2046	13.0429	11.5986	1.2237	8.0707	6.4232
469999.56	3766350.28	5.3293	1.9822	3.1525	3.0963	2.0213	5.4422	8.9315
470007.32	3766312.73	6.1059	2.1235	2.9843	2.9542	2.1588	5.0404	8.6262
469687.92	3766545.67	3.0616	1.1445	6.8881	6.3370	1.1743	7.2984	7.1526
469535.43	3766572.67	2.6661	1.1154	11.6447	10.4696	1.1374	7.9097	6.4912
469715.10	3765592.28	6.6595	4.2026	1.8632	1.9357	4.0394	2.3155	3.0319
469083.94	3765700.80	2.5715	20.0541	4.6309	5.4620	23.6928	3.2860	2.7582
469070.45	3765928.29	2.7885	7.1464	8.8600	10.5685	7.9626	5.5940	3.6469
469925.45	3766552.42	3.8798	1.5621	3.9325	3.7533	1.6043	6.6060	8.7956
470011.29	3766251.21	7.7210	2.3443	2.7459	2.7507	2.3711	4.3970	7.8303
46906								

469116.23	3765599.80	2.4757	50.1594	3.2940	3.7662	72.7254	2.6818	2.4419
469099.47	3765640.44	2.4949	31.9082	3.7032	4.3047	40.2042	2.8968	2.5537
469969.11	3766412.14	4.3347	1.7254	3.5194	3.3972	1.7664	5.9784	8.8454
469079.91	3766096.32	2.7122	3.6287	9.7805	10.8005	3.8404	7.3013	4.1944
469060.89	3765989.22	2.7305	5.4728	8.8806	10.2485	5.9486	5.9987	3.8028
470021.09	3766288.99	6.6666	2.1981	2.8208	2.8090	2.2290	4.6436	8.0412
469902.93	3766475.87	3.6350	1.4647	4.1525	3.9386	1.5056	6.7661	8.3495
469081.08	3766114.17	2.7011	1.0977	9.8584	10.8250	3.5849	7.4794	4.1894
469603.29	3765479.35	4.2416	4.8100	1.7926	1.8843	4.5888	2.0027	2.4139
469651.13	3766554.06	2.9339	1.0913	7.5879	6.9754	1.1198	7.8307	6.2185
469773.68	3765658.30	8.8671	3.9839	1.7351	1.8564	3.8393	2.4702	3.4082
469082.70	3765681.08	2.5134	22.0590	4.2666	4.9892	26.3012	3.1287	2.6621
469573.96	3766572.90	2.7355	1.0602	9.7488	8.8641	1.0834	7.5558	6.5535
469067.17	3765741.44	2.5526	15.4419	5.2115	6.1289	17.9018	3.5180	2.8410
469122.55	3766235.37	2.6499	2.3010	11.0983	11.8911	2.3918	8.9526	4.4206
470022.14	3766326.54	5.8181	2.0591	2.9375	2.9052	2.0938	4.9501	8.2810
470018.28	3766345.19	5.3918	1.9916	3.0186	2.9739	2.0281	5.1373	8.4232
469991.80	3766387.83	4.6546	1.8208	3.3058	3.2141	1.8601	5.6128	8.6665
469884.09	3766481.57	3.6073	1.4300	4.3029	4.0604	1.4690	6.8433	8.2313
469274.65	3766501.64	2.3255	1.5109	30.5086	35.0946	1.5378	9.6328	5.2228
470025.99	3766307.89	6.2357	2.1244	2.8547	2.8342	2.1568	4.7479	8.0720
469059.46	3765858.16	2.6810	9.2370	7.4814	9.0288	10.5141	4.5326	3.2848
469185.26	3766389.44	2.4383	1.5515	13.5053	14.3855	1.5957	9.8920	5.0851
469070.40	3766554.17	2.9504	1.0980	7.1902	6.6210	1.1273	7.7561	6.1936
469735.03	3765606.18	7.0537	4.1142	1.8059	1.8782	3.9554	2.3200	3.0789
469593.22	3766573.01	2.7436	1.0529	9.0838	8.2852	1.0769	7.2690	6.5520
470029.96	3766246.36	7.6429	2.3317	2.6216	2.6332	2.3551	4.1331	7.2637
469680.44	3765540.16	5.3197	3.9307	1.8362	1.9095	3.7700	2.1383	2.6987
469773.77	3766523.24	3.2947	1.2564	5.4750	5.0685	1.2876	6.4233	7.2571
469098.23	3765620.73	2.4383	33.8527	3.4747	4.0014	43.1811	2.7642	2.4638
469065.93	3765721.72	2.5059	6.1012	4.8237	5.6591	18.7035	3.3524	2.7489
469125.54	3766253.58	2.5956	2.1668	11.0403	11.7926	2.2491	8.8933	4.3862
470034.86	3766265.26	7.1677	2.2623	2.6606	2.6644	2.2880	4.2563	7.4001
469768.32	3765639.19	8.0978	3.9806	1.7118	1.8265	3.8316	2.3921	3.2561
469921.75	3766470.30	3.6713	1.4878	3.9767	3.7784	1.5274	6.4267	8.1791
469299.77	3766522.61	2.2998	1.5239	49.5802	65.5037	1.5485	9.2114	5.2181
469081.46	3765661.37	2.4542	23.7755	3.9396	4.5909	28.4556	2.9796	2.5680
469791.02	3766514.87	3.3724	1.2814	5.2802	4.9094	1.3155	6.2914	7.3334
469088.54	3766147.48	2.6527	2.9822	9.8792	10.7435	3.1314	7.6997	4.0664
469115.00	3765580.08	2.4092	55.8873	3.0755	3.4920	84.6923	2.5580	2.3507
469591.24	3765462.78	4.0012	4.8550	1.7569	1.8485	4.6247	1.9475	2.3270
470038.75	3766384.15	7.8006	2.1931	2.6971	2.6932	4.3728	7.5032	7.5030
469827.32	3766499.81	3.4878	1.3420	4.8630	4.5454	1.3787	6.3940	7.3396
469612.49	3766573.12	2.7672	1.0494	8.5106	7.7831	1.0740	7.0688	6.4488
470036.99	3766340.13	5.5628	1.9988	2.8909	2.8569	2.0328	4.8560	7.9471
469245.64	3766488.05	2.2800	1.5907	23.5143	25.9781	1.6249	9.3343	4.9946
470040.83	3766321.59	5.9655	2.0621	2.8119	2.7893	2.0940	4.6724	7.7804
469053.97	3765823.09	2.6026	10.1189	6.7559	8.1017	11.5707	4.1291	3.0941
469051.39	3765931.28	2.6486	6.4889	8.0374	9.4265	7.1758	5.2232	3.4946
469987.92	3766406.60	4.3589	1.7302	3.3618	3.2482	1.7679	5.5716	8.3102
469159.20	3766338.44	2.4965	1.7357	12.1972	12.9641	1.7907	9.1888	4.4976
469091.53	3766165.68	2.6279	2.7849	9.8718	10.6829	2.9173	7.7925	4.0721
470044.66	3766303.04	6.3977	2.1238	2.7311	2.7196	2.1533	4.4794	7.5641
470010.57	3766382.49	4.6677	1.8282	3.1660	3.0843	1.8648	5.2686	8.1735
469050.40	3765782.08	2.5208	11.3529	5.9876	7.1080	13.0178	3.7347	2.9013
469797.62	3765672.20	9.2601	3.8009	1.6944	1.8083	3.6673	2.4538	3.4238
470033.16	3766358.67	5.0005	1.9278	2.9694	2.9206	1.9630	4.9927	7.9848
469733.67	3765587.07	6.4559	3.9660	1.7986	1.8651	3.8142	2.2413	2.9370
469128.14	3766271.78	2.5511	2.0405	10.9558	11.6690	2.1153	8.7808	4.3357
469704.37	3765554.06	5.6562	4.0197	1.7948	1.8639	3.8540	2.1569	2.7587
469064.69	3765702.01	2.4600	16.2542	4.6767	5.3173	18.8367	3.1963	2.6586
469574.00	3765446.35	3.7816	5.1839	1.7260	1.8186	4.9213	1.9044	2.2525
469190.23	3766420.22	2.3387	1.4543	13.3675	14.2118	1.4938	9.4428	4.9266
469051.64	3765801.80	2.5585	10.6768	6.3570	7.5847	12.2283	3.9140	2.9894
469762.96	3765620.08	7.4193	3.9622	1.7157	1.8133	3.8132	2.3166	3.1127
469094.53	3766183.89	2.6004	2.6079	9.8569	10.6192	2.7260	7.8597	4.0719
469080.22	3765641.65	2.3963	25.3164	3.6616	4.2335	30.4698	2.8404	2.4776
469846.29	3766493.48	3.5356	1.3703	4.6515	4.3585	1.4073	6.1896	7.2501
469049.16	3765762.37	2.4815	11.9536	5.6421	6.6552	13.7094	3.5640	2.8140
469096.99	3765601.01	2.3813	36.0287	3.2679	3.7311	46.6344	2.6399	2.3771
470048.62	3766241.52	7.7685	2.3180	2.5037	2.5215	2.3381	3.8916	6.7537
469516.05	3766591.84	2.5046	1.1441	12.8362	11.4877	1.1633	7.2961	5.8881
469675.08	3765521.05	4.9683	3.9897	1.7811	1.8560	3.8439	2.0663	2.5823
470029.33	3766377.22	4.6809	1.8540	3.0428	2.9783	1.8897	5.0860	7.9161
470053.52	3766260.42	4.7464	2.5250	2.5427	2.5534	2.2746	4.0104	6.8950
469836.91	3765705.20	10.5764	3.6338	1.6322	1.6907	3.5133	2.5007	3.5732
469202.19	3766449.81	2.2894	1.4212	14.4250	15.3743	1.4578	9.2650	4.8124
469045.90	3765896.21	2.5983	7.1355	7.4907	8.8241	7.9621	4.8251	3.3114
469535.31	3766591.96	2.5417	1.0632	11.4910	10.3417	1.0840	7.1646	5.9434
469792.25	3765653.09	8.4563	3.7996	1.6666	1.7810	3.6623	2.3800	3.2766
469063.45	3765682.29	2.4091	17.5875	4.1899	4.8518	20.4297	3.0505	2.5720
470058.43	3766279.31	6.9511	2.1866	2.5790	2.5827	2.2114	4.1244	7.0116
470051.89	3766353.54	5.2384	1.9406	2.8453	2.8092	1.9737	4.7529	7.6119
469131.54	3766289.99	2.5047	1.9240	10.8533	11.5300	1.9920	8.6246	4.2738
470059.51	3766316.65	6.0451	2.0638	2.6915	2.6782	2.0930	4.4179	7.3210
469047.92	3765742.65	2.4399	12.6580	5.2629	6.0244	14.5463	3.4028	7.2288
469097.53	3766202.09	2.5682	2.4324	9.7926	10.5047	2.5374	7.8699	4.0476
469113.76	3765560.37	2.3436	62.4402	2.8853	3.2575	100.1034	2.4423	2.2636
469865.21	3766487.43	3.5772	1.3975	4.4563	4.1864	1.4348	6.0992	7.1538
469631.75	3766573.23	2.7773	1.0469	8.0026	7.3375	1.0724	7.0805	5.7425
470063.33	3766298.20	6.4770	2.1212	2.6129	2.6998	2.1479	4.2313	7.0950
469554.58	3765592.07	2.5746	1.0350	10.4726	9.4824	1.0561	7.0244	5.9795
469850.84	3765719.10	10.8940	3.5211	1.5516	1.6066	3.4071	2.4653	3.5471
469789.42	3766534.88	3.1616	1.2156	4.7984	4.4018	1.2340	5.9867	6.7532
469757.60	3765600.97	6.7914	3.8557	1.7555	1.8206	3.7115	2.2431	2.9759
469772.38	3766543.15	3.0756	1.2206	4.8561	4.4700	1.2347	6.0564	6.6322
469221.03	3766481.96	2.2270	1.5023	17.0437	18.4687	1.5376	8.7994	4.7343
469699.01	3765534.95	5.2338	3.8831	1.7619	1.8314	3.7355	2.0815	2.6336
469645.79	3765488.04	4.3772	4.1323	1.7473	1.8239	3.9482	1.9713	2.4107
469806.45	3766526.62	3.2252	1.2278	4.5194	4.1829	1.2479	5.8784	6.8243
470048.08	3766371.98	4.6998	1.8663	2.9198	2.8670	1.9000	4.8369	7.5503
469821.55	3765686.10	9.6129	3.6222	1.6217	1.6837	3.4994	2.4308	3.4252
469651.02	3766573.35	2.7954	1.0513	7.5665	6.9493	1.0775	7.0467	5.7157
469262.60	3766516.98	2.2211	1.4345	24.5217	27.5484	1.4660	8.6342	4.8456
469054.58	3766063.99	2.5804	3.8145	8.5676	9.5058	4.0631	6.3132	3.6305
469078.98	3765621.93	2.3453	26.3427	3.4508	3.9623	31.9467	2.7144	2.3941
469100.52	3766220.30	2.5354	2.2884	9.7568	10.4285	2.3830	7.8755	4.0321
469573.85	3766592.18	2.6034	1.0229	9.6810	8.8075	1.0446	6.8813	5.9994
469040.41	3765861.14	2.5464	7.8365	6.9247	8.1665	8.8037	4.3988	3.1328
469051.41	3766046.14	2.5686	4.0423	8.4386	9.4161	4.3219	6.1423	3.5781
469057.75	3766081.84	2.5637	3.5565	8.6366	9.5243	3.7752	6.4655	3.6619
469062.21	3765662.58	2.3545	19.4448	3.8620	4			

469593.11	3766592.29	2.6291	1.0169	9.0394	8.2391	1.0391	6.6683	5.9976
469669.72	3765501.94	4.6416	4.0111	1.7304	1.8059	3.8659	1.9958	2.4709
469064.09	3766117.54	2.5444	3.1209	8.7482	9.5415	3.2921	6.7346	3.7177
469845.48	3765699.99	9.9197	3.5035	1.5374	1.5912	3.3868	2.4007	3.4105
469230.45	3766498.03	2.1925	1.5024	18.8681	20.4227	1.5370	8.5083	4.6750
469103.52	3766238.50	2.4994	2.1512	9.6919	10.3244	2.2365	7.8355	4.0008
469041.91	3765992.59	2.5437	4.7349	7.9334	8.9926	5.1259	5.6220	3.3998
469816.18	3765666.99	8.7719	3.6280	1.6274	1.7329	3.5041	2.3620	3.2851
470025.50	3766395.76	4.3810	1.7497	3.0872	2.9865	1.7829	4.9714	7.4957
469164.69	3766370.97	2.3851	1.5734	11.8510	12.5578	1.6210	8.5386	4.2871
469568.63	3765427.24	3.5595	5.0990	1.6725	1.7622	4.8353	1.8358	2.1566
469752.24	3765581.86	6.2447	3.7425	1.7369	1.7970	3.6079	2.1698	2.8442
469722.94	3765548.85	5.5393	3.9503	1.7150	1.7808	3.7896	2.0958	2.6852
469037.83	3765969.33	2.5279	5.1245	7.7028	8.7924	5.5804	5.3894	3.3267
469612.38	3766592.41	2.6323	1.0144	8.4776	7.7458	1.0372	6.4867	5.9773
469544.70	3765413.34	3.3867	5.5186	1.6568	1.7506	5.2083	1.8079	2.1022
469781.53	3765614.87	7.1141	3.7484	1.6984	1.7608	3.6094	2.2383	3.0047
469034.92	3765826.08	2.4837	8.5388	6.3541	7.4729	9.6310	3.9633	2.9599
469077.74	3765602.22	2.2942	27.3172	3.2712	3.7133	33.3338	2.5962	2.3136
469060.97	3765642.86	2.3026	20.6109	3.6108	4.1499	24.1072	2.7805	2.4023
469842.50	3766511.84	3.3538	1.3080	4.6492	4.3399	1.3403	5.5590	6.8017
470044.26	3766390.43	4.3876	1.7784	2.9781	2.9044	1.8111	4.8012	7.2956
469874.77	3765733.00	11.0763	3.4040	1.4896	1.5434	3.2963	2.4028	3.5105
469693.65	3765515.84	4.9295	4.1808	1.6802	1.7528	3.9998	2.0168	2.5282
469060.51	3766150.61	2.5087	2.7464	8.7299	9.4322	2.8829	6.8811	8.7222
469631.64	3766592.52	2.6518	1.0175	7.9948	7.3169	1.0408	6.3644	5.9415
469106.51	3766256.71	2.4496	2.0231	9.6046	10.1998	2.1002	7.7541	3.9569
469032.34	3765934.26	2.4943	5.6279	7.3037	8.3942	6.1797	5.0728	3.2100
469239.88	3766514.10	2.1581	1.4757	20.2200	22.0436	1.5046	8.1783	4.6003
469640.43	3765468.93	4.1137	4.1144	1.6945	1.7701	3.9275	1.9049	2.3105
469810.82	3765647.88	8.0440	3.6251	1.6060	1.7110	3.4947	2.2939	3.1502
469044.20	3765683.50	2.3104	14.2991	4.3144	4.7968	16.3406	2.9686	2.4825
469094.51	3765561.58	2.2565	42.3671	2.8557	3.2220	57.2731	2.4073	2.2076
469032.39	3765803.01	2.4407	9.0639	6.0059	7.0435	10.2419	3.7524	2.8573
469072.50	3766168.81	2.4767	2.5774	8.7218	9.3819	2.6993	6.9419	3.7237
469045.44	3765703.22	2.3573	13.2856	4.8299	5.5822	15.2175	3.1029	2.5607
469201.02	3766483.70	2.1526	1.4310	14.0926	15.0196	1.4798	8.1321	4.4546
469861.45	3766505.63	3.3921	1.3308	4.4457	4.1595	1.3631	5.3630	6.7183
469140.18	3766341.65	2.3696	1.6584	10.5693	11.1648	1.7117	8.0598	4.0858
469664.36	3765482.83	4.3615	4.1624	1.6714	1.7445	3.9820	1.9304	2.3693
469031.15	3765783.29	2.4071	9.6387	5.7119	6.8009	10.9058	3.5900	2.1777
469565.20	3766611.24	1.0343	11.4531	1.0343	12.2911	1.0537	6.5367	4.4734
469026.85	3765899.19	2.4527	6.1843	6.8794	7.9413	6.8404	4.7532	3.0922
469869.41	3765713.89	10.1270	3.3933	1.4670	1.5185	3.2822	2.3655	3.3827
469776.17	3765595.76	6.5213	3.6020	1.7072	1.7629	3.4759	2.1684	2.8751
469840.11	3765680.88	9.0536	3.4721	1.5395	1.5935	3.3541	2.3375	3.2795
469075.50	3766187.02	2.4528	2.4288	8.7161	9.3389	2.5385	6.9899	3.7246
469059.73	3765623.14	2.2540	21.4267	3.4036	3.8812	25.1557	2.6596	2.3236
469717.58	3765529.74	5.1911	4.0604	1.6365	1.7111	3.8831	2.0291	2.5742
469166.06	3766391.27	2.3163	1.4968	11.5661	12.2316	1.5407	8.1039	4.1606
469029.91	3765763.58	2.3713	10.2517	5.4020	6.2937	11.6052	3.4354	2.6993
469109.51	3766274.92	2.4099	1.9113	9.5252	10.0884	1.9815	7.6564	3.9133
469076.50	3765582.50	2.2368	29.4381	3.0538	3.4501	36.3082	2.4816	2.2330
469042.96	3765663.79	2.2623	15.6474	3.8169	4.3645	17.8894	2.8405	2.4052
469805.46	3765628.77	7.3977	3.6084	1.5998	1.6974	3.4778	2.2274	3.0216
469028.67	3765743.86	2.3342	10.7685	5.1161	5.9304	12.1899	3.2872	2.6213
469554.47	3766611.35	2.4543	1.0109	10.4660	9.4567	1.0307	6.4228	5.5050
469249.30	3766530.17	2.1263	1.3998	20.6408	22.7385	1.4304	7.8394	4.5203
469021.45	3765864.13	2.4111	6.8250	6.4256	7.4342	7.5909	4.4137	2.9646
469788.11	3766554.75	2.9327	1.2001	4.4836	4.1492	1.2131	5.5904	6.0988
469804.98	3766546.56	2.9925	1.2054	4.2913	3.9810	1.2183	5.5197	6.1795
469293.71	3766559.05	2.1362	1.3359	33.4121	40.3060	1.3593	7.6451	4.6303
469688.29	3765496.73	4.6200	4.2065	1.6197	1.6947	4.0084	1.9507	2.4228
469078.50	3766205.23	2.4253	2.2859	8.6842	9.2702	2.3846	7.0044	3.7124
469821.84	3766538.38	3.0511	1.2103	4.1077	3.8217	1.2231	5.4317	6.2427
469771.25	3766562.93	2.8660	1.1942	4.6867	4.3320	1.2073	5.6308	5.9894
469573.73	3766611.47	2.4799	1.0065	9.7245	8.8131	1.0265	6.3078	5.5236
469032.42	3766049.51	2.4387	3.7248	7.6280	8.4405	3.9754	5.6643	3.3527
469311.21	3766565.45	2.1283	1.4285	68.5836	110.5690	1.4526	7.5242	4.6584
469029.25	3766031.66	2.4351	3.9290	7.5078	8.3472	4.2080	5.5212	3.3067
469035.59	3766067.36	2.4363	3.4884	7.7002	8.4731	3.7102	5.7932	3.3819
469864.05	3765694.78	9.2764	3.3687	1.4611	1.5112	3.2556	2.3068	3.2598
469834.75	3765661.77	8.2931	3.4695	1.5610	1.6615	3.3513	2.2746	3.1525
469898.70	3765746.90	11.0664	3.2828	1.4453	1.4989	3.1819	2.2123	3.4006
469038.76	3766085.21	2.4315	3.2740	7.7507	8.4951	3.4710	5.9117	3.4079
469563.27	3765408.13	3.3495	4.8035	1.6266	1.7136	4.5392	1.7692	2.0647
469276.22	3766552.65	2.1180	1.2971	24.6450	28.2888	1.3216	7.5758	4.5312
469093.27	3765541.86	2.1987	45.6278	2.6946	3.0227	63.5631	2.3041	2.1302
469770.80	3765576.65	6.0541	3.6426	1.6627	1.7212	3.5035	2.1024	2.7564
469112.51	3766293.12	2.3679	1.8051	9.4181	9.9503	1.8691	7.5166	3.8558
469041.93	3766103.06	2.4252	3.0908	7.8252	8.5254	3.2672	6.0263	3.4366
469741.51	3765543.64	5.4196	3.8682	1.6267	1.6930	3.7033	2.0360	2.6123
469026.09	3766013.81	2.4253	4.0817	7.3434	8.1936	4.3860	5.3754	3.2472
469857.69	3766523.84	3.1886	1.2143	3.8754	3.5995	1.2289	5.2120	6.3133
469635.06	3765449.82	3.8699	4.0911	1.6442	1.7188	3.9020	1.8407	2.2153
469058.49	3765603.43	2.2069	21.9067	3.2248	3.6476	25.7875	2.5468	2.2482
469041.72	3765644.07	2.2137	16.9762	3.5494	4.0491	19.4948	2.7177	2.3281
469081.49	3766223.43	2.3946	8.6273	9.1777	2.2390	3.7102	6.9836	3.6876
469800.10	3765609.66	6.8041	3.5441	1.6534	1.7091	3.4119	2.1629	2.8992
469219.15	3766514.64	2.0968	1.3697	15.2191	16.4130	1.4087	7.6507	4.3505
469022.92	3765995.96	2.4149	4.2726	7.1909	8.0549	4.6074	5.2327	3.1953
469539.34	3765394.23	3.1927	1.6132	1.7016	1.8016	5.0024	1.7422	2.0136
469965.20	3766431.05	4.0489	1.5982	3.5011	3.3454	1.6325	4.8538	6.4567
469658.99	3765463.72	4.1089	4.2786	1.6114	1.6822	4.0813	1.8677	2.2738
469712.22	3765510.63	4.8479	4.0331	1.5846	1.6595	3.8516	1.9628	2.4661
469045.10	3766120.91	2.4025	2.8880	7.8348	8.4928	3.0442	6.1086	3.4432
469015.86	3765829.06	2.3454	7.2928	5.9760	6.8953	8.1377	4.1346	2.8458
469893.34	3765727.79	10.1650	3.2704	1.4263	1.4772	3.1665	2.2303	3.3456
469018.78	3765972.31	2.3993	4.5716	6.9928	7.8748	4.9539	5.0429	3.1311
469899.22	3766493.85	3.4515	1.3683	4.0567	3.8105	1.3993	4.9639	6.4688
469075.26	3765562.79	2.1731	32.0544	2.8214	3.1777	40.0856	2.3695	2.1515
469829.39	3765642.67	7.6386	3.4635	1.5417	1.6441	3.3394	2.2117	3.0288
469027.43	3765724.14	2.2974	10.9084	4.9408	5.6996	12.3479	3.1437	2.5426
469168.74	3766410.26	2.2553	1.4152	11.2565	11.8832	1.4555	7.6553	4.0105
469876.62	3766517.73	3.2262	1.2175	3.7142	3.4557	1.2326	5.0409	6.2406
469084.49	3766241.64	2.3629	2.0310	8.5755	9.0946	2.1116	6.9492	3.6627
469115.50	3766311.33	2.3251	1.7701	9.3095	9.8139	1.7687	7.3576	3.7959
469145.67	3766374.18	2.2794	1.5090	10.2642	10.8090	1.5550	7.5446	3.9127
469682.92	3765477.62	4.3273	4.1658	1.5768	1.6511	3.9652	1.8863	2.3223
469013.14	3765804.22	2.3190	7.8054	5.6619	6.5306	8.7246	3.7824	2.7237
470032.83	3766445.76	3.6924	1.5635	3.1297	3.0104	1.5949	4.8082	6.6684
469858.68	3765675.67	8.5067	3.3271	1.4758	1.5264	3.		

469011.90	3765784.50	2.2908	8.2670	5.4232	6.2531	9.2520	3.5524	2.6606
469918.06	3766488.18	3.4702	1.3620	3.8200	3.5824	1.3908	4.7677	6.3148
469092.03	3765522.15	2.1432	49.1936	2.5515	2.8463	71.2380	2.2083	2.0568
469824.03	3765623.56	7.0502	3.4410	1.5494	1.6392	3.3176	2.1503	2.9107
469087.49	3766259.84	2.3287	1.9189	8.5047	8.9939	1.9922	6.8834	3.6276
470010.17	3766469.93	3.4857	1.4800	3.2968	3.1495	1.5117	4.9609	6.5676
469026.19	3765704.43	2.2588	11.1482	4.7404	5.4408	12.6153	3.0085	2.4664
469190.03	3766500.85	2.0969	1.2995	12.1239	12.8980	1.3315	7.3416	4.1580
469820.47	3766558.27	2.8862	1.1731	4.1087	4.1854	1.1854	5.1700	5.7671
469007.79	3765902.18	2.3223	5.3611	6.3259	7.1866	5.8814	4.5297	2.9360
469803.75	3766566.39	2.8283	1.1680	4.2841	3.9715	1.1804	5.2250	5.6906
469706.86	3765491.52	4.5322	3.9900	1.5532	1.6226	3.8064	1.8995	2.3645
469296.88	3766579.53	2.0647	1.2486	30.7840	37.2358	1.2720	6.9978	4.3902
469837.20	3766550.16	2.9390	1.1777	3.9431	3.6698	1.1899	5.0933	5.8199
469053.47	3766171.95	2.3485	2.4023	7.7748	8.3229	2.5151	6.2295	3.4275
469787.02	3766574.51	2.7699	1.1626	4.4689	4.1357	1.1751	5.2637	5.6021
469050.48	3766153.74	2.3619	2.5030	7.7009	8.2704	2.6258	6.1391	3.3952
469629.70	3765430.71	3.6528	4.0620	1.5936	1.6680	3.8711	1.7802	2.1271
469882.61	3765689.57	8.6513	3.2241	1.4114	1.4587	3.1161	2.2191	3.1196
469010.66	3765764.79	2.2686	8.7002	5.1887	5.9713	9.7442	3.3066	2.5887
469605.77	3765416.81	3.4518	4.2734	1.5986	1.6732	4.0640	1.7512	2.0700
469237.29	3766545.58	2.0339	1.3524	17.5587	19.0759	1.3838	7.1143	4.2178
469002.30	3765867.11	2.2913	6.0115	5.9744	6.8128	6.6308	4.2220	2.8303
469960.76	3766538.02	2.9389	1.2855	3.7760	3.5793	1.3201	5.4176	6.0958
469071.02	3765543.07	2.1172	34.0370	2.6558	2.9799	43.2794	2.2684	2.0769
469853.32	3766566.56	7.8311	3.3228	1.4887	1.5841	3.2107	2.1914	3.0259
469653.63	3765444.61	3.8693	4.2737	1.5585	1.6325	4.0634	1.8063	2.1820
469975.88	3766550.36	2.7422	1.2630	3.7009	3.5288	1.3004	5.5485	6.0238
469917.27	3765741.69	10.1163	3.1540	1.3896	1.4402	3.0567	2.1228	3.2387
469173.81	3766437.30	2.1816	1.3445	11.1575	11.7684	1.3813	7.2409	3.9087
469994.84	3766544.10	2.7683	1.2918	3.5720	3.4145	1.3290	5.4178	6.0753
469039.24	3765604.64	2.1243	17.9192	3.1778	3.5781	20.6429	2.4954	2.1838
469056.47	3766190.15	2.3272	2.2723	7.7663	8.2841	2.3743	6.2596	3.4255
469998.67	3766525.56	2.9864	1.3411	3.5178	3.3556	1.3761	5.2001	6.1596
469760.08	3765538.43	5.2746	3.6990	1.5162	1.6033	3.5437	1.9754	2.5368
469024.95	3765684.71	2.2189	11.5433	4.5148	5.1540	13.0584	2.8814	2.3927
469022.47	3765645.28	2.1317	13.5462	3.6121	4.0072	15.2639	2.6521	2.2551
469961.29	3766449.97	3.7792	1.3295	3.0065	2.8426	1.3504	4.4308	6.2724
469090.48	3766278.05	2.2924	1.8135	8.4138	8.8746	1.8802	6.7860	3.5823
469818.67	3765604.45	6.5098	3.3824	1.5918	1.6455	3.2571	2.0904	2.7974
469871.88	3766535.81	3.0404	1.1792	3.6500	3.3941	1.1908	4.8786	5.8426
469009.42	3765745.07	2.9151	9.1371	4.9541	5.6846	10.2373	3.1711	2.5177
469146.86	3766393.10	2.2188	1.4335	9.9672	10.4757	1.4759	7.1720	3.7889
469677.56	3765458.51	4.0603	4.1135	1.5378	1.6108	3.9113	1.8245	2.2274
469911.91	3765722.58	9.3938	3.1370	1.3763	1.4240	3.0372	2.1744	3.1922
469263.20	3766567.21	2.0274	1.2395	19.8011	22.1306	1.2713	6.9001	4.2245
469956.88	3766556.80	2.7805	1.2335	3.8374	3.6428	1.2694	5.5256	5.8465
469059.47	3766208.36	2.3055	2.1633	7.7760	8.2685	2.2565	6.2922	3.4302
469730.79	3765505.42	4.7349	3.8223	1.4920	1.5867	3.6517	1.9088	2.4018
469914.36	3766506.06	3.2748	1.2213	3.3729	3.1572	1.2357	4.6818	6.0108
469056.01	3765564.00	2.0950	25.6627	2.7849	3.1300	30.7281	2.3303	2.0964
469010.26	3766035.03	2.3021	3.5451	6.7854	7.4724	3.7863	5.1067	3.0887
469013.43	3766052.88	2.3038	3.3617	6.8712	7.5354	3.5795	5.2165	3.1211
469121.16	3766344.86	2.2454	1.5585	9.1053	9.5657	1.6088	7.0239	3.6792
469847.96	3765637.45	7.2433	3.3129	1.4797	1.5802	3.1950	2.1333	2.9124
469207.62	3766530.85	2.0051	1.3126	13.2486	14.1597	1.3540	6.9418	4.0653
469016.60	3766070.73	2.3012	3.1681	6.9283	7.5637	3.3632	5.3139	3.1434
469996.81	3765832.04	2.2387	6.4207	5.5022	6.3817	7.1020	3.9745	2.7265
469023.71	3765665.00	2.1775	12.2248	4.2376	4.8068	13.8285	2.7628	2.3222
470013.77	3766537.99	2.8573	3.1172	3.4493	3.3002	1.3531	5.1838	6.0023
469019.77	3766088.58	2.2974	2.9990	6.9860	7.5945	3.1748	5.4072	3.1669
469891.79	3766529.79	3.0944	1.1849	3.5989	3.3406	1.1995	4.7467	5.8086
469984.04	3766425.38	4.0330	1.5392	3.2378	3.0902	1.5711	4.2325	6.1922
469007.10	3766017.18	2.2927	3.6677	6.6475	7.3417	3.9282	4.9861	3.0384
469090.79	3765502.43	2.0871	53.6163	2.4152	2.6831	81.5441	2.1174	1.9858
469532.51	3765372.70	2.9860	5.0044	1.5609	1.6462	4.7245	1.6710	1.9184
469062.46	3766226.56	2.2802	2.0535	7.7550	8.2213	2.1384	6.2921	3.4208
469008.18	3765725.35	2.2006	9.5024	4.7375	5.4157	10.6469	3.0411	2.4473
469701.49	3765472.41	4.2487	3.9411	1.5149	1.5864	3.7556	1.8386	2.2688
470025.20	3766482.65	3.3223	1.4425	3.2274	3.0833	1.4732	4.7630	6.1947
469022.94	3766106.43	2.2900	2.8302	7.0212	7.6002	2.9881	5.4862	3.1820
469021.24	3765625.56	2.0875	14.5483	3.3104	3.7238	16.4518	2.5442	2.1868
469093.48	3766296.25	2.2552	1.7190	8.3221	8.7573	1.7801	6.6732	3.5350
469957.38	3766468.88	3.5597	1.2689	3.0111	2.8463	1.2813	4.3948	6.0408
469906.54	3765703.47	8.6993	3.1141	1.3689	1.4145	3.0124	2.1858	3.0886
469784.01	3765552.33	5.4648	5.5320	1.5356	1.5951	3.3859	1.9764	2.5642
469993.89	3765805.43	2.2041	6.8870	5.3258	6.0620	7.6318	3.7679	2.6435
469877.25	3765670.46	7.9777	3.1825	1.4256	1.4735	3.0747	2.1660	3.0119
469813.30	3765585.34	6.0356	3.3347	1.5738	1.6264	3.2093	2.0306	2.6875
469038.00	3765584.92	2.0771	19.0034	2.9926	3.3550	22.0037	2.3924	2.1142
469003.93	3765999.33	2.2804	3.7816	6.5006	7.1970	4.0614	4.8679	2.9879
469072.78	3765523.35	2.0679	36.0028	2.5229	2.8133	46.5896	2.1773	2.0089
469026.11	3766124.28	2.2807	2.6769	7.0511	7.6018	2.8192	5.5574	3.1954
469835.92	3766570.01	2.8223	1.1331	4.1542	3.8282	1.1468	4.9040	5.4647
469754.72	3765519.32	4.9319	3.6627	1.4345	1.5430	3.5063	1.9144	2.4343
469819.32	3766578.07	2.7692	1.1275	4.2960	3.9635	1.1411	4.9573	5.4033
469991.00	3766562.64	2.5777	1.2344	3.6063	3.4430	1.2712	5.3521	5.7351
469065.46	3766244.77	2.2531	1.9527	7.7288	8.1708	2.0304	6.2766	3.4077
470009.95	3766556.43	2.6109	1.2627	3.4842	3.3344	1.2993	5.2316	5.7888
469802.71	3766586.13	2.7136	1.1253	4.4437	4.0893	1.1379	4.9937	5.3273
469624.34	3765411.60	3.4586	4.2083	1.5423	1.6141	4.0081	1.7232	2.0451
469993.65	3765785.71	2.1797	7.1905	5.1449	5.8499	9.7965	3.6482	2.9336
469980.16	3766444.15	3.7769	1.3019	2.8372	2.6965	1.3145	4.2244	6.0186
469842.60	3765618.35	6.7090	3.2845	1.4990	1.5810	3.1674	2.0765	2.8040
469972.02	3766569.01	2.5855	1.2059	3.7373	3.5568	1.2421	5.4137	5.6226
469006.95	3765705.64	2.1649	9.9076	4.5171	5.1423	11.0998	2.9176	2.3785
469648.27	3765425.50	3.6462	4.2253	1.5149	1.5868	4.0113	1.7470	2.0948
469910.67	3766523.94	3.1273	1.1978	3.5204	3.2735	1.2144	4.5906	5.7229
469600.41	3765397.70	3.2773	4.2353	1.5478	1.6227	4.0245	1.6958	1.9922
468999.73	3765975.30	2.2628	3.9624	6.3144	7.0142	4.2714	4.7161	2.9279
469852.53	3766561.95	2.8393	1.1467	3.8052	3.5398	1.1583	4.7981	5.4562
469725.42	3765486.31	4.4351	3.7771	1.4547	1.5486	3.6046	1.8489	2.3056
469485.09	3765351.29	2.7614	5.6902	1.5466	1.6378	5.3272	1.6338	1.8452
469786.10	3766594.19	2.6451	1.1279	4.4919	4.1346	1.1400	4.9939	5.2168
469054.77	3765544.28	2.0440	26.9674	2.6275	2.9415	32.5791	2.2337	2.0267
469991.42	3765766.00	2.1536	7.4855	4.9644	5.6358	8.3097	3.5332	2.5442
469299.32	3766599.75	1.9933	1.1926	28.9836	35.1169	1.2163	6.4234	4.1586
469672.20	3765439.40	3.8181	4.0573	1.4996	1.5721	3.8524	1.7653	2.1382
469901.18	3765684.36	8.0634	3.0848	1.3676	1.4125	2.8820	2.1362	2.9873
469953.00	3766575.57	2.6428	1.1774	3.8737	3.6725	1.2124	5.4061	5.4608
469149.79	3766413.81	2.1497	1.3560	9.7033	10.1808	1.3948	6.7991	3.6631
470017.58	3766519.54	3.0056	1.3477	3.3559	3.1973	1.3795	4.8234	5.8

468990.18	3765746.28	2.1301	7.8617	4.7638	5.3999	8.7314	3.3904	2.4783
469778.65	3765533.22	5.1195	3.5034	1.3877	1.4882	3.3678	1.9165	2.4616
468988.74	3765905.16	2.2087	4.7192	5.8273	6.5359	5.1423	4.2897	2.7820
469888.08	3765547.76	2.9287	1.1485	3.5506	3.3140	1.1603	4.6035	5.4663
469003.23	3765646.49	2.0504	11.5849	3.7025	4.0019	12.9475	2.5840	2.1825
469225.21	3765650.85	1.9499	1.2780	14.3729	15.5213	1.3067	6.4885	3.9452
469837.23	3765599.24	6.2159	3.2233	1.5384	1.5870	3.1049	2.2028	2.6990
469126.65	3766377.39	2.1666	1.4345	8.8889	9.3123	1.4784	6.6543	3.5569
469696.13	3765653.30	3.9899	3.8871	1.4816	1.5521	3.7008	1.7802	2.1785
469036.77	3765565.21	2.0222	21.1349	2.7536	3.0901	24.5952	2.2902	2.0427
468983.25	3765870.10	2.1770	5.2689	5.5608	6.2619	5.7684	4.0412	2.7003
469266.66	3766587.80	1.9617	1.1657	18.8034	20.9842	1.2010	6.3713	4.0240
469088.55	3765482.71	2.0292	59.5790	2.2833	2.5262	95.9844	2.0301	1.9162
469749.35	3765500.21	4.6174	3.6161	1.3946	1.5004	3.4614	1.8559	2.3379
469937.84	3766563.45	2.7759	1.1979	3.9311	3.6993	1.2291	5.2002	5.5203
469183.53	3766525.66	1.9554	1.2143	10.7207	11.2690	1.2434	6.5822	3.8709
469550.87	3765366.79	2.9491	4.6865	1.5245	1.6033	4.4321	1.6350	1.8832
469071.54	3765503.64	2.0175	38.2938	2.3962	2.6588	50.5945	2.0904	1.9426
469999.01	3766438.45	3.7964	1.3143	2.7299	2.5971	1.3268	4.0355	5.7812
470006.14	3766574.88	2.4058	1.2067	3.5129	3.3578	1.2427	5.1581	5.4633
469004.47	3765666.21	2.0907	10.7990	4.0738	4.5929	12.0945	2.6885	2.2453
469866.53	3765632.24	6.8588	3.1680	1.4263	1.5217	3.0559	2.0586	2.8013
469987.17	3766581.18	2.4301	1.1789	3.6375	3.4668	1.2146	5.2267	5.3629
468988.94	3765726.56	2.1037	8.3200	4.5431	5.1457	9.2422	3.0432	2.3559
469940.56	3766506.71	2.0299	1.1998	3.1175	2.9281	1.2132	4.2871	5.5530
469720.06	3765467.20	4.1622	3.7295	1.4346	1.5208	3.5529	1.7915	2.2149
469972.40	3766481.70	3.3866	1.2292	2.9204	2.7648	1.2359	4.1705	5.6299
469031.45	3766156.87	2.2280	2.3085	6.8628	7.3345	2.4200	5.5106	3.1217
470014.00	3766451.39	3.6556	1.5200	3.2056	3.0682	1.5503	4.1729	5.4084
469053.53	3765524.56	1.9993	28.1946	2.5038	2.7863	34.3821	2.1466	1.9630
469001.99	3765626.77	2.0100	12.3932	3.2675	3.6434	13.8431	2.4831	2.1199
469995.15	3766457.10	3.6238	1.4690	3.2661	3.1093	1.4966	4.0262	5.6321
469018.76	3765586.13	2.0054	15.1858	2.9952	3.3249	17.1932	2.3453	2.0566
469618.98	3765392.49	3.2795	4.2763	1.4868	1.5611	4.0554	1.6683	1.9674
469895.82	3765665.25	7.4863	3.0556	1.3656	1.4104	2.9518	2.0865	2.8877
469642.91	3765406.39	3.4413	4.1634	1.4734	1.5438	3.9477	1.6903	2.0126
469802.58	3765547.12	5.2904	3.3711	1.3703	1.4679	3.2396	1.9152	2.4838
469968.17	3766587.66	2.4632	1.1513	3.7694	3.5802	1.1861	5.2441	5.2232
469831.87	3765580.13	5.8055	3.2366	1.4963	1.5463	3.1157	1.9655	2.5983
469503.45	3765345.38	2.7379	5.2474	1.5131	1.5981	4.9371	1.6019	1.8158
469031.44	3766193.28	2.2006	1.2106	6.9366	7.3695	2.2150	5.6157	3.1530
469851.34	3766581.76	2.7420	4.5081	5.1195	5.1222	1.1185	4.6305	1.1307
469034.44	3766175.08	2.2123	2.1968	6.8717	7.3199	2.2984	5.5425	3.1259
469773.29	3765514.11	4.7912	3.4540	1.3520	1.4219	3.3143	1.8596	2.3659
470021.66	3766414.30	4.0263	1.3914	2.6355	2.4945	1.4088	3.8423	5.6423
469666.84	3765420.29	3.5986	3.9946	1.4606	1.5316	3.7910	1.7086	2.0543
469193.06	3766541.91	1.9299	1.1749	10.9189	11.5013	1.2023	6.3849	3.8206
469071.45	3766281.18	2.1730	1.7177	7.4609	7.8421	1.7808	6.0363	3.2860
469595.05	3765378.60	3.1064	4.1901	1.5012	1.5738	3.9787	1.6405	1.9158
468987.70	3765706.85	2.0769	8.8338	4.3125	4.8716	9.8134	2.8267	2.2938
469861.16	3765613.13	6.3757	3.1355	1.4564	1.5300	3.0245	2.0061	2.7016
469867.85	3766573.75	2.7532	1.1137	3.7544	3.4769	1.1254	4.5400	5.1425
468991.28	3766038.41	2.1844	3.1847	6.1366	6.6994	3.3919	4.7169	2.8790
468994.44	3766056.26	2.1858	3.0329	6.2026	6.7481	3.2218	4.8004	2.9035
469154.86	3766440.85	2.0804	1.2773	9.4965	9.9496	1.3125	6.4024	3.5412
469035.53	3765545.49	1.9751	22.1977	2.6005	2.9015	26.0049	2.1978	1.9772
468985.22	3765667.42	2.0079	9.8176	3.8512	4.3104	10.9005	2.6149	2.1720
469040.44	3766211.49	2.1805	2.0203	6.9300	7.3409	2.1067	5.6283	3.1503
469202.59	3766558.16	1.9015	1.1946	11.6992	12.3827	1.2438	6.1874	3.7684
469743.99	3765481.10	4.3311	3.5705	1.3674	1.4721	3.4117	1.7996	2.2469
468934.83	3766589.77	2.7038	1.0953	4.7880	4.4476	1.1222	4.6623	5.0681
469102.14	3766348.07	2.1437	1.4878	8.0062	8.3775	1.5360	6.2448	3.3719
468997.61	3766074.11	2.1839	2.8764	6.2489	6.7735	3.0476	4.8739	2.9210
468988.11	3766020.56	2.1773	3.3006	6.0334	6.6040	3.5240	4.6214	2.8415
468977.76	3765835.03	2.1114	5.2170	5.2391	5.8839	5.7178	3.9387	2.6290
469690.77	3765434.19	3.7559	3.8320	1.4465	1.5155	3.6421	1.7241	2.0934
468986.46	3765687.13	2.0428	9.3482	4.0776	4.5867	10.3821	2.7187	2.2325
470017.83	3766432.84	3.8159	1.3628	2.7735	2.5470	1.3784	3.8540	5.5427
469968.52	3766500.47	3.2374	1.2331	3.1528	2.8855	1.2497	4.1302	5.4284
469991.30	3766475.75	3.4378	1.4192	3.3291	3.1618	1.4470	4.0038	5.4603
469000.78	3766091.96	2.1796	2.7261	6.2831	6.7855	2.8811	4.9384	2.9342
468990.46	3765646.14	6.9641	3.0305	1.3648	1.4075	2.9258	2.0368	2.7901
468974.65	3765806.64	2.0831	5.6236	5.0392	5.6669	6.1781	3.7575	2.5684
469945.65	3766525.62	3.0568	1.1852	3.3098	3.0561	1.2028	4.2149	5.3122
468973.41	3765786.92	2.0720	6.0153	4.9021	5.5173	6.6195	3.6177	2.5254
469000.76	3765607.06	1.9728	12.5364	3.1907	3.4785	14.0218	2.3865	2.0581
469948.12	3766594.35	2.5251	1.1252	3.9046	3.6899	1.1579	5.1132	5.0167
468972.17	3765767.21	2.0551	6.5166	4.7323	5.3255	7.1805	3.4548	2.4646
469310.09	3766623.02	1.9168	1.2585	40.2918	51.6331	1.2794	5.8734	3.9471
469292.40	3766616.55	1.9172	1.1447	23.8381	27.9865	1.1648	5.9184	3.9118
468984.94	3766002.71	2.1576	3.3916	5.9095	6.4812	3.6295	4.5261	2.7985
469903.28	3766559.70	2.8417	1.1239	3.6138	3.3565	1.1419	4.3644	5.1472
470002.33	3766593.32	2.2416	1.1519	3.5358	3.3752	1.1872	5.0493	5.1207
469070.30	3765483.92	1.9635	41.2426	2.2651	2.5051	55.8845	2.0057	1.8764
469003.95	3766109.81	2.1643	2.5875	6.3117	6.7921	2.7281	4.9961	2.9457
469017.52	3765566.42	1.9518	17.8768	2.7213	3.0428	20.4113	2.2476	1.9890
469569.22	3765360.87	2.9290	4.3993	1.4862	1.5605	4.1672	1.6047	1.8544
468983.98	3765647.70	1.9722	10.2608	3.6039	3.8973	11.3704	2.5158	2.1126
469797.22	3765528.01	4.9536	3.2964	1.3235	1.3744	3.1575	1.8600	2.3890
469714.70	3765448.09	3.9129	3.6754	1.4245	1.4926	3.5012	1.7364	2.1293
469855.80	3765594.03	5.9308	3.0810	1.4847	1.5304	2.9685	1.9543	2.6045
469128.25	3766406.15	2.0866	1.3337	8.5412	8.9246	1.3728	6.2213	3.4081
469052.30	3765504.85	1.9531	29.5712	2.3825	2.6385	36.4774	2.0632	1.9006
468970.93	3765747.49	2.0363	6.8945	4.5578	5.1222	7.6015	3.3168	2.4067
469007.12	3766127.66	2.1559	2.4598	6.3357	6.7946	2.5877	5.0475	2.9558
469274.71	3766610.08	1.9027	1.0775	18.6011	20.8972	1.0966	5.9008	3.8488
469043.43	3766229.70	2.1531	1.9019	6.8502	7.2336	1.9798	5.5704	3.1161
469767.92	3765495.00	4.4931	3.3836	1.3190	1.3765	3.2443	1.8047	2.2752
469983.34	3766599.73	2.3008	1.1259	3.6656	3.4870	1.1603	5.0652	4.9892
468980.67	3765978.28	2.1400	3.5309	5.7474	6.3202	3.7902	4.4115	2.7460
469212.11	3766574.41	1.8732	1.2185	12.1685	12.9985	1.2510	5.9722	3.7069
469922.68	3766551.28	2.8894	1.1605	3.8320	3.5024	1.1762	4.2526	5.1206
469074.45	3766299.38	2.1348	1.6150	7.3091	7.6629	1.6723	5.8723	3.2172
469456.03	3765323.97	2.5310	5.9040	1.4943	1.5827	5.5219	1.5620	1.7432
470040.45	3766408.87	4.0346	1.5556	2.8563	2.7467	1.5836	3.6610	5.3805
469257.02	3766603.60	1.8849	1.0979	15.8485	17.3666	1.1202	5.8701	3.7836
469885.10	3765627.03	6.4903	3.3033	1.3747	1.4602	2.9261	1.9874	2.6951
468969.69	3765727.77	2.0115	7.2974	4.3671	4.8968	8.0477	3.1646	2.3282
469983.59	3766513.06	3.1150	1.3391	3.5048	3.3205	1.3695	4.2282	5.0672
469987.44	3766494.40	3.2640	1.3613	3.3679	3.1882	1.3881	3.9694	5.2754
469034.29	3765525.77	1.9326	23.0208	2.4784	2.7504	27.0568	2.1134	

469239.33	3766597.13	1.8647	1.1808	14.1923	15.3902	1.2052	5.8223	3.7149
470036.64	3766427.32	3.8213	1.4095	2.8493	2.6019	1.4183	3.6792	5.3048
468969.69	3765908.15	2.0916	4.1201	5.3556	5.9376	4.4619	4.0869	2.6321
469964.31	3766606.31	2.4163	1.1005	3.7997	3.5997	1.1335	5.0150	4.8253
469850.44	3765574.92	5.5622	3.1026	1.4248	1.4854	2.9869	1.9024	2.5108
469685.41	3765415.08	3.5448	3.7642	1.4077	1.4759	3.5767	1.6702	2.0132
469866.73	3766593.52	2.6405	1.0720	4.0820	3.7207	1.0879	4.3585	4.8278
469821.15	3765541.91	5.1049	3.1733	1.2900	1.3372	3.0428	1.8566	2.4062
469941.75	3766544.53	2.9194	1.2331	3.7786	3.5484	1.2607	4.1220	5.0482
469016.28	3765546.70	1.9085	18.6522	2.5681	2.8564	21.3859	2.1596	1.9276
469791.85	3765508.90	4.6455	3.2560	1.2925	1.3400	3.1125	1.8066	2.2991
469077.44	3766317.59	2.1009	1.5399	7.2260	7.5605	1.5927	5.7652	3.1757
469883.15	3766585.55	2.6637	1.0856	3.6846	3.4207	1.0959	4.2944	4.8442
469879.73	3765607.92	6.0550	2.9974	1.4083	1.4791	2.8924	1.9387	2.6033
468968.45	3765708.06	1.9895	7.6868	4.1763	4.6788	8.4782	2.8792	2.2125
469107.63	3766380.60	2.0713	1.3689	7.7789	8.1159	1.4109	5.9205	3.2563
470006.33	3766488.47	3.2796	1.3994	3.2914	3.1319	1.4283	3.8105	5.1117
469762.56	3765475.89	4.2207	3.3666	1.2973	1.3796	3.2277	1.7517	2.1894
469060.06	3765464.21	1.9132	44.5998	2.1529	2.3734	62.0874	1.9277	1.8145
469709.34	3765428.98	3.6884	3.6158	1.3902	1.4572	3.4413	1.6831	2.0481
469046.43	3766247.90	2.1189	1.7732	6.7019	7.0543	1.8428	5.4364	3.0462
469154.95	3766476.90	1.9813	1.2068	9.0071	9.4141	1.2387	5.8533	3.3816
469587.58	3765354.96	2.9139	4.1366	1.4459	1.5164	3.9245	1.5765	1.8279
469850.30	3766601.49	2.6116	1.0714	4.6381	4.3125	1.0978	4.3924	4.7664
469370.01	3766509.41	1.9518	1.1573	9.5793	10.0398	1.1862	5.7287	3.4045
469133.36	3766430.88	2.0271	1.2634	8.3519	8.7129	1.2991	5.9185	3.3106
469998.52	3766611.77	2.1206	1.0999	3.5576	3.3904	1.1340	4.9008	4.7713
469051.06	3765485.13	1.9007	31.4269	2.2456	2.4826	39.3123	1.9799	1.8365
469474.39	3765318.06	2.5198	5.4898	1.4626	1.5463	5.1464	1.5352	1.7200
469172.35	3766542.46	1.8738	1.1094	8.9566	9.3522	1.1358	5.9049	3.6270
468981.50	3765608.27	1.9010	11.0100	3.1690	3.4154	12.2125	2.3301	1.9969
468998.27	3765567.63	1.8853	15.2551	2.6888	2.9936	17.1735	2.2038	1.9362
469190.81	3766573.96	1.8236	1.1455	10.1864	10.6901	1.1684	5.6819	3.5401
469033.05	3765506.06	1.8894	23.9682	2.3606	2.6077	28.3560	2.0328	1.8573
469163.11	3765526.71	1.8784	1.1277	8.6969	9.0723	1.1552	5.7838	3.6378
468967.21	3765688.34	1.9639	8.1520	3.9691	4.4391	8.9912	2.6348	2.1547
469295.01	3766636.83	1.8509	1.1294	23.5045	27.5330	1.1509	5.4785	3.7164
468958.70	3765838.01	2.0097	4.6119	4.8851	5.4324	5.0219	3.7816	2.5213
469181.58	3766558.21	1.8503	1.0896	9.1939	9.6112	1.1148	5.8390	3.5828
469733.27	3765442.88	3.8315	3.4729	1.3373	1.4271	3.3128	1.6932	2.0798
469011.42	3766160.01	2.1136	2.1423	6.1580	6.5538	2.2441	4.9763	2.8747
469540.15	3765333.55	2.6885	1.4459	4.5883	4.5187	4.3336	1.5408	1.7583
469874.37	3765588.81	5.6567	2.9539	1.4304	1.4737	2.8487	1.8905	2.5136
468964.73	3765648.91	1.8993	9.0504	3.5538	3.9412	9.9774	2.4467	2.0444
469312.16	3766643.10	1.8445	1.2371	41.4751	53.7703	1.2565	5.4008	3.7271
469979.51	3766618.27	2.2006	1.0758	3.6899	3.5033	1.1087	4.8781	4.6276
469164.48	3766493.16	1.9595	1.1644	9.1447	9.5647	1.1944	5.7120	3.3428
468952.92	3765768.42	1.9610	5.6918	4.4926	5.0144	6.2309	3.3580	2.3773
469277.87	3766630.56	1.8406	1.0333	17.5170	19.6773	1.0511	5.4685	3.6631
470002.50	3766507.01	3.1209	1.3494	3.3477	3.1781	1.3782	3.7738	4.9401
469015.41	3766178.21	2.1009	2.0513	6.1745	6.5528	2.1449	5.0005	2.8816
468965.97	3765668.63	1.9318	8.6381	3.7539	4.1820	9.5250	2.5392	2.0993
468972.29	3766041.78	2.0676	2.8855	5.5757	6.0425	3.0653	4.3626	2.6888
469786.49	3765489.79	4.3649	3.2079	1.2606	1.3098	3.0659	1.7549	2.2136
469015.04	3765526.98	1.8689	19.2238	2.4568	2.7198	22.1138	2.0786	1.8703
469632.18	3765368.17	3.0830	4.0173	1.3937	1.4608	3.8009	1.5842	1.8624
468951.68	3765748.70	1.9461	6.0306	4.3557	4.8597	6.6071	3.2413	2.3320
469056.11	3765382.07	3.2164	3.8543	1.3843	1.4525	3.6515	1.6026	1.9009
468955.40	3765807.85	1.9121	4.8152	5.6958	5.2265	5.2525	3.6737	2.4869
468968.12	3766023.93	2.0618	2.9905	5.4975	5.9718	3.1836	4.2926	2.6605
468954.16	3765788.13	1.9275	5.0641	4.5968	5.1225	5.5324	3.5849	2.4582
468975.46	3766059.63	2.0673	2.7477	5.6169	6.0686	2.9121	4.4223	2.7034
469018.41	3766196.42	2.0873	1.9692	6.1938	6.5558	2.0556	5.0256	2.8918
469083.13	3766351.28	2.0402	1.4274	7.1141	7.4204	1.4737	5.5931	3.1135
469260.72	3766624.28	1.8258	1.0351	14.7658	16.1575	1.0562	5.4516	3.6093
469680.04	3765395.97	3.3505	3.6946	1.3732	1.4390	3.5077	1.6186	1.9374
469815.78	3765522.80	4.7896	1.3357	1.2566	1.3025	3.0033	1.8050	2.3176
468950.44	3765728.98	1.9256	6.3977	4.2017	4.6818	7.0126	3.1116	2.2771
469757.20	3765456.78	3.9721	3.3283	1.2825	1.3827	3.1852	1.7005	2.1080
468978.62	3766077.48	2.0642	2.6113	5.6446	6.0792	2.7612	4.4734	2.7130
468980.26	3765588.55	1.8653	11.3638	2.9772	3.2168	12.6071	2.2436	1.9411
469200.05	3766589.71	1.7990	1.0985	10.1876	10.7050	1.1229	5.4950	3.4831
468963.49	3765629.19	1.8659	9.4514	3.3183	3.5608	10.4023	2.3583	1.9905
468965.95	3766006.08	2.0511	3.0683	5.3951	5.8705	3.7278	4.2242	2.6257
469243.57	3766610.01	1.8089	1.0668	13.1291	14.1221	1.0862	5.4218	3.5524
469703.77	3765409.87	3.4839	3.5520	1.3521	1.4218	3.3776	1.6319	1.9714
468997.03	3765547.91	1.8451	15.9402	2.5423	2.8225	17.9878	2.1200	1.8786
469605.94	3765349.05	2.9090	4.1669	1.3898	1.4556	3.9403	1.5506	1.8038
469067.82	3765444.49	1.8657	48.5496	2.0543	2.2559	69.9961	1.8552	1.7563
469879.76	3766606.43	2.5448	1.0455	4.1007	3.6782	1.0614	4.1246	4.5425
468981.79	3766095.33	2.0578	2.4737	5.6540	6.0693	2.6097	4.5115	2.7143
468949.20	3765709.27	1.9058	6.8212	4.0186	4.4659	7.4771	2.9521	2.2036
469492.74	3765312.14	2.5007	5.1149	1.4317	1.5098	4.8058	1.5070	1.6944
468987.28	3766597.93	2.5723	1.0565	3.6363	3.3509	1.0692	4.0693	4.5659
469049.82	3765465.42	1.8510	33.4047	2.1276	2.3468	42.4604	1.9023	1.7759
469226.43	3766611.74	1.7909	1.1247	11.8129	12.6181	1.1543	5.3749	3.4910
470021.39	3766501.10	3.1292	1.3558	3.1991	3.0412	1.3828	3.6344	4.8037
468961.62	3765981.27	2.0268	3.1765	5.2517	5.7269	3.3970	4.1345	2.5841
469031.81	3765486.34	1.8405	25.2608	2.2252	2.4567	30.2098	1.9526	1.7966
468984.96	3766113.18	2.0513	2.3556	5.6703	6.0683	2.4798	4.5467	2.7188
469727.91	3765423.77	3.6157	3.4159	1.3112	1.3976	3.2530	1.6428	2.0025
469110.17	3766408.84	1.9901	1.2752	7.4644	7.7676	1.3128	5.5577	3.1254
469862.23	3766614.93	2.5129	1.0488	4.4840	4.1625	1.0729	4.1603	4.4923
469558.52	3765327.64	2.6853	4.3089	1.4100	1.4810	4.0768	1.5173	1.7375
468945.14	3765876.06	1.9717	4.0824	4.8031	5.2986	4.4154	3.6960	2.4464
469781.13	3765470.68	4.1070	3.1632	1.2422	1.2915	3.0183	1.7050	2.1326
468988.13	3766131.03	2.0448	2.2539	5.6950	6.0775	2.3682	4.5827	2.7278
468956.13	3765946.20	1.9587	3.3831	5.0838	5.5634	3.6315	4.0150	2.5413
468962.25	3765609.48	1.8323	9.8895	3.0493	3.2906	10.8791	2.2734	1.9376
469013.80	3765507.27	1.8289	19.8747	2.3457	2.5835	22.9638	2.0013	1.8144
469994.71	3766630.21	2.0820	1.0537	3.5890	3.4109	1.0860	4.6908	4.4243
468979.02	3765568.84	1.8229	12.9129	2.6656	2.9512	14.3393	2.1593	1.8848
468950.63	3765911.13	1.9277	3.6382	4.9255	5.4088	3.9193	3.8842	2.5008
469810.42	3765503.69	4.4997	3.0936	1.2325	1.2781	2.9602	1.7551	2.2334
468947.96	3765689.55	1.8846	7.1497	3.8536	4.2778	7.8380	2.7187	2.0844
469751.84	3765437.67	3.7458	3.2782	1.2669	1.3615	3.1319	1.6510	2.0306
469650.75	3765362.96	3.0485	3.3754	1.3481	1.4146	3.5742	1.5530	1.8305
468939.65	3765941.00	1.9283	4.2749	4.5928	5.0710	4.6326	3.5700	2.3980
468995.79	3765528.19	1.8080	16.2350	2.4349	2.6900	18.3645	2.0429	1.8249
469297.13	3766656.93	1.7869	1.1147	22.7337	26.5096	1.1325	5.0806	3.5285
469839.72	3765536.70	4.9188	3.0262	1.2241	1.2667	2.9014	1.8001	2.3306
469441.58	3765292.25	2.3423	5.9712	1.4172	1.5002	5.5917	1.4802</	

468933.67	3765769.63	1.8766	5.0281	4.2480	4.7056	5.4730	3.2675	2.2888
469805.06	3765484.58	4.2342	3.0489	1.2122	1.2578	2.9151	1.7066	2.1533
469066.59	3765424.77	1.8198	53.3354	1.9650	2.1485	80.4208	1.7871	1.7009
469775.77	3765451.57	3.8713	3.1162	1.2248	1.2780	2.9873	1.6567	2.0556
469151.95	3766543.56	1.8001	1.0839	7.7683	8.0663	1.1101	5.2525	3.3970
469048.58	3765445.23	1.8085	35.4968	2.0369	2.2351	45.8496	1.8332	1.7216
468932.43	3765749.91	1.8664	5.4131	4.1360	4.5827	5.8982	3.1210	2.2408
469624.29	3765343.14	2.8769	3.9226	1.3722	1.4122	3.7083	1.5202	1.7732
468946.72	3765669.84	1.8602	7.5316	3.6758	4.0760	8.2563	2.4639	2.0285
468934.91	3765789.34	1.8196	4.6006	4.3247	4.7833	4.9992	3.4174	2.3497
468977.78	3765549.12	1.7856	13.5555	2.5245	2.7934	15.1300	2.0798	1.8309
469030.57	3765466.63	1.7956	26.4991	2.1132	3.2533	31.9866	1.8786	1.7400
469722.54	3765404.66	3.4182	3.3522	1.2834	1.3658	3.1899	1.5942	1.9293
469263.72	3766644.71	1.7679	0.9880	13.6530	14.8936	1.0077	5.0726	3.4414
469576.88	3765321.73	2.6716	4.0503	1.3736	1.4413	3.8386	1.4920	1.7139
469114.41	3766434.44	1.9348	1.2090	7.2913	7.5745	1.2433	5.3080	3.0412
468931.19	3765730.19	1.8473	5.6769	4.0179	4.4494	6.1890	3.0261	2.2021
469877.89	3766626.57	2.4179	1.0116	3.9059	3.6094	1.0268	3.9423	4.2562
469863.65	3765550.60	5.0263	2.9231	1.2043	1.2449	2.8060	1.7924	2.3388
469895.27	3766618.14	2.4486	1.0232	3.6756	3.3892	1.0356	3.9018	4.2849
469012.56	3765487.55	1.7829	21.0027	2.2013	2.4266	24.4091	1.9238	1.7568
469912.64	3766609.70	2.4831	1.0312	3.5250	3.2582	1.0437	3.8554	4.3092
469230.32	3766632.49	1.7380	1.0277	10.9452	11.5927	1.0462	5.0249	3.3433
468929.95	3765710.48	1.8271	5.9638	3.8895	4.3022	6.5039	2.9223	2.1570
469135.41	3766479.46	1.8842	1.1466	7.7020	8.0046	1.1770	5.2293	3.0756
468945.48	3765650.12	1.8305	7.8828	3.5088	3.8791	8.6406	2.3770	1.9778
469746.47	3765418.56	3.5391	3.2245	1.2404	1.3372	3.0732	1.6032	1.9571
468994.55	3765508.48	1.7724	16.5595	2.3375	2.5694	18.7809	1.9693	1.7726
469834.35	3765517.59	4.6234	2.9864	1.2005	1.2426	2.8605	1.7520	2.2481
469144.65	3766495.21	1.8786	1.1201	7.8697	8.1833	1.1491	5.1743	3.0761
468944.24	3765630.40	1.8000	8.3045	3.3171	3.6518	9.1003	2.2948	1.9281
468959.77	3765570.05	1.7641	10.8227	2.6552	2.9167	11.9231	2.1139	1.8343
469860.52	3766635.00	2.3386	1.0225	3.6235	3.3712	1.0326	3.9211	4.1537
468953.30	3766045.15	1.9641	2.6120	5.0680	5.4559	2.7677	4.0449	2.5082
469799.70	3765465.47	3.9911	3.0022	1.1933	1.2390	2.8683	1.6596	2.0769
469943.32	3766633.28	2.3171	1.0295	3.9050	3.6596	1.0561	4.3963	4.2202
468950.13	3766027.30	1.9521	2.7043	5.0088	5.4033	2.8708	3.9944	2.4890
468928.71	3765690.76	1.8046	6.1711	3.7719	4.1669	6.7312	2.8413	2.1200
469187.93	3766604.93	1.7293	1.0366	8.6393	8.9987	1.0594	5.0773	3.2805
468943.01	3765610.69	1.7692	8.6609	3.1363	3.4368	9.4935	2.2135	1.8791
468996.38	3766181.34	1.9123	1.9091	5.5503	5.8695	1.9947	4.5157	2.6516
468955.47	3766063.00	2.4888	3.9847	5.0484	5.4642	2.6317	4.0824	2.5135
469668.32	3765357.75	3.0081	3.5510	1.3066	1.3694	3.3648	1.5216	1.7980
468993.39	3766163.14	1.8639	1.9649	5.9490	5.8222	2.0562	4.4739	2.6284
469529.46	3765300.32	2.4676	4.4727	1.3723	1.4411	4.2199	1.4552	1.6469
469770.40	3765432.46	3.6563	3.0861	1.2036	1.2689	2.9566	1.6099	1.9822
468976.54	3765529.40	1.7511	13.7978	2.4161	2.6628	15.3810	2.0056	1.7798
469146.19	3766569.61	1.7318	1.0537	7.2045	7.4471	1.0784	5.1434	3.2333
469693.25	3765371.65	3.1220	3.4169	1.2972	1.3570	3.2450	1.5356	1.8301
468927.48	3765671.05	1.7814	6.4105	3.6465	4.0212	6.9928	2.7496	2.0767
468946.96	3766009.45	1.8487	2.7444	4.9031	5.2948	2.9177	3.9364	2.4564
469047.34	3765425.98	1.7661	37.8920	1.9507	2.1323	49.8928	1.7675	1.6691
469029.33	3765446.91	1.7558	27.7557	2.0255	2.2193	33.8088	1.8116	1.6882
468926.09	3765879.05	1.8305	3.6267	4.4585	4.8783	3.9032	3.5327	2.3369
468999.38	3766199.55	1.9022	1.8215	5.5281	5.8304	1.9001	4.5005	2.6386
469958.64	3766645.08	2.2302	1.0095	3.8177	3.5885	1.0369	4.3200	4.0635
469021.41	3766214.62	1.7776	1.7068	5.7269	6.0270	1.7772	4.6619	2.6655
469717.18	3765385.55	3.2364	3.2882	1.2637	1.3400	3.1271	1.5475	1.8599
468955.64	3766080.85	1.9155	2.3576	5.0878	5.4458	2.4877	4.1052	2.5089
468942.56	3765984.25	1.8170	2.8638	4.8022	5.1995	3.0520	3.8654	2.4299
469065.35	3765405.06	1.7710	59.8866	1.8711	2.0427	95.6457	1.7204	1.6455
469091.09	3766411.53	1.9099	1.2328	6.6397	6.8880	1.2692	5.0242	2.9034
469595.23	3765315.82	2.6526	3.9662	1.3367	1.4019	3.7579	1.4661	1.6890
469291.45	3766674.18	1.7222	1.0903	19.2471	21.8452	1.1076	4.7322	3.3386
469136.59	3766553.25	1.7361	1.0626	6.9913	7.2284	1.0882	4.9656	3.2665
469828.99	3765498.48	4.3513	2.9446	1.1848	1.2272	2.8185	1.7054	2.1696
469642.65	3765337.22	2.8429	3.6737	1.3023	1.3666	3.4721	1.4901	1.7424
469011.32	3765467.84	1.7419	21.8338	2.0968	2.3030	25.5252	1.8532	1.7037
469155.78	3766585.98	1.7104	1.0358	7.3338	7.5813	1.0594	5.0110	3.1940
468941.77	3765590.97	1.7380	8.9772	2.9182	3.0937	9.8265	2.1393	1.8309
469273.63	3766667.66	1.7153	1.0217	14.1500	15.5732	1.0462	4.7377	3.3015
468920.59	3765843.98	1.8244	3.8843	4.3052	4.7199	4.1899	3.4005	2.2917
469858.28	3765531.49	4.7319	2.8862	1.1686	1.2078	2.7672	1.7458	2.2576
469453.87	3765276.27	2.2687	5.3991	1.3682	1.4452	5.0486	1.4310	1.5869
468937.07	3765949.18	1.7745	3.0331	4.6636	5.0642	3.2426	4.7715	2.3977
469052.42	3766284.31	1.7644	1.4662	6.0538	6.3249	1.5187	4.8317	2.7201
468958.54	3765550.33	1.7302	11.2571	2.5216	2.7639	12.4113	2.0391	1.7843
468926.24	3765651.33	1.7590	6.6604	3.5166	3.8692	7.2651	2.6531	2.0290
469741.11	3765399.45	3.3489	3.1654	1.2204	1.3112	3.0149	1.5571	1.8874
468962.80	3766098.70	1.8589	2.2429	5.0887	5.4323	2.3619	4.1230	2.5051
469794.34	3765446.36	3.7684	2.9530	1.1763	1.2196	2.8195	1.6140	2.0040
468993.31	3765488.76	1.7295	17.8085	2.1882	2.4015	20.3111	1.8952	1.7183
468931.58	3765914.12	1.7393	3.2142	4.5205	4.9224	3.4461	3.6718	2.3671
468916.90	3765810.27	1.7445	4.0625	4.1508	4.5561	4.3892	3.3088	2.2615
468914.42	3765770.84	1.7610	4.4612	4.0069	4.4078	4.8314	3.1702	2.2158
468965.97	3766116.55	1.8283	2.1414	5.0937	5.4233	2.2507	4.1382	2.5028
469927.99	3766621.49	2.4058	1.0118	3.7484	3.3789	1.0270	3.6600	4.0762
469165.37	3766602.34	1.6879	1.0322	7.5725	7.8336	1.0553	4.8739	3.1514
468915.66	3765790.55	1.7242	1.4841	4.0701	4.4714	4.5251	3.2609	2.2483
468913.19	3765751.12	1.7792	4.6793	3.9258	4.3213	5.0723	3.0912	2.1859
469910.74	3766629.86	2.3518	1.0033	3.4065	3.1593	1.0133	3.6883	4.0376
469547.82	3765294.41	2.4582	4.2017	1.3410	1.4067	3.9715	1.4329	1.6268
468975.30	3765509.69	1.7168	13.9724	2.3150	2.5417	15.6342	1.9350	1.7303
468823.63	3765479.37	4.1021	2.9008	1.1684	1.2109	2.7747	1.6599	2.0943
469255.82	3766661.14	1.7040	0.9560	11.5753	12.4081	0.9749	4.7265	3.2570
469765.04	3765413.35	3.4588	3.0373	1.1810	1.2710	2.9076	1.5646	1.9123
469024.40	3766232.83	1.7266	1.6118	5.6359	5.9146	1.6757	4.5748	2.6184
469893.49	3766638.23	2.3021	1.0022	3.3843	3.1387	1.0118	3.7001	3.9817
468969.14	3766134.40	1.8193	2.0509	5.1024	5.4190	2.1517	4.1521	2.5023
468911.95	3765731.40	1.7056	4.7249	3.8312	4.2176	5.1238	3.0655	2.1826
469133.96	3766512.88	1.8111	1.0921	7.2270	7.4906	1.1200	4.8176	2.9393
469220.19	3766648.11	1.6744	0.9849	9.3573	9.7973	1.0052	4.6785	3.1621
468940.53	3765571.26	1.7069	9.2962	2.7161	2.9063	10.1725	2.0660	1.7836
469419.30	3765263.63	2.1738	6.1355	1.3578	1.4362	5.6797	1.4131	1.5522
469238.00	3766654.62	1.6901	0.9623	10.2097	10.7881	0.9818	4.7076	3.2109
469687.89	3765352.54	2.9637	3.3382	1.2642	1.3237	3.1684	1.4902	1.7650
468910.71	3765711.69	1.6888	4.8584	3.7407	4.1180	5.2712	3.0109	2.1645
469055.42	3766302.52	1.7188	1.2961	5.9618	6.2154	1.4445	4.7224	2.6717
468957.30	3765530.61	1.6964	11.6744	2.4011	2.6280	12.8916	1.9876	1.7355
469028.09	3765427.19	1.7153	29.1814	1.9389	2.1171	35.9305	1.7473	1.6376
469711.82	3765366.44	3.0688	3.2251	1.2475	1.3142	3.0627	1.5025	

469497.79	3765276.40	2.2904	4.6895	1.3366	1.4058	4.4103	1.4046	1.5723
469064.11	3765385.34	1.7258	67.8620	1.7903	1.9488	115.7536	1.6588	1.5939
468908.23	3765672.26	1.6797	5.2863	3.5598	3.9153	5.7398	2.8533	2.0977
469876.25	3766646.60	2.2290	0.9947	3.4343	3.1991	1.0043	3.6615	3.8707
469735.75	3765380.34	3.1734	3.1105	1.2101	1.2915	2.9609	1.5128	1.8213
468992.07	3765469.05	1.6905	18.4496	2.0804	2.2798	21.1046	1.8267	1.6676
469661.01	3765311.31	2.8016	3.4528	1.2646	1.3244	3.2700	1.4598	1.7107
469095.45	3766437.99	1.8546	1.1595	6.4223	6.6485	1.1924	4.7621	2.8063
469027.40	3766251.03	1.6965	1.5331	5.5685	5.8294	1.5916	4.5013	2.5816
469058.41	3766320.72	1.7216	1.3463	5.9315	6.1733	1.3916	4.6649	2.6528
469134.83	3766586.12	1.6638	1.0197	6.4903	6.6799	1.0434	4.7637	3.0547
469566.17	3765288.49	2.4617	4.0038	1.3046	1.3695	3.7791	1.4142	1.6111
468906.99	3765652.54	1.6876	5.5350	3.4624	3.8041	6.0111	2.7597	2.0526
468974.06	3765489.97	1.6773	15.1579	2.1693	2.3788	17.0125	1.8645	1.6794
469469.20	3765265.32	2.2211	5.0237	1.3314	1.4032	4.7081	1.3941	1.5490
468939.29	3765551.54	1.6753	9.6707	2.5175	2.7363	10.5864	1.9958	1.7373
468977.35	3766184.47	1.7868	1.8197	5.0888	5.3675	1.9004	4.1525	2.4874
468974.36	3766166.27	1.7643	1.8732	5.0480	5.3350	1.9590	4.1226	2.4705
469759.68	3765394.24	3.2767	2.9917	1.1691	1.2570	2.8571	1.5208	1.8459
469115.98	3766482.19	1.8204	1.0966	6.6888	6.9209	1.1258	4.7184	2.8255
469144.17	3766602.06	1.6439	1.0150	6.6640	6.8580	1.0379	4.6504	3.0196
469258.95	3766681.62	1.6498	0.9969	11.2871	12.0765	1.0209	4.4276	3.1145
469812.90	3765441.15	3.6640	2.8059	1.1310	1.1735	2.6803	1.5724	1.9532
468923.76	3765611.90	1.7093	7.4769	3.1580	3.4583	8.1532	2.1564	1.8214
468931.14	3766030.67	1.7429	2.4545	4.5718	4.9018	2.5988	3.7107	2.3294
468956.06	3765510.90	1.6635	11.9775	2.2980	2.5055	13.2449	1.8997	1.6884
468927.97	3766012.82	1.7225	2.5239	4.5129	4.8462	2.6763	3.6703	2.3130
468905.75	3765632.82	1.6683	5.9480	3.3393	3.6603	6.4601	2.5919	1.9718
468934.31	3766048.52	1.7362	2.3594	4.6015	4.9234	2.4937	3.7410	2.3361
469926.19	3766641.59	2.2750	0.9788	3.3081	3.0687	0.9885	3.5055	3.8289
469847.56	3765493.27	4.2063	2.8009	1.1254	1.1638	2.6808	1.6567	2.1064
469030.40	3766269.24	1.6708	1.4636	5.5089	5.7540	1.5175	4.4307	2.5484
469125.48	3766570.19	1.6669	1.0221	6.2889	6.4770	1.0464	4.5490	3.0504
469406.12	3765250.11	2.0956	6.1947	1.3331	1.4097	5.7212	1.3830	1.5124
468904.29	3765864.50	1.6758	3.3632	4.0822	4.4402	3.6080	3.3054	2.2096
469002.38	3766217.75	1.6747	1.6326	5.2269	5.4879	1.6993	4.2617	2.4925
469783.61	3765408.14	3.3763	2.8491	1.1346	1.1797	2.7171	1.5268	1.8680
468980.35	3766202.68	1.7588	1.7324	5.0494	5.3122	1.8062	4.1223	2.4658
468900.25	3765835.14	1.6703	3.5665	3.9854	4.3428	3.8328	3.2164	2.1823
468909.78	3765899.57	1.6571	3.1007	4.1780	4.5313	3.3179	3.4109	2.2375
469515.01	3765268.60	2.2791	4.4010	1.3740	1.4083	4.1472	1.3822	1.5517
469008.84	3765428.40	1.6666	23.5731	1.9263	2.1016	17.9077	1.7260	1.6061
468922.52	3765592.18	1.6804	7.8676	2.9834	3.2534	8.5772	2.0856	1.7771
469706.46	3765347.33	2.9148	3.1534	1.2216	1.2850	2.9963	1.4592	1.7318
468924.80	3765994.97	1.6843	2.5718	4.4338	4.7665	2.7306	3.6254	2.2916
468897.66	3765811.48	1.6556	3.7167	3.9026	4.2578	3.9990	3.1516	2.1621
469026.85	3765407.48	1.6717	30.9379	1.8450	2.0121	38.6309	1.6836	1.5865
469241.60	3766675.27	1.6390	0.9346	9.5820	10.0655	0.9530	4.4135	3.0742
468896.42	3765791.76	1.6483	3.8529	3.8401	4.1941	4.1499	3.1039	2.1489
469433.11	3765250.16	2.1303	5.5823	1.3176	1.3920	5.2111	1.3759	1.5144
469909.05	3766649.91	2.2180	0.9780	3.2085	2.9948	0.9872	3.5018	3.7617
468895.18	3765772.05	1.6364	3.9839	3.7727	4.1243	4.2950	3.0559	2.1350
468990.83	3765449.33	1.6546	19.0377	1.9934	2.1784	21.8681	1.7635	1.6201
469044.86	3765386.55	1.6783	44.3881	1.7794	1.9378	61.5949	1.6427	1.5668
469153.51	3766618.00	1.6236	0.9940	6.7033	6.8957	1.0160	4.5277	2.9792
468921.28	3765572.47	1.6513	8.1997	2.8159	3.0563	8.9423	2.0171	1.7332
468937.48	3766066.37	1.7111	2.2429	4.5987	4.9078	2.3661	3.7552	2.3303
469631.95	3765303.99	2.5936	3.5725	1.2675	1.3249	3.3857	1.4120	1.6349
468938.05	3765531.82	1.6439	10.0166	2.3934	2.6045	10.9687	1.9283	1.6916
468893.94	3765752.33	1.6283	4.1247	3.7023	4.0516	4.4505	3.0042	2.1190
469730.39	3765361.23	3.0117	3.0509	1.2012	1.2734	2.9031	1.4700	1.7584
469033.39	3766287.44	1.6625	1.4126	5.4952	5.7291	1.4630	4.3973	2.5371
468920.77	3765969.70	1.6435	2.6623	4.3428	4.6777	2.8321	3.5710	2.2712
468904.51	3765613.11	1.6473	6.3468	3.1909	3.4851	6.8920	2.4469	1.8990
469064.11	3766354.49	1.6917	1.2525	5.8187	6.0374	1.2925	4.5048	2.5935
469584.53	3765282.58	2.4364	3.7428	1.2764	1.3373	3.5311	1.3890	1.5865
468972.83	3765470.26	1.6408	15.8735	2.0627	2.2544	17.8871	1.7989	1.6314
468892.70	3765732.61	1.5893	4.1567	3.6146	3.9556	4.4870	2.9744	2.1132
469679.37	3765325.40	2.7558	3.2629	1.2316	1.2882	3.0912	1.4296	1.6787
469224.25	3766668.92	1.6261	0.9348	8.5943	8.9490	0.9536	4.3923	3.0321
469754.32	3765375.13	3.1082	2.9425	1.1606	1.2455	2.8038	1.4787	1.7828
469807.54	3765422.04	3.4708	2.7550	1.1117	1.1539	2.6301	1.5305	1.8873
469005.37	3766235.96	1.6514	1.5583	5.1803	5.4260	1.6196	4.2116	2.4659
468915.27	3765934.63	1.6098	2.7730	4.2011	4.5353	2.9569	3.4917	2.2429
468891.46	3765712.90	1.5730	4.2041	3.5258	3.8592	4.5400	2.9367	2.1041
469180.55	3766656.22	1.5964	0.9695	7.4652	7.6991	0.9898	4.3342	2.9410
469842.20	3765474.16	3.9732	2.7571	1.1119	1.1505	2.6372	1.6140	2.0358
46891.91	3766658.22	2.1541	0.9707	3.2865	3.0651	0.9799	3.4703	3.6672
469036.39	3766305.65	1.6507	1.3621	5.4676	5.6902	1.4093	4.3514	2.5206
468954.82	3765491.18	1.6292	12.6118	2.1793	2.3801	13.9506	1.8341	1.6419
468940.65	3766084.22	1.6730	2.1215	4.5746	4.8687	2.2337	3.7536	2.3153
469206.90	3766662.57	1.6119	0.9461	7.9177	8.1966	0.9656	4.3624	2.9876
469127.00	3766536.89	1.7298	1.0388	6.5659	6.7806	1.0648	4.4041	2.7641
469162.86	3766633.94	1.6026	0.9761	6.7492	6.9395	0.9973	4.4011	2.9358
468920.04	3765552.75	1.6223	8.4397	2.6307	2.7610	9.1921	1.9510	1.6900
469778.25	3765389.03	3.2024	2.8221	1.1216	1.1839	2.7052	1.4853	1.8048
469874.78	3766666.54	2.1150	0.9654	3.3915	3.1566	0.9747	3.4675	3.6129
469123.31	3766602.37	1.6002	0.9917	5.8945	6.0429	1.0145	4.4291	2.8920
468890.22	3765693.18	1.5528	4.1584	3.4144	3.7364	4.4913	2.9041	2.0979
468943.82	3766102.07	1.6453	2.0271	4.5710	4.8537	2.1305	3.7570	2.3080
469008.37	3766254.16	1.6311	1.4915	5.1379	5.3696	1.5483	4.1624	2.4415
468983.35	3766220.89	1.6820	1.6204	4.9320	5.1727	1.6866	4.0258	2.4054
468936.81	3765512.11	1.6128	10.3323	2.2846	2.4770	11.3220	1.8637	1.6471
468886.50	3765634.03	1.5519	4.8998	3.2331	3.5361	5.2987	2.6898	2.0084
469392.94	3765236.59	2.0189	6.1921	1.3091	1.3841	5.7382	1.3527	1.4731
469117.41	3766520.52	1.7332	1.0424	6.3430	6.5460	1.0690	4.3775	2.7166
469039.39	3766323.85	1.6441	1.3115	5.4224	5.6333	1.3556	4.2894	2.4967
468887.74	3765653.75	1.5443	4.3909	3.2600	3.5668	4.7457	2.7995	2.0634
469941.60	3766653.34	2.2126	0.9543	3.3776	3.1067	0.9681	3.3448	3.6474
468989.59	3765429.61	1.6197	19.6392	1.9149	2.0838	22.6603	1.7036	1.5745
469007.60	3765408.69	1.6246	24.6904	1.8302	1.9945	29.4986	1.6637	1.5568
469481.87	3765249.97	2.1454	4.6657	1.2861	1.3525	4.3816	1.3472	1.4978
469025.61	3765387.76	1.6310	32.8025	1.7639	1.9209	41.5825	1.6247	1.5387
469419.93	3765236.64	2.0496	5.5191	1.2942	1.3666	5.1397	1.3456	1.4745
469725.02	3765342.12	2.8600	3.0070	1.2038	1.2583	2.8614	1.4289	1.6987
468885.26	3765614.32	1.5587	5.2040	3.1556	3.4471	5.6285	2.5911	1.9574
468971.59	3765450.54	1.6090	15.9891	1.9905	2.1638	18.0753	1.7391	1.5873
469836.83	3765455.05	3.7579	2.7130	1.1008	1.1398	2.5938	1.5725	1.9682
469650.30	3765298.08	2.5684	1.2237	1.2884	1.3284	3.2052	1.3850	1.6071
468888.98	3765673.47	1.5382	4.0908	3.2902	3.5985	4.4190	2.8585	2.0845
469802.18	3765402.93	3.2923	2.7029	1.0933	1.1353	2.5791	1.4899	1.8243
468946.98	3766119.92	1.6178	1.9335	4.5561	4.8263	2.0285	3.7502	2.2958

469446.92	3765236.70	2.0735	5.0652	1.2790	1.3482	4.7359	1.3360	1.4727
469014.36	3766290.58	1.6276	1.3921	5.1138	5.3247	1.4418	4.1122	2.4245
468950.15	3766137.77	1.6095	1.8592	4.5607	4.8212	1.9475	3.7524	2.2919
469697.72	3765319.49	2.7048	3.1013	1.2045	1.2598	2.9485	1.3997	1.6464
468918.80	3765533.03	1.5948	8.5337	2.6217	2.8302	9.3135	1.8867	1.6470
469526.09	3765250.61	2.2117	4.1264	1.2595	1.3216	3.8942	1.3394	1.5038
469772.89	3765369.92	3.0404	2.7957	1.1273	1.2081	2.6666	1.4454	1.7448
468986.34	3766239.09	1.6266	1.5349	4.8524	5.0763	1.5952	3.9539	2.3639
468935.17	3765492.39	1.5812	10.7417	2.7111	2.3555	11.7147	1.8014	1.6035
469907.53	3766669.88	2.0937	0.9491	3.1534	2.9451	0.9580	3.3128	3.5012
469141.58	3766633.53	1.5634	0.9536	5.9350	6.0747	0.9745	4.2197	2.8216
469831.47	3765435.94	3.5596	2.6667	1.0872	1.1264	2.5484	1.5319	1.9032
469017.36	3766308.78	1.6333	1.3454	5.0916	5.2926	1.3921	4.0784	2.4131
468874.69	3765753.54	1.5272	3.6932	3.4895	3.7964	3.9687	2.8904	2.0391
468881.13	3765837.53	1.5423	3.1778	3.7131	4.0204	3.4010	3.0714	2.0850
468885.23	3765867.48	1.5454	3.0012	3.7892	4.0951	3.2066	3.1416	2.1030
468884.02	3765594.60	1.5677	5.7664	3.0290	3.2968	6.2371	2.3694	1.8368
468873.45	3765733.82	1.5200	3.7999	3.4263	3.7303	4.0862	2.8480	2.0272
469045.09	3766357.70	1.6283	1.2264	5.3312	5.5222	1.2656	4.1662	2.4518
468875.93	3765773.26	1.5191	3.4985	3.5268	3.8319	3.7554	2.9433	2.0538
468878.41	3765812.69	1.5282	3.2805	3.6327	3.9379	3.5146	3.0197	2.0707
469890.50	3766678.14	2.0550	0.9439	3.2491	3.0283	0.9527	3.3067	3.4480
469796.82	3765383.82	3.1265	2.6548	1.0809	1.1232	2.5328	1.4506	1.7642
468877.17	3765792.97	1.5171	3.3545	3.5701	3.8739	3.5969	2.9859	2.0633
468955.33	3766169.40	1.5802	1.7324	5.4486	4.7901	1.8098	3.7380	2.2776
469210.71	3766683.29	1.5662	0.9047	7.3192	7.5350	0.9228	4.1087	2.8690
469116.14	3766554.25	1.6627	1.0103	6.0089	6.1858	1.0253	4.1109	2.6370
468902.03	3765573.68	1.5983	7.1600	2.8386	3.0818	7.7716	1.9673	1.6836
468890.73	3765902.55	1.5320	2.7550	3.8455	4.1432	2.9363	3.2180	2.1159
468970.35	3765430.82	1.5771	16.1017	1.9271	2.0901	18.2063	1.6819	1.5444
468988.36	3765409.90	1.5798	20.3975	1.8165	1.9758	23.6877	1.6430	1.5272
469496.82	3765238.40	2.1203	4.3740	1.2540	1.3169	4.1159	1.3203	1.4708
469379.76	3765223.07	1.9441	6.1189	1.2836	1.3568	5.6612	1.3225	1.4342
469006.36	3765388.97	1.5864	25.8004	1.7506	1.9054	31.1180	1.6064	1.5110
469020.36	3766326.99	1.6313	1.2999	5.0593	5.2504	1.3437	4.0357	2.3981
468872.21	3765714.11	1.4957	3.7484	3.3252	3.6203	4.0316	2.8233	2.0231
469024.37	3765368.05	1.5919	34.8292	1.6904	1.8362	44.9344	1.5692	1.4931
469098.22	3766487.79	1.7358	1.0365	5.8172	5.9954	1.0641	4.1891	2.5785
469826.11	3765416.83	3.3767	2.6185	1.0717	1.1110	2.5012	1.4923	1.8409
469406.75	3765223.12	1.9730	5.5845	1.2698	1.3407	5.1916	1.3158	1.4358
469133.76	3766677.09	1.5531	0.9089	6.9606	6.7850	0.9275	4.0790	2.8294
469107.17	3766504.16	1.5947	1.0157	5.9048	6.1056	1.0421	4.1851	1.5916
468955.34	3765451.75	1.5634	13.5597	1.9858	2.1562	15.0869	1.7126	1.5537
469743.59	3765336.91	2.8001	2.8798	1.1869	1.2351	2.7456	1.3986	1.6649
469621.24	3765270.76	2.3851	3.4304	1.2168	1.2709	3.2568	1.3406	1.5386
469668.66	3765292.17	2.5189	3.1964	1.2046	1.2580	3.0362	1.3578	1.5788
468989.34	3766257.30	1.5790	1.4587	4.7770	4.9855	1.5141	3.8817	2.3246
469150.71	3766649.10	1.5443	0.9318	5.9105	6.0429	0.9518	4.1084	2.7818
469570.84	3765252.12	2.2562	3.6672	1.2277	1.2850	3.4761	1.3245	1.5007
468901.71	3765972.69	1.5326	2.4068	3.9822	4.2642	2.5523	3.3315	2.1338
468908.98	3766016.19	1.5460	2.2435	4.0819	4.3549	2.3715	3.3945	2.1507
469973.95	3766656.88	2.1712	0.9811	3.5169	3.2762	1.0002	3.1547	3.4786
469042.38	3765347.12	1.5940	53.3015	1.6284	1.7661	80.1359	1.5303	1.4724
469433.74	3765223.18	2.0043	5.1176	1.2564	1.3246	4.7781	1.3096	1.4377
468958.33	3766187.61	1.5723	1.6578	4.5228	4.7520	1.7292	3.7140	2.2611
468912.15	3766034.04	1.5478	2.1724	4.1138	4.3817	2.2931	3.4162	2.1558
468905.81	3765998.34	1.5330	2.2931	4.0255	4.3000	2.4268	3.3627	2.1380
469767.52	3765350.81	2.8866	2.7706	1.1678	1.2179	2.6456	1.4070	1.6878
469542.63	3765241.67	2.1014	3.1264	1.2264	1.2864	3.6654	1.3154	1.4801
469957.00	3766665.10	2.1161	0.9569	2.9717	2.7644	0.9453	3.1663	3.4410
468866.01	3765615.53	1.4830	4.5883	3.0280	3.2967	4.9441	2.5464	1.9171
468934.33	3765472.68	1.5502	11.0890	2.0757	2.2479	12.1921	1.7420	1.5613
468896.22	3765937.62	1.5082	2.5108	3.8704	4.1543	2.6682	3.2692	2.1141
469820.75	3765397.72	3.2071	2.5698	1.0571	1.0965	2.4538	1.4539	1.7812
468900.79	3765553.96	1.5715	7.4142	2.7107	2.9331	8.0470	1.9052	1.6433
468882.78	3765574.89	1.5464	6.1855	2.8672	3.1050	6.6883	2.2053	1.7461
469716.08	3765313.58	2.6489	2.9618	1.1845	1.2333	2.8194	1.3697	1.6136
469023.33	3766344.64	1.6132	1.2539	5.0081	5.1889	1.2950	3.9757	2.3742
468917.56	3765513.32	1.5675	8.5280	2.5951	2.8008	9.3086	1.8248	1.6049
468915.32	3766051.89	1.5356	2.0793	4.1150	4.3739	2.1914	3.4226	2.1498
469219.08	3766705.68	1.5233	0.9444	7.4180	7.6549	0.9715	3.8851	2.7676
469106.80	3766538.31	1.6631	1.0008	5.7568	5.9215	1.0260	4.0391	2.5628
469791.45	3765364.71	2.9714	2.6566	1.0929	1.1730	2.5388	1.4127	1.7071
468992.34	3766275.50	1.5601	1.3997	4.7329	4.9295	1.4510	3.8337	2.3011
468961.32	3766205.81	1.5561	1.5893	4.4969	4.7145	1.6554	3.6881	2.2450
469077.12	3766418.82	1.5968	1.0929	5.4472	5.6217	1.1246	4.0791	2.4309
469940.06	3766673.32	2.0567	0.9312	2.9364	2.7505	0.9396	3.1443	3.3652
468864.78	3765595.81	1.5151	5.0549	2.9536	3.2090	5.4480	2.3957	1.8289
469105.05	3766571.22	1.6096	0.9975	5.5909	5.7414	1.0218	3.9060	2.5582
468916.32	3765493.60	1.5372	8.9838	2.3121	2.4194	9.8045	1.7675	1.5655
468867.25	3765635.24	1.4725	3.9456	3.0014	3.2677	4.2492	2.6441	1.9671
469460.73	3765223.24	2.0090	4.6959	1.2399	1.3041	4.4016	1.2942	1.4282
469108.92	3766613.71	1.5326	0.9465	5.2130	5.3282	0.9682	3.9665	2.7498
468918.49	3766069.74	1.5225	1.9905	4.1116	4.3614	2.0944	3.4233	2.1417
469923.11	3766681.55	2.0257	0.9271	3.0240	2.8274	0.9356	3.1519	3.3294
469097.45	3766522.37	1.6721	1.0056	5.5903	5.7489	1.0314	4.0146	2.5240
469050.58	3766390.23	1.5896	1.1453	5.1884	5.3595	1.1801	3.9984	2.3853
468987.12	3765390.18	1.5434	21.1130	1.7374	1.8873	24.6817	1.5872	1.4833
468969.11	3765411.11	1.5366	17.2606	1.8020	1.9567	19.6509	1.6215	1.4977
469005.12	3765369.26	1.5510	26.9138	1.6839	1.8265	32.7989	1.5534	1.4682
468951.10	3765432.03	1.5330	13.5540	1.9199	2.0763	15.0892	1.6572	1.5126
469906.17	3766689.77	1.9968	0.9230	3.1151	2.9073	0.9316	3.1571	3.2940
469076.50	3766441.55	1.6110	1.0627	5.4183	5.5854	1.0927	4.0211	2.4266
469366.57	3765209.55	1.8739	6.1871	1.2581	1.3295	5.7128	1.2932	1.3968
469099.28	3766597.27	1.5481	0.9599	5.1537	5.2739	0.9825	3.8703	2.7245
469815.39	3765378.61	3.0494	2.5252	1.0476	1.0855	2.4088	1.4166	1.7242
469639.60	3765264.85	2.3566	3.2598	1.1855	1.2374	3.0949	1.3166	1.5144
469393.56	3765209.60	1.9055	5.6389	1.2461	1.3154	5.2336	1.2884	1.4003
468899.55	3765534.24	1.5456	7.4594	2.6547	2.8688	8.0993	1.8443	1.6029
469023.13	3765348.33	1.5535	37.0389	1.6214	1.7563	48.8680	1.5164	1.4492
469509.71	3765223.42	2.0800	4.0942	1.2129	1.2735	3.8601	1.2879	1.4363
468995.33	3766293.71	1.5398	1.3433	4.6817	4.8667	1.3910	3.7787	2.2748
469588.44	3765244.95	2.2257	3.4632	1.2005	1.2550	3.2883	1.2995	1.4754
469889.22	3766697.99	1.9666	0.9187	3.2083	2.9888	0.9272	3.1551	3.2540
468933.09	3765452.96	1.5197	11.4132	1.9827	2.1484	12.5671	1.6853	1.5202
469687.02	3765286.25	2.4797	3.0319	1.1743	1.2239	2.8828	1.3314	1.5509
468881.54	3765555.17	1.5225	6.4217	2.7448	2.9646	6.9435	2.0701	1.6454
468964.32	3766224.02	1.5314	5.1666	4.4482	4.6528	1.5775	3.6424	2.2182
469762.16	3765331.70	2.7423	2.7437	1.1599	1.2052	2.6195	1.3688	1.6317
468921.66	3766087.59	1.5045	1.8995	4.0948	4.3345	1.9955	3.4135	1.1281
468863.54	3765576.10	1.4955	5.3430	2.8573	3.0973	5.7582	2.2700	1.7590
469								

469118.56	3766630.16	1.5144	0.9156	5.1423	5.2502	0.9362	3.8087	2.7061
468862.30	3765556.38	1.4749	5.5331	2.7683	2.9951	5.9626	2.1880	1.7206
469137.84	3766663.04	1.4906	0.8979	5.2579	5.3521	0.9171	3.8547	2.6437
468924.83	3766105.44	1.4807	1.8074	4.0641	4.2925	1.8956	3.3919	2.1084
468898.31	3765514.53	1.5193	7.5775	2.5759	2.7781	8.2300	1.7862	1.5637
468967.31	3766242.22	1.5090	1.4506	4.4008	4.5933	1.5068	3.5957	2.1923
469095.92	3766555.64	1.6022	0.9797	5.3341	5.4729	1.0040	3.8067	2.4649
468998.33	3766311.91	1.5153	1.2871	4.6161	4.7893	1.3315	3.7999	2.2418
469810.02	3765359.50	2.9016	2.5251	1.0598	1.1339	2.4175	1.3806	1.6698
469128.20	3766646.60	1.4970	0.8989	5.1512	5.2519	0.9186	3.7977	2.6807
469165.38	3766686.03	1.4855	0.8858	5.6361	5.7355	0.9040	3.7933	2.6474
469474.54	3765209.77	1.9772	4.3907	1.2068	1.2677	4.1246	1.2652	1.3985
469554.16	3765224.43	2.1147	3.6442	1.1851	1.2409	3.4513	1.2729	1.4318
468985.88	3765370.47	1.5097	21.8057	1.6694	1.8098	25.6763	1.5354	1.4420
468967.87	3765391.39	1.5015	17.7495	1.7213	1.8679	20.3075	1.5670	1.4553
468949.86	3765412.32	1.4942	14.8759	1.7853	1.9366	16.6886	1.5987	1.4679
469003.88	3765349.54	1.5172	28.0180	1.6242	1.7552	34.5691	1.5035	1.4276
468868.49	3765654.96	1.4324	3.4023	2.8932	3.1438	3.6636	2.6373	1.9477
468931.85	3765433.24	1.4898	11.6846	1.9043	2.0584	12.8601	1.6312	1.4805
469657.96	3765258.93	2.3282	3.0874	1.1525	1.2023	2.9314	1.2932	1.4906
469053.63	3766421.80	1.5515	1.0774	5.0055	5.1576	1.1087	3.8138	2.3148
468880.30	3765535.45	1.4980	6.6181	2.6384	2.8459	7.1563	1.8964	1.5599
469828.00	3766123.29	1.4626	1.7300	4.0448	4.2637	1.8116	3.3737	2.0931
469353.39	3765196.03	1.8079	6.2448	1.2326	1.3024	5.7547	1.2647	1.3608
468861.06	3765326.66	1.4544	5.7219	2.6767	2.8895	6.1655	2.1110	1.6793
469380.38	3765196.08	1.8365	5.6886	1.2213	1.2891	5.2709	1.2598	1.3638
469021.89	3765328.61	1.5161	39.3886	1.5563	1.6837	53.5350	1.4663	1.4071
469524.43	3765211.47	2.0501	3.9179	1.1745	1.2320	3.6855	1.2606	1.4080
469705.38	3765280.34	2.4413	2.8679	1.1424	1.1877	2.7318	1.3056	1.5236
468913.84	3765454.17	1.4769	9.8839	1.9759	2.1279	10.7960	1.6567	1.4867
469001.33	3766330.12	1.4996	1.2409	4.5694	4.7329	1.2825	3.6578	2.2195
469088.11	3766506.43	1.6606	0.9806	5.2454	5.3888	1.0061	3.7997	2.3931
468897.07	3765494.81	1.4922	7.8858	2.4341	2.6136	8.5657	1.7313	1.5263
468970.31	3766260.43	1.4846	1.3867	4.3446	4.5251	1.4387	3.5400	2.1623
469780.73	3765326.49	2.6879	2.6074	1.1248	1.1711	2.4914	1.3399	1.5994
469434.36	3765196.20	1.9013	4.7914	1.1997	1.2629	4.4798	1.2522	1.3715
468931.16	3766141.14	1.4544	1.6687	4.0440	4.2553	1.7449	3.3656	2.0856
469031.67	3766404.07	1.5501	1.1124	4.7525	4.8993	1.1458	3.7076	2.2664
468859.82	3765516.95	1.4335	5.8251	2.6056	2.8090	6.2764	2.0652	1.6547
469039.90	3765307.69	1.5143	64.2968	1.5008	1.6201	111.9568	1.4294	1.3858
469086.78	3766540.06	1.6064	0.9669	5.1041	5.2339	0.9913	3.7219	2.3886
469407.37	3765196.14	1.8450	5.1774	1.2062	1.2707	4.8215	1.2468	1.3572
469804.66	3765340.39	2.7608	2.5124	1.1065	1.1528	2.4018	1.3459	1.6179
469752.79	3765301.75	2.5520	2.6500	1.1147	1.1616	2.5264	1.3134	1.5517
469004.32	3766347.85	1.4909	1.1999	4.5262	4.6809	1.2389	3.6091	2.1998
468895.83	3765475.10	1.4655	8.1153	2.3169	2.4779	8.8180	1.6782	1.4894
469187.61	3766713.49	1.4589	0.8561	5.6822	5.7643	0.8731	3.6281	2.5907
469461.35	3765196.25	1.9146	4.4269	1.1866	1.2467	4.1542	1.2417	1.3671
469057.54	3766445.10	1.5396	1.0366	4.9170	5.0585	1.0659	3.7140	2.2821
468973.31	3766278.63	1.4668	1.3325	4.3013	4.4713	1.3808	3.4940	2.1393
469599.00	3765226.09	2.1335	3.2691	1.1583	1.2095	3.1080	1.2540	1.4219
468966.63	3765371.68	1.4695	18.1969	1.6544	1.7912	20.9276	1.5166	1.4157
468948.62	3765392.60	1.4615	15.2093	1.7050	1.8477	17.1240	1.5462	1.4275
468984.64	3765350.75	1.4772	22.4775	1.6090	1.7395	26.6918	1.4866	1.4027
468869.73	3765674.68	1.3968	3.1134	2.8432	3.0848	3.3520	2.6231	1.9223
468879.07	3765515.74	1.4725	6.9251	2.4961	2.6846	7.4872	1.7483	1.5243
469570.24	3765214.75	2.0841	3.4768	1.1528	1.2070	3.2940	1.2476	1.4055
469488.35	3765196.31	1.9504	4.1058	1.1723	1.2308	3.8658	1.2387	1.3713
468980.61	3765413.53	1.4554	12.9557	1.7796	1.9227	14.3799	1.5765	1.4394
469078.77	3766490.50	1.5929	0.9787	5.0444	5.1810	1.0047	3.6899	2.3086
469676.32	3765253.02	2.2995	2.8931	1.1174	1.1661	2.7481	1.2701	1.4669
469002.65	3765329.82	1.4786	29.4013	1.5490	1.6734	36.9709	1.4524	1.3851
469170.11	3766707.09	1.4468	0.8517	5.2920	5.3631	0.8688	3.5995	2.5545
468912.60	3765434.45	1.4480	10.2340	1.8846	2.0311	11.1736	1.6044	1.4487
468936.30	3766172.53	1.4277	1.5551	4.0079	4.2030	1.6221	3.3238	2.0583
468877.83	3765496.02	1.4469	7.2465	2.3361	2.5024	7.8330	1.6964	1.4892
468976.30	3766296.84	1.4594	1.2899	4.2806	4.4425	1.3354	3.4675	2.1287
469034.59	3766424.78	1.5299	1.0699	4.6552	4.7913	1.1011	3.6098	2.2282
469340.21	3765182.51	1.7445	6.2925	1.2069	1.2751	5.7875	1.2366	1.3256
469089.64	3766580.83	1.5424	0.9418	4.9181	5.0313	0.9647	3.5446	2.3501
469723.73	3765274.43	2.4057	2.6853	1.1004	1.1482	2.5568	1.2807	1.4970
469367.20	3765182.56	1.7684	5.7229	1.1958	1.2619	5.2947	1.2308	1.3273
469020.65	3765308.90	1.4776	41.9051	1.4923	1.6111	59.3331	1.4173	1.3654
468994.60	3765455.38	1.4387	8.2839	2.1809	2.2448	8.9941	1.6272	1.4533
469421.18	3765182.68	1.8296	4.8246	1.1775	1.2392	4.5054	1.2241	1.3354
469799.30	3765321.28	2.6334	2.4729	1.0910	1.1334	2.3624	1.3116	1.5670
468939.30	3766190.74	1.4136	1.4953	3.9863	4.1724	1.5576	3.2974	2.0425
469537.48	3765196.75	2.0000	3.6035	1.1336	1.1870	3.3933	1.2271	1.3713
469009.81	3766380.38	1.4792	1.1301	4.4362	4.5757	1.1651	3.5114	2.1615
469448.17	3765182.73	1.8601	4.4591	1.1665	1.2260	4.1801	1.2203	1.3386
469394.19	3765182.62	1.7832	5.2076	1.1833	1.2464	4.8433	1.2210	1.3241
468979.30	3766315.04	1.4432	1.2427	4.2351	4.3877	1.2853	3.4195	2.1063
469152.62	3766700.69	1.4343	0.8318	4.8329	4.8941	0.8489	3.5619	2.5149
468876.59	3765476.31	1.4218	7.3859	2.2194	2.3018	7.9677	1.6457	1.4543
469475.16	3765182.79	1.8881	4.1343	1.1536	1.2112	3.8891	1.2155	1.3404
468947.38	3765372.89	1.4313	15.5006	1.6413	1.7734	17.5165	1.4975	1.3897
468965.39	3765351.96	1.4391	18.6069	1.5961	1.7232	21.5232	1.4693	1.3781
468942.29	3766208.94	1.4067	1.4451	3.9769	4.1550	1.5034	3.2794	2.0327
468929.37	3765393.81	1.4255	13.1927	1.7065	1.8411	14.6628	1.5265	1.4015
469771.15	3765295.84	2.5046	2.4839	1.0664	1.1160	2.3709	1.2856	1.5210
469080.01	3766564.39	1.5434	0.9376	4.7627	4.8718	0.9608	3.5006	2.2978
469616.06	3765218.02	2.1017	3.0968	1.1309	1.1797	2.9489	1.2201	1.3970
469038.59	3766448.65	1.5181	1.0290	4.5682	4.6942	1.0581	3.5199	2.1980
469644.08	3765228.16	2.1559	2.9484	1.1255	1.1725	2.8128	1.2361	1.4130
468911.36	3765414.74	1.4186	10.7548	1.7904	1.9277	11.7975	1.5539	1.4112
468983.40	3765331.03	1.4418	23.2440	1.5385	1.6622	27.9284	1.4376	1.3625
469502.15	3765182.85	1.9190	3.8769	1.1347	1.1902	3.6458	1.2111	1.3425
468945.29	3766227.15	1.4036	1.4003	3.9729	4.1438	1.4552	3.2659	2.0263
469694.67	3765247.11	2.2635	2.7463	1.0915	1.1374	2.6125	1.2463	1.4419
469125.70	3766678.22	1.4260	0.8472	4.5907	4.6573	0.8653	3.4300	2.5122
469001.41	3765310.11	1.4420	30.7122	1.4825	1.6006	39.5137	1.4045	1.3448
468893.36	3765435.66	1.4118	8.5361	1.9809	2.0741	9.2822	1.5781	1.4182
469174.20	3766727.91	1.4085	0.8300	5.0213	5.0681	0.8464	3.4177	2.4638
468982.30	3766333.25	1.4235	1.1957	4.1777	4.3208	1.2354	3.3610	2.0785
469068.52	3766508.91	1.5941	0.9517	4.7047	4.8217	0.9766	3.4900	2.2282
469582.10	3765198.05	2.0259	3.2116	1.1017	1.1530	3.0348	1.2120	1.3651
469070.37	3766547.94	1.5433	0.9350	4.6122	4.7178	0.9585	3.4516	2.2489
469327.03	3765168.99	1.6854	6.3271	1.1817	1.2483	5.8087	1.2096	1.2921
469742.09	3765268.52	2.3673	2.4943	1.0377	1.0979	2.3776	1.2550	1.4693
469408.00	3765169.16	1.7687	4.8496	1.1559	1.2164	4.5239	1.1991	1.3033
469019.41	3765289.18	1.4415	44.6197	1.4377	1.5486	66.3471	1.3716	1.3262
469434.99	3765169.21	1.8029	4.4841	1.1468	1.2053	4.1996	1.1976	1.308

468928.13	3765374.10	1.3971	13.3796	1.6429	1.7688	14.9082	1.4795	1.3655
469078.59	3765997.86	1.4858	0.9131	4.5164	4.6088	0.9350	3.3216	2.2404
468946.14	3765353.17	1.4030	15.7464	1.5857	1.7083	17.8636	1.4519	1.3540
468910.12	3765395.02	1.3913	10.9204	1.7243	1.8527	11.9641	1.5064	1.3757
468964.15	3765332.24	1.4073	19.0292	1.5339	1.6541	22.1723	1.4229	1.3407
469661.87	3765221.30	2.1234	2.8025	1.0994	1.1446	2.6773	1.2132	1.3891
469488.97	3765169.33	1.8592	3.8832	1.1179	1.1728	3.6468	1.1891	1.3131
468948.28	3766245.36	1.3886	1.3311	3.8978	4.0565	1.3814	3.1950	1.9864
468857.34	3765477.52	1.3807	6.7734	2.1975	2.3404	7.2406	1.6126	1.4194
469097.43	3766630.00	1.4602	0.8889	4.5813	0.8889	0.9094	3.2656	2.2489
468892.12	3765415.95	1.3845	8.8383	1.8431	1.9639	9.6201	1.5308	1.3835
469060.73	3766531.50	1.5464	0.9330	4.4629	4.5653	0.9569	3.3662	2.1946
469789.51	3765289.93	2.4539	2.3324	0.9911	1.0623	2.2305	1.2579	1.4897
468982.16	3765311.32	1.4080	23.9608	1.4727	1.5915	29.1857	1.3915	1.3244
469059.39	3766493.33	1.4726	0.9483	4.5314	4.6437	0.9735	3.3851	2.1497
469713.03	3765241.20	2.2251	2.6178	1.0680	1.1115	2.4941	1.2227	1.4167
469106.86	3766646.07	1.4516	0.8735	4.5841	4.6655	0.8931	3.2183	2.2411
469515.96	3765169.38	1.8791	3.5674	1.0997	1.1514	3.3617	1.1820	1.3115
468874.11	3765436.87	1.3726	7.6294	2.0280	2.0881	8.2506	1.5497	1.3864
469000.17	3765290.39	1.4068	31.9556	1.4286	1.5387	42.1729	1.3592	1.3064
469157.05	3766721.64	1.3861	0.7999	4.5325	4.5738	0.8160	3.2695	2.4288
469627.02	3765199.84	2.0368	2.9642	1.0790	1.1260	2.8122	1.1936	1.3545
469015.56	3766427.76	1.4308	1.0307	4.2100	4.3259	1.0606	3.2973	2.0710
469394.82	3765155.64	1.7170	4.8728	1.1358	1.1953	4.5406	1.1772	1.2751
468951.28	3766263.56	1.3536	1.2815	3.8624	4.0124	1.3288	3.1553	1.9658
469066.17	3766581.79	1.4865	0.9073	4.3810	4.4705	0.9294	3.2770	2.1892
469421.81	3765155.69	1.7445	4.5047	1.1269	1.1843	4.2150	1.1740	1.2784
469597.86	3765187.82	1.9883	2.9899	1.0710	1.1200	2.8302	1.1862	1.3375
468990.79	3766383.59	1.3910	1.0940	4.0593	4.1814	1.1278	3.2380	2.0290
469367.83	3765155.58	1.6795	5.2772	1.1416	1.2025	4.8950	1.1760	1.2665
469448.80	3765155.75	1.7775	4.1737	1.1162	1.1719	3.9201	1.1723	1.2834
469313.85	3765155.47	1.6278	6.3468	1.1565	1.2215	5.8170	1.1827	1.2591
469760.45	3765262.61	2.3231	2.3529	0.9859	1.0545	2.2457	1.2295	1.4412
468856.10	3765457.80	1.3568	6.8857	2.0289	2.1039	7.4066	1.5663	1.3872
469018.18	3765269.47	1.4058	47.6235	1.3861	1.4897	74.7731	1.3278	1.2882
469059.75	3766565.71	1.4947	0.9118	4.2937	4.3831	0.9344	3.2625	2.1616
468926.89	3765354.38	1.3701	13.5244	1.5887	1.7056	15.1084	1.4351	1.3311
469340.84	3765155.52	1.6422	5.7309	1.1463	1.2086	5.2884	1.1743	1.2572
468908.89	3765375.31	1.3633	11.2936	1.6474	1.7675	12.4059	1.4602	1.3407
468944.90	3765333.45	1.3737	15.9812	1.5287	1.6435	18.2141	1.4074	1.3186
469475.75	3765155.81	1.8012	3.8965	1.1016	1.1558	3.6598	1.1673	1.2842
469051.09	3766515.06	1.5401	4.3093	4.4086	4.4086	0.9546	3.2858	1.1151
468890.88	3765396.23	1.3569	9.1770	1.7444	1.8616	9.9877	1.4844	1.3490
468962.91	3765312.53	1.3752	19.4368	1.4708	1.5841	22.8430	1.3779	1.3039
469679.66	3765214.45	2.0895	2.6678	1.0744	1.1179	2.5520	1.1906	1.3652
469565.21	3765170.00	1.9067	3.1012	1.0649	1.1148	2.9310	1.1668	1.3055
469502.78	3765155.86	1.8216	3.5740	1.0844	1.1366	3.3629	1.1610	1.2834
468872.87	3765417.16	1.3480	7.7609	1.9160	1.9866	8.3970	1.5044	1.3537
469139.91	3766715.37	1.3731	0.7975	4.2832	4.3237	0.8138	3.1502	2.3764
468980.92	3765291.60	1.3743	24.6176	1.4189	1.5282	30.4537	1.3470	1.2871
469731.39	3765235.28	2.1872	2.4867	1.0425	1.0847	2.3746	1.1995	1.3919
468954.28	3766281.77	1.3232	1.2236	3.7903	3.9297	1.2670	3.0847	1.9278
469019.63	3766452.21	1.4103	0.9873	4.1096	4.2151	1.0150	3.2012	2.0326
469381.64	3765142.12	1.6704	4.8841	1.1173	1.1754	4.5472	1.1567	1.2487
469408.63	3765142.17	1.7011	4.5107	1.1089	1.1653	4.2180	1.1552	1.2538
468854.86	3765438.08	1.3336	6.9991	1.9194	2.0027	7.5325	1.5213	1.3555
469643.67	3765191.10	2.0048	2.7423	1.0450	1.0905	2.6051	1.1704	1.3299
469354.65	3765142.06	1.6334	5.3029	1.1216	1.1815	4.9128	1.1552	1.2401
468995.93	3765270.68	1.3734	33.2502	1.3781	1.4811	45.1041	1.3167	1.2699
469435.62	3765142.23	1.7226	4.1890	1.0981	1.1529	3.9316	1.1503	1.2549
469529.77	3765155.92	1.8379	3.2908	1.0660	1.1164	3.1041	1.1534	1.2809
469050.32	3766549.64	1.4891	0.9001	4.1212	4.2065	0.9227	3.1537	2.0928
468925.65	3765334.66	1.3434	13.6329	1.5389	1.6461	15.2701	1.3926	1.2977
468907.65	3765355.59	1.3359	11.7251	1.5803	1.6914	12.9668	1.4161	1.3068
469462.61	3765142.29	1.7460	3.9034	1.0857	1.1390	3.6654	1.1459	1.2562
469778.80	3765256.69	2.2772	2.2333	0.9560	1.0230	2.1380	1.2046	1.4136
469669.99	3765198.40	2.0260	2.7005	1.0496	1.0923	2.5735	1.1684	1.3343
468889.64	3765376.52	1.3303	9.4463	1.6639	1.7811	10.2761	1.4400	1.3157
469327.65	3765142.00	1.5930	5.7489	1.1248	1.1856	5.2978	1.1513	1.2287
468943.66	3765313.74	1.3438	16.1967	1.4687	1.5781	18.5570	1.3640	1.2837
469116.28	3766662.15	1.4245	0.8305	4.4110	4.4785	0.8488	3.0590	2.1505
469300.66	3765141.95	1.5699	6.3350	1.1319	1.1947	5.7979	1.1550	1.2254
468993.27	3766407.73	1.3483	1.0345	3.9118	4.0206	1.0653	3.1034	1.9639
469016.94	3765249.75	1.3729	51.6522	1.3382	1.4353	86.6241	1.2874	1.2529
468871.63	3765397.44	1.3237	7.8778	1.8075	1.8948	8.5281	1.4609	1.3218
469076.59	3766630.34	1.4182	0.8602	4.1098	4.1784	0.8802	3.0469	2.1063
469489.60	3765142.34	1.7656	3.6012	1.0708	1.1220	3.3888	1.1401	1.2557
469609.96	3765171.52	1.9248	2.7723	1.0324	1.0806	2.6304	1.1517	1.2980
469067.36	3766614.59	1.4234	0.8698	4.0790	4.1503	0.8903	3.0648	2.0990
469040.90	3766533.57	1.4940	0.9072	4.0419	4.1277	0.9304	3.1120	2.0522
468961.67	3765292.81	1.3442	19.7816	1.4105	1.5208	23.4627	1.3353	1.2687
468957.27	3766299.97	1.2935	1.1693	3.7165	3.8458	1.2094	3.0120	1.8894
469031.81	3766482.17	1.3866	0.9374	4.0666	4.1627	0.9627	3.1235	2.0040
469058.13	3766598.84	1.4326	0.8768	4.0288	4.1018	0.8978	3.0684	2.0833
468853.62	3765418.37	1.3106	7.1080	1.8185	1.9221	7.6496	1.4780	1.3244
469749.74	3765229.37	2.1486	2.3672	1.0183	1.0580	2.2634	1.1766	1.3672
469368.45	3765128.60	1.6264	4.8792	1.0997	1.1562	4.5399	1.1367	1.2232
469041.45	3766498.61	1.3826	0.9155	4.0958	4.1890	0.9397	3.1119	2.0062
469395.44	3765128.65	1.6533	4.4704	1.0909	1.1453	4.1653	1.1344	1.2272
468979.68	3765271.89	1.3426	25.1992	1.3694	1.4718	31.6629	1.3055	1.2520
468996.52	3766430.74	1.3442	1.0010	3.8552	3.9563	1.0299	3.0523	1.9479
469575.67	3765157.62	1.8641	2.8923	1.0348	1.0820	2.7425	1.1394	1.2758
469516.59	3765142.40	1.7821	3.3191	1.0541	1.1025	3.1318	1.1333	1.2539
469422.44	3765128.71	1.6737	4.2026	1.0803	1.1340	3.9271	1.1299	1.2284
469341.46	3765128.54	1.5886	5.3095	1.1025	1.1610	4.9141	1.1344	1.2139
469660.32	3765182.35	1.9689	2.5647	1.0143	1.0596	2.4381	1.1470	1.3048
469689.48	3765194.38	2.0087	2.5461	1.0230	1.0627	2.4288	1.1516	1.3180
469039.66	3766567.34	1.4407	0.8851	3.8869	3.9613	0.9070	3.0341	2.0336
469085.83	3766646.09	1.4036	0.8379	4.0672	4.1291	0.8569	2.9790	2.0786
468906.41	3765335.87	1.3109	11.4772	1.5334	1.6361	12.6461	1.3750	1.2749
469449.43	3765128.77	1.6931	3.9173	1.0690	1.1214	3.6728	1.1249	1.2288
468997.69	3765250.96	1.3418	34.6980	1.3308	1.4274	48.5105	1.2767	1.2355
468888.40	3765356.80	1.3047	9.6203	1.5987	1.7063	10.4764	1.3977	1.2835
468924.42	3765314.95	1.3139	13.7685	1.4700	1.5750	15.4757	1.3498	1.2636
469048.89	3766583.09	1.4320	0.8715	3.9138	3.9854	0.8927	3.0233	2.0377
469113.53	3766693.34	1.3696	0.8105	4.0980	4.1461	0.8279	2.8915	2.0838
469543.58	3765142.46	1.7954	3.0748	1.0363	1.0842	2.9071	1.1255	1.2507
469314.47	3765128.48	1.5484	5.7645	1.1043	1.1639	5.3051	1.1300	1.2022
468870.39	3765377.73	1.2995	7.9996	1.7200	1.8131	8.6652	1.4190	1.2907
468942.42	3765294.02	1.3151	16.3452	1.4146	1.5186	18.8232	1.3229	1.2502
469031.48	3766517.50	1.4134	0.9039	3.9101	3.9938	0.9275	3.0199	1.9803
469476.42	3765128.82	1.7124	3.6129	1.0555	1.1058	3.3999	1.1197	1

468978.44	3765252.17	1.3121	25.6974	1.3228	1.4188	32.7851	1.2660	1.2184
469650.66	3765166.31	1.9066	2.4841	0.9922	1.0375	2.3654	1.1245	1.2742
469000.68	3766455.76	1.3122	0.9533	3.7372	3.8276	0.9800	2.9442	1.8986
469328.28	3765115.02	1.5453	5.2986	1.0847	1.1413	4.9006	1.1139	1.1883
469436.24	3765115.25	1.6420	3.9246	1.0524	1.1036	3.6872	1.1041	1.2021
469530.40	3765128.94	1.7428	3.0885	1.0248	1.0707	2.9252	1.1065	1.2251
468887.16	3765337.08	1.2796	9.7236	1.5368	1.6387	10.5940	1.3571	1.2523
468905.17	3765316.16	1.2839	11.9041	1.4702	1.5696	13.1843	1.3343	1.2426
468960.27	3765318.18	1.2315	1.0960	3.5685	3.6839	1.1323	2.8757	1.8148
469706.83	3765186.79	1.9767	2.3674	0.9899	1.0310	2.2612	1.1299	1.2948
468966.28	3766354.27	1.2579	1.0582	3.5946	3.7026	1.0917	2.8811	1.8277
468869.15	3765358.01	1.2751	8.1448	1.6394	1.7342	8.8290	1.3785	1.2602
469278.42	3765121.54	1.4881	6.3354	1.0963	1.1563	5.7851	1.1156	1.1774
469592.91	3765143.21	1.8131	2.7182	1.0049	1.0499	2.5829	1.1099	1.2428
468923.18	3765295.23	1.2859	13.8276	1.4129	1.5116	15.5874	1.3094	1.2310
469463.23	3765115.30	1.6618	3.6107	1.0401	1.0895	3.3977	1.0997	1.2028
468963.27	3766336.38	1.2384	1.0724	3.5684	3.6792	1.1070	2.8658	1.8136
469104.29	3766677.59	1.3735	0.7989	3.9801	4.0286	0.8163	2.8482	2.0271
469095.06	3766661.84	1.3799	0.8049	3.9554	4.0077	0.8228	2.8684	2.0201
468851.14	3765378.94	1.2651	7.2642	1.6834	1.7784	7.8254	1.3959	1.2644
469735.30	3765197.65	2.0056	2.3442	0.9952	1.0330	2.2415	1.1307	1.3030
468941.18	3765274.31	1.2860	16.4354	1.3593	1.4577	19.0205	1.2830	1.2173
469557.39	3765128.99	1.7534	2.8776	1.0073	1.0529	2.7268	1.0985	1.2213
469490.22	3765115.36	1.6783	3.3495	1.0750	1.1588	3.1588	1.0941	1.2020
469030.43	3766551.59	1.4302	0.8655	3.6991	3.7690	0.8872	2.8769	1.9293
469671.29	3765164.17	1.8963	2.3627	0.9727	1.0178	2.2530	1.1110	1.2623
469260.39	3765118.07	1.4569	6.6422	1.0912	1.1511	6.0388	1.1072	1.1638
468959.19	3765253.38	1.2839	20.1672	1.3142	1.4096	24.3413	1.2553	1.2017
469369.08	3765101.61	1.5557	4.4277	1.0548	1.1067	4.1249	1.0915	1.1733
469640.99	3765150.26	1.8446	2.4553	0.9775	1.0219	2.3375	1.1022	1.2441
469342.09	3765101.56	1.5314	4.8548	1.0625	1.1158	4.5062	1.0933	1.1692
469021.19	3766535.84	1.4058	0.8745	3.6455	3.7168	0.8969	2.8515	1.9014
469396.07	3765101.67	1.5772	4.1146	1.0452	1.0963	3.8542	1.0886	1.1759
469517.22	3765115.42	1.6925	3.0943	1.0119	1.0572	2.9309	1.0877	1.2001
468971.77	3766386.80	1.2488	1.0069	3.5378	3.6355	1.0373	2.8217	1.8042
469291.20	3765107.88	1.4779	5.8114	1.0734	1.1310	5.3359	1.0970	1.1610
469697.23	3765170.84	1.9175	2.2802	0.9639	1.0073	2.1771	1.1090	1.2659
469423.06	3765101.73	1.5961	3.8585	1.0358	1.0852	3.6208	1.0846	1.1771
468885.92	3765317.37	1.2542	9.9447	1.4709	1.5680	10.8407	1.3178	1.2216
469022.06	3766501.43	1.2843	0.8845	3.7030	3.7811	0.9078	2.8596	1.8690
468867.91	3765338.29	1.2507	8.2826	1.6559	1.6559	8.9757	1.3392	1.2302
468903.93	3765296.44	1.2579	11.8964	1.4157	1.5100	13.1918	1.2955	1.2119
469012.63	3766485.35	1.2741	0.8999	3.6605	3.7407	0.9240	2.8482	1.8545
469450.05	3765101.78	1.6135	3.6049	1.0245	1.0730	3.3930	1.0801	1.1775
468849.90	3765359.22	1.2427	7.3192	1.6250	1.7161	7.8859	1.3571	1.2354
468921.94	3765275.52	1.2588	13.8118	1.3601	1.4548	15.6018	1.2709	1.1997
469544.21	3765115.47	1.7037	2.8824	0.9955	1.0405	2.7315	1.0805	1.1970
469753.20	3765190.99	1.9679	2.2411	0.9737	1.0097	2.1473	1.1090	1.2794
469607.28	3765130.69	1.7706	2.5559	0.9760	1.0203	2.4318	1.0840	1.2144
469477.04	3765101.84	1.6299	3.3513	1.0127	1.0598	3.1617	1.0751	1.1772
469272.65	3765104.31	1.4466	6.0803	1.0687	1.1263	5.5611	1.0888	1.1476
468939.95	3765254.59	1.2571	16.4239	1.3050	1.3997	19.0805	1.2446	1.1853
469011.96	3766520.09	1.3187	0.8754	3.5527	3.6237	0.8982	2.7880	1.8505
469304.23	3765094.27	1.4715	5.3295	1.0549	1.1095	4.9204	1.0803	1.1463
468974.07	3766409.56	1.2327	0.9688	3.4599	3.5494	0.9972	2.7530	1.7739
469631.33	3765134.22	1.7852	2.4320	0.9638	1.0063	2.3166	1.0803	1.2150
469504.03	3765101.90	1.6442	3.1025	0.9985	1.0432	2.9349	1.0693	1.1758
469571.12	3765115.53	1.7121	2.6929	0.9792	1.0228	2.5603	1.0724	1.1928
469687.63	3765154.90	1.8578	2.2349	0.9453	0.9882	2.1343	1.0881	1.2372
469254.11	3765100.74	1.4226	6.4022	1.0656	1.1236	5.8287	1.0837	1.1378
469717.10	3765167.45	1.8986	2.1664	0.9388	0.9825	2.0710	1.0931	1.2503
469355.90	3765088.09	1.5094	4.4504	1.0368	1.0877	4.1320	1.0706	1.1473
469382.89	3765088.15	1.5308	4.1072	1.0286	1.0782	3.8412	1.0682	1.1503
469409.88	3765088.21	1.5504	3.8285	1.0191	1.0677	3.5926	1.0650	1.1523
468866.67	3765318.58	1.2263	8.4213	1.4911	1.5849	9.1179	1.3012	1.2008
468884.68	3765297.65	1.2293	10.2922	1.4134	1.5024	11.2943	1.2801	1.1918
468848.66	3765339.50	1.2205	7.3649	1.5666	1.6527	7.9356	1.3196	1.2071
468902.69	3765276.73	1.2322	11.8338	1.3626	1.4543	13.1280	1.2582	1.1818
469285.30	3765090.63	1.4402	5.5833	1.0476	1.1036	5.1354	1.0724	1.1334
469531.02	3765101.95	1.6559	2.8834	0.9832	1.0276	2.7365	1.0627	1.1733
469436.87	3765088.26	1.5664	3.6184	1.0099	1.0577	3.4110	1.0606	1.1526
469743.65	3765175.13	1.9155	2.1418	0.9434	0.9825	2.0492	1.0907	1.2533
468977.48	3766433.72	1.2244	0.9363	3.4032	3.4857	0.9629	2.7037	1.7559
469653.10	3765133.97	1.7844	2.3065	0.9461	0.9891	2.2011	1.0709	1.2081
469463.86	3765088.32	1.5835	3.2455	0.9582	1.0444	3.1566	1.0563	1.1529
468920.70	3765155.80	1.2312	13.7235	1.3977	1.5152	15.5152	1.2334	1.1687
469266.37	3765086.98	1.4172	5.8434	1.0477	1.1029	5.3550	1.0678	1.1241
469317.44	3765080.69	1.4575	4.8933	1.0343	1.0857	4.5404	1.0605	1.1280
469558.01	3765102.01	1.6649	2.6978	0.9683	1.0112	2.5621	1.0553	1.1697
469490.85	3765088.38	1.5978	3.1059	0.9852	1.0302	2.9417	1.0511	1.1520
469678.02	3765138.96	1.8000	2.2082	0.9325	0.9740	2.1097	1.0677	1.2094
469621.66	3765118.17	1.7288	2.4032	0.9488	0.9909	2.2905	1.0590	1.1868
469369.71	3765074.63	1.4861	4.1354	1.0116	1.0603	3.8549	1.0482	1.1254
469298.21	3765076.99	1.4290	5.1139	1.0302	1.0820	4.7298	1.0541	1.1168
469247.45	3765083.34	1.3919	6.1210	1.0453	1.1005	5.5867	1.0618	1.1135
469396.70	3765074.69	1.5058	3.8151	1.0035	1.0508	3.5805	1.0456	1.1278
469734.09	3765159.27	1.8602	2.0675	0.9184	0.9589	1.9793	1.0713	1.2264
469517.84	3765088.43	1.6098	2.8916	0.9720	1.0148	2.7419	1.0451	1.1501
468865.43	3765298.86	1.2020	8.5941	1.4231	1.5107	9.2892	1.2645	1.1720
468847.42	3765319.79	1.1984	7.3936	1.5116	1.5903	7.9616	1.2835	1.1795
468883.44	3765277.94	1.2048	10.3172	1.3599	1.4461	11.2915	1.2439	1.1630
469585.01	3765102.07	1.6712	2.5298	0.9523	0.9939	2.4070	1.0471	1.1651
469423.69	3765074.74	1.5228	3.5848	0.9944	1.0405	3.3745	1.0419	1.1289
469002.72	3766504.34	1.2197	0.8589	3.3823	3.4496	0.8814	2.6524	1.7560
468901.45	3765257.01	1.2057	11.7195	1.3070	1.3943	12.9937	1.2215	1.1519
469450.68	3765074.80	1.5391	3.3308	0.9837	1.0291	3.1432	1.0380	1.1294
469544.83	3765088.49	1.6193	2.7032	0.9569	0.9995	2.5710	1.0383	1.1471
469698.91	3765137.24	1.7899	2.1018	0.9068	0.9550	2.0104	1.0553	1.1984
469334.31	3765067.82	1.4419	4.4917	1.0104	1.0595	4.1871	1.0400	1.1093
469278.98	3765073.29	1.3980	5.3487	1.0227	1.0757	4.9294	1.0461	1.1040
469477.67	3765074.86	1.5534	3.1055	0.9719	1.0161	2.9368	1.0332	1.1289
469668.42	3765123.02	1.7448	2.1775	0.9189	0.9597	2.0789	1.0476	1.1824
469612.00	3765102.12	1.6750	2.3747	0.9344	0.9759	2.2674	1.0381	1.1594
469259.75	3765069.59	1.3793	5.5709	1.0262	1.0782	5.1184	1.0429	1.0964
469724.54	3765143.41	1.8052	2.0200	0.8866	0.9379	1.9341	1.0521	1.1998
469504.66	3765074.91	1.5654	2.8953	0.9597	1.0017	2.7496	1.0277	1.1273
469571.82	3765088.55	1.6263	2.5357	0.9422	0.9833	2.4131	1.0308	1.1431
468846.19	3765300.07	1.1764	7.4137	1.4522	1.5301	7.9777	1.2486	1.1525
469383.52	3765061.17	1.4627	3.8226	0.9874	1.0340	3.5877	1.0264	1.1039
468864.19	3765279.15	1.1784	8.7431	1.3613	1.4417	9.4587	1.2292	1.1442
468993.49	3766488.59	1.1896	0.8581	3.2836	3.3503	0.8809	2.5819	1.7059
469								

469714.99	3765127.56	1.7518	1.9878	0.8688	0.9220	1.9040	1.0333	1.1740
469558.64	3765075.03	1.5830	2.5412	0.9319	0.9724	2.4187	1.0146	1.1215
469491.48	3765061.39	1.5227	2.8973	0.9472	0.9886	2.7520	1.0106	1.1052
468844.95	3765280.36	1.1521	7.6419	1.3620	1.4425	8.1821	1.2137	1.1250
468862.95	3765259.43	1.1551	8.9761	1.3074	1.3863	9.7008	1.1952	1.1170
469518.47	3765061.45	1.5328	2.7174	0.9351	0.9754	2.5828	1.0050	1.1032
469397.32	3765047.70	1.4393	3.5399	0.9641	1.0083	3.3332	1.0053	1.0828
469680.71	3765107.04	1.6895	2.0485	0.8831	0.9295	1.9611	1.0189	1.1482
469311.41	3765047.29	1.3777	4.4751	0.9847	1.0319	4.1688	1.0103	1.0725
469585.63	3765075.08	1.5883	2.3887	0.9171	0.9564	2.2803	1.0070	1.1171
468880.96	3765238.50	1.1561	9.9893	1.2573	1.3368	10.8829	1.1749	1.1071
469424.31	3765047.76	1.4549	3.3167	0.9551	0.9986	3.1310	1.0021	1.0839
469451.31	3765047.82	1.4694	3.0957	0.9457	0.9881	2.9341	0.9983	1.0842
469649.22	3765091.14	1.6411	2.1311	0.8952	0.9349	2.0390	1.0087	1.1307
468898.97	3765217.58	1.1553	11.2039	1.2099	1.2912	12.3261	1.1532	1.0954
469545.46	3765061.51	1.5409	2.5521	0.9215	0.9614	2.4295	0.9986	1.1003
469705.44	3765111.70	1.7003	1.9614	0.8576	0.9096	1.8795	1.0149	1.1490
469293.38	3765043.82	1.3550	4.6364	0.9821	1.0296	4.3087	1.0052	1.0634
469360.71	3765040.66	1.3991	3.8701	0.9641	1.0091	3.6323	0.9984	1.0686
469478.30	3765047.87	1.4816	2.9021	0.9345	0.9760	2.7523	0.9938	1.0835
469612.62	3765075.14	1.5914	2.2490	0.9004	0.9397	2.1490	0.9988	1.1119
469572.45	3765061.56	1.5468	2.4002	0.9076	0.9467	2.2888	0.9917	1.0965
469505.29	3765047.93	1.4919	2.7259	0.9235	0.9630	2.5912	0.9886	1.0819
469275.35	3765040.31	1.3281	4.8096	0.9748	1.0234	4.4575	0.9980	1.0522
468861.71	3765239.71	1.1320	8.8010	1.2552	1.3337	9.4827	1.1523	1.0905
469324.10	3765033.61	1.3578	4.1605	0.9623	1.0076	3.8902	0.9903	1.0531
469411.13	3765034.24	1.4155	3.3017	0.9409	0.9834	3.1179	0.9847	1.0620
469257.32	3765036.88	1.3124	4.9649	0.9783	1.0258	4.5915	0.9952	1.0457
468879.72	3765218.79	1.1321	9.7260	1.2092	1.2884	10.5453	1.1422	1.0801
469532.28	3765047.99	1.5003	2.5592	0.9109	0.9499	2.4408	0.9828	1.0795
468835.60	3765262.16	1.1217	7.1726	1.3210	1.3961	7.6577	1.1768	1.0932
469639.61	3765075.20	1.5925	2.1147	0.8834	0.9218	2.0210	0.9899	1.1059
469695.89	3765095.84	1.6508	1.9386	0.8502	0.8997	1.8606	0.9968	1.1246
469438.12	3765034.30	1.4290	3.1164	0.9322	0.9739	2.9494	0.9811	1.0624
469599.44	3765061.62	1.5507	2.2606	0.8920	0.9311	2.1618	0.9840	1.0919
469305.80	3765030.09	1.3371	4.3000	0.9609	1.0062	4.0124	0.9859	1.0450
469465.11	3765034.35	1.4422	2.8950	0.9220	0.9627	2.7495	0.9773	1.0624
469374.05	3765027.10	1.3777	3.5544	0.9421	0.9852	3.3463	0.9784	1.0489
469559.27	3765048.04	1.5068	2.4083	0.8980	0.9364	2.2999	0.9764	1.0763
469662.52	3765076.84	1.5965	2.0125	0.8681	0.9057	1.9287	0.9839	1.1026
469492.10	3765034.41	1.4526	2.7265	0.9117	0.9506	2.5921	0.9726	1.1012
469287.50	3765026.56	1.3153	4.4553	0.9582	1.0038	4.1389	0.9808	1.0562
469355.51	3765023.53	1.3578	3.7475	0.9416	0.9848	3.5334	0.9747	1.0417
469626.43	3765061.68	1.5526	2.1276	0.8766	0.9139	2.0362	0.9758	1.0865
468889.22	3765195.80	1.1179	10.0815	1.1586	1.2355	10.9193	1.1125	1.0587
469519.10	3765034.47	1.4613	2.5663	0.9005	0.9384	2.4445	0.9672	1.0592
468860.48	3765220.00	1.1091	8.5753	1.2064	1.2814	9.1994	1.1305	1.0645
469336.96	3765019.96	1.3380	3.8809	0.9407	0.9841	3.6410	0.9708	1.0342
469586.26	3765048.10	1.5112	2.2727	0.8847	0.9218	2.1737	0.9694	1.0722
469686.33	3765079.98	1.6033	1.9211	0.8449	0.8897	1.8427	0.9791	1.1009
469424.94	3765020.78	1.3911	3.0975	0.9189	0.9596	2.9321	0.9644	1.0415
469269.19	3765023.04	1.2907	4.5984	0.9522	0.9987	4.2713	0.9743	1.0259
468830.81	3765244.47	1.0979	7.0115	1.2743	1.3459	7.4516	1.1457	1.0673
469451.93	3765020.83	1.4040	2.8934	0.9099	0.9499	2.7451	0.9610	1.0417
469546.09	3765034.52	1.4681	2.4173	0.8880	0.9256	2.3058	0.9613	1.0565
469250.89	3765019.52	1.2745	4.7361	0.9547	1.0001	4.3907	0.9711	1.0191
469387.44	3765013.56	1.3561	3.3000	0.9205	0.9617	3.1162	0.9590	1.0295
469478.92	3765020.89	1.4146	2.7276	0.8897	0.9287	2.5928	0.9667	1.0409
469613.25	3765048.16	1.5138	2.1438	0.8694	0.9065	2.0499	0.9623	1.0674
469299.88	3765012.83	1.2981	4.1312	0.9379	0.9815	3.8616	0.9623	1.0186
468870.11	3765196.79	1.0957	8.8430	1.1545	1.2302	9.4708	1.1017	1.0441
469573.08	3765034.58	1.4732	2.2789	0.8755	0.9121	2.1773	0.9549	1.0530
469505.91	3765020.95	1.4234	2.5744	0.8895	0.9267	2.4525	0.9518	1.0394
469676.78	3765064.13	1.5576	1.9045	0.8390	0.8812	1.8277	0.9617	1.0778
469349.95	3765006.34	1.3181	3.6311	0.9199	0.9615	3.4171	0.9519	1.0157
469281.33	3765009.26	1.2774	4.2605	0.9355	0.9793	3.9748	0.9574	1.0101
469640.24	3765048.21	1.5146	2.0150	0.8535	0.8893	1.9313	0.9535	1.0618
468880.05	3765180.41	1.0898	9.1707	1.1268	1.2000	9.8087	1.0837	1.0321
469532.90	3765021.00	1.4306	2.4283	0.8787	0.9150	2.3174	0.9464	1.0370
469438.75	3765007.31	1.3664	2.9202	0.8975	0.9365	2.7706	0.9447	1.0212
469600.07	3765034.64	1.4764	2.1509	0.8621	0.8980	2.0606	0.9478	1.0487
469331.20	3765002.73	1.2990	3.7420	0.9188	0.9606	3.5157	0.9480	1.0084
469465.74	3765007.37	1.3780	2.7313	0.8879	0.9267	2.5961	0.9411	1.0211
469262.79	3765005.69	1.2536	4.3962	0.9291	0.9739	4.0926	0.9510	1.0000
469559.89	3765021.06	1.4362	2.2913	0.8663	0.9023	2.1923	0.9404	1.0340
469400.89	3765000.03	1.3336	3.1059	0.9390	0.9800	2.9403	0.9398	1.0102
468850.99	3765197.79	1.0742	7.8623	1.1535	1.2263	8.3511	1.0907	1.0294
469312.45	3764999.12	1.2797	3.8546	0.9174	0.9593	3.6154	0.9438	1.0008
469492.73	3765007.43	1.3870	2.5816	0.8785	0.9158	2.4588	0.9366	1.0199
469667.23	3765048.27	1.5136	1.8950	0.8351	0.8701	1.8197	0.9446	1.0554
469627.06	3765034.69	1.4779	2.0270	0.8468	0.8824	1.9457	0.9402	1.0436
468864.72	3765180.81	1.0723	8.3057	1.1187	1.1910	8.8212	1.0748	1.0203
469293.70	3764995.52	1.2604	3.9681	0.9157	0.9577	3.7157	0.9395	0.9930
469519.72	3765007.48	1.3944	2.4375	0.8684	0.9039	2.3296	0.9316	1.0180
469586.88	3765021.12	1.4400	2.1663	0.8541	0.8891	2.0730	0.9339	1.0302
469363.03	3764992.74	1.2981	3.3807	0.8997	0.9396	3.2033	0.9334	0.9974
468878.96	3765162.78	1.0694	8.7315	1.0970	1.1666	9.2491	1.0574	1.0099
469344.11	3764989.10	1.2800	3.5065	0.8990	0.9391	3.3042	0.9298	0.9906
469452.56	3764993.85	1.3426	2.7297	0.8767	0.9141	2.5956	0.9257	1.0017
469274.95	3764991.91	1.2403	4.0832	0.9128	0.9548	3.8169	0.9346	0.9847
469546.71	3765007.54	1.4003	2.3063	0.8577	0.8924	2.2047	0.9261	1.0153
469654.05	3765034.75	1.4778	1.9042	0.8304	0.8654	1.8308	0.9320	1.0379
468816.09	3765212.87	1.0480	6.6208	1.1783	1.2457	6.9781	1.0876	1.0168
469613.88	3765021.17	1.4422	2.0430	0.8408	0.8749	1.9603	0.9268	1.0257
469479.55	3764993.91	1.3518	2.5873	0.8673	0.9045	2.4640	0.9217	1.0009
468846.67	3765182.11	1.0532	7.4752	1.1180	1.1882	7.8902	1.0654	1.0076
469325.18	3764985.45	1.2616	3.6071	0.8978	0.9380	3.3939	0.9260	0.9835
469414.38	3764986.50	1.3107	2.9382	0.8795	0.9172	2.7877	0.9210	0.9911
469256.20	3764988.30	1.2189	4.1994	0.9081	0.9507	3.9186	0.9289	0.9755
469573.70	3765007.60	1.4046	2.1789	0.8455	0.8800	2.0853	0.9201	1.0120
468863.63	3765163.18	1.0526	7.9452	1.0895	1.1584	8.3733	1.0491	0.9988
469506.54	3764993.96	1.3594	2.4492	0.8579	0.8937	2.3369	0.9171	0.9993
469395.29	3764982.83	1.2942	3.0767	0.8799	0.9181	2.8984	0.9182	0.9853
469306.25	3764981.81	1.2429	3.7087	0.8961	0.9365	3.4842	0.9218	0.9760
469376.21	3764979.15	1.2777	3.1805	0.8799	0.9183	3.0096	0.9153	0.9793
469640.87	3765021.23	1.4428	1.9242	0.8250	0.8585	1.8452	0.9193	1.0206
469533.53	3764994.02	1.3656	2.3197	0.8480	0.8820	2.2176	0.9120	0.9971
469600.69	3765007.65	1.4075	2.0584	0.8330	0.8669	1.9728	0.9136	1.0081
469287.32	3764978.17	1.2244	3.8096	0.8943	0.9347	3.5738	0.9375	0.9684
469357.12	3764975.48	1.2608	3.2686	0.8796	0.9181	3.1133	0.9121	0.9731
468873.89	3765144.03	1.0443	8.0341	1.0648	1.1308	8.4096	1.0286	0.9844
469466.37	3764980.39	1.3180	2.5843	0.8566	0.8925	2.4621	0.9070	0.9823
469560.52	3764994.08							

469587.51	3764994.13	1.3737	2.0748	0.8253	0.8584	1.9886	0.9004	0.9907
469520.35	3764980.50	1.3323	2.3229	0.8380	0.8723	2.2233	0.8981	0.9792
468858.56	3765144.43	1.0283	7.3647	1.0578	1.1231	7.6861	1.0207	0.9738
469249.46	3764970.88	1.1859	4.0088	0.8881	0.9286	3.7499	0.9076	0.9520
469389.45	3764965.58	1.2570	3.0004	0.8607	0.8976	2.8512	0.8976	0.9615
469299.85	3764964.46	1.2077	3.5668	0.8756	0.9145	3.3565	0.9005	0.9522
469370.22	3764961.88	1.2412	3.0986	0.8606	0.8976	2.9406	0.8946	0.9557
469547.34	3764980.56	1.3374	2.2023	0.8282	0.8608	2.1087	0.8930	0.9767
469614.50	3764994.19	1.3756	1.9557	0.8129	0.8452	1.8793	0.8939	0.9866
469480.18	3764966.92	1.2934	2.4473	0.8372	0.8717	2.3394	0.8887	0.9633
469280.77	3764960.78	1.1897	3.6558	0.8736	0.9124	3.4359	0.8962	0.9447
469350.99	3764958.18	1.2250	3.1861	0.8602	0.8973	3.0138	0.8914	0.9496
469460.82	3764963.20	1.2802	2.5205	0.8389	0.8736	2.4034	0.8871	0.9590
469574.33	3764980.61	1.3411	2.0816	0.8169	0.8493	1.9988	0.8874	0.9736
468841.94	3765144.21	1.0104	6.7366	1.0487	1.1132	7.0098	1.0110	0.9615
469441.46	3764959.47	1.2660	2.6104	0.8404	0.8753	2.4866	0.8851	0.9543
468867.81	3765122.25	1.0160	7.2667	1.0293	1.0913	7.5126	0.9966	0.9559
469507.17	3764966.98	1.3001	2.3270	0.8280	0.8617	2.2236	0.8844	0.9618
469331.76	3764954.48	1.2083	3.2677	0.8592	0.8964	3.0874	0.8879	0.9431
469422.11	3764955.75	1.2508	2.7496	0.8417	0.8771	2.6014	0.8827	0.9491
469261.68	3764957.11	1.1706	3.7444	0.8698	0.9089	3.5148	0.8912	0.9365
468808.27	3765168.61	0.9987	5.9864	1.0840	1.1473	6.2378	1.0229	0.9628
469534.16	3764967.04	1.3055	2.2053	0.8188	0.8510	2.1140	0.8797	0.9597
469402.75	3764952.02	1.2360	2.8488	0.8421	0.8776	2.7171	0.8802	0.9439
469312.53	3764950.78	1.1911	3.3491	0.8577	0.8950	3.1606	0.8841	0.9362
469601.32	3764980.67	1.3436	1.9664	0.8053	0.8371	1.8898	0.8814	0.9700
469383.40	3764948.30	1.2212	2.9329	0.8421	0.8777	2.7837	0.8775	0.9385
468852.49	3765122.65	1.0008	6.7195	1.0227	1.0842	6.9408	0.9892	0.9459
469293.30	3764947.08	1.1737	3.4294	0.8556	0.8930	3.2327	0.8799	0.9291
469561.15	3764967.09	1.3097	2.0889	0.8087	0.8402	2.0032	0.8745	0.9569
469364.04	3764944.57	1.2059	3.0064	0.8418	0.8776	2.8505	0.8746	0.9328
469493.98	3764953.46	1.2689	2.3266	0.8185	0.8516	2.2276	0.8709	0.9446
469344.68	3764940.84	1.1901	3.0802	0.8411	0.8769	2.9173	0.8713	0.9267
469274.07	3764943.37	1.1565	3.5069	0.8535	0.8909	3.3024	0.8757	0.9219
469588.14	3764967.15	1.3126	1.9752	0.7974	0.8287	1.8960	0.8689	0.9537
469520.97	3764953.52	1.2745	2.2162	0.8094	0.8417	2.1208	0.8665	0.9428
468836.77	3765123.11	0.9852	6.2300	1.0156	1.0765	6.4291	0.9812	0.9355
469325.33	3764937.12	1.1737	3.1540	0.8396	0.8757	2.9840	0.8677	0.9202
468862.75	3765101.48	0.9909	6.6268	0.9976	1.0562	6.7829	0.9681	0.9305
469254.84	3764939.67	1.1379	3.5833	0.8494	0.8873	3.3708	0.8707	0.9138
469547.97	3764953.57	1.2790	2.0980	0.8002	0.8311	2.0148	0.8618	0.9405
469305.97	3764933.39	1.1571	3.2264	0.8377	0.8738	3.0495	0.8638	0.9135
469574.96	3764953.63	1.2822	1.9899	0.7902	0.8204	1.9110	0.8565	0.9376
469507.79	3764940.00	1.2444	2.2222	0.8005	0.8322	2.1308	0.8535	0.9263
468847.42	3765101.88	0.9757	6.1672	0.9911	1.0491	6.3160	0.9605	0.9205
469286.62	3764929.67	1.1406	3.2965	0.8357	0.8719	3.1128	0.8598	0.9066
469470.43	3764932.80	1.2216	2.3628	0.8039	0.8364	2.2589	0.8509	0.9191
469451.74	3764929.21	1.2097	2.4342	0.8057	0.8384	2.3291	0.8492	0.9151
469534.78	3764940.05	1.2494	2.1039	0.7910	0.8221	2.0199	0.8492	0.9244
469267.26	3764925.94	1.1248	3.3628	0.8343	0.8703	3.1729	0.8559	0.8999
469433.06	3764925.61	1.1979	2.4878	0.8065	0.8393	2.3786	0.8475	0.9110
469414.38	3764922.02	1.1846	2.6186	0.8069	0.8399	2.4956	0.8452	0.9063
468831.60	3765103.30	0.9615	5.7696	0.9857	1.0433	5.9123	0.9540	0.9115
469561.77	3764940.11	1.2530	1.9963	0.7819	0.8115	1.9170	0.8444	0.9219
469247.91	3764922.22	1.1074	3.4272	0.8308	0.8672	3.2312	0.8512	0.8923
469395.69	3764918.42	1.1715	2.6776	0.8070	0.8401	2.5496	0.8428	0.9015
468851.99	3765081.80	0.9622	5.9189	0.9664	1.0218	6.0144	0.9393	0.9035
469371.01	3764914.82	1.1582	2.7361	0.8067	0.8399	2.6032	0.8402	0.8965
469521.60	3764926.53	1.2195	2.1451	0.7835	0.8140	2.0563	0.8364	0.9082
469358.33	3764911.23	1.1454	2.7934	0.8065	0.8398	2.6556	0.8377	0.8916
469483.98	3764919.29	1.1998	2.2291	0.7864	0.8175	2.1341	0.8345	0.9021
469339.65	3764907.63	1.1327	2.8493	0.8064	0.8396	2.7067	0.8351	0.8867
469548.59	3764926.59	1.2257	1.9669	0.7724	0.8016	1.8893	0.8325	0.9067
469446.36	3764912.05	1.1775	2.3488	0.7889	0.8205	2.2458	0.8315	0.8946
468836.67	3765082.20	0.9474	5.5512	0.9601	1.0149	5.6484	0.9318	0.8938
469320.96	3764904.04	1.1177	2.9065	0.8046	0.8381	2.7589	0.8316	0.8806
468788.31	3765117.47	0.9326	4.9891	0.9827	1.0403	5.1258	0.9473	0.8963
469408.73	3764904.81	1.1517	2.5436	0.7902	0.8221	2.4263	0.8269	0.8853
469389.92	3764901.19	1.1384	2.5981	0.7898	0.8219	2.4763	0.8242	0.8803
469302.28	3764900.44	1.1027	2.9615	0.8025	0.8360	2.8091	0.8279	0.8744
468820.95	3765082.66	0.9333	5.2203	0.9538	1.0081	5.3170	0.9247	0.8844
468846.93	3765061.03	0.9396	5.4297	0.9381	0.9907	5.4816	0.9137	0.8806
469535.41	3764913.07	1.1970	2.0093	0.7650	0.7950	1.9312	0.8203	0.8912
469371.11	3764897.57	1.1257	2.6513	0.7893	0.8215	2.5251	0.8217	0.8755
469497.55	3764905.78	1.1796	2.0524	0.7680	0.7973	1.9690	0.8190	0.8858
469283.60	3764896.84	1.0889	3.0126	0.8012	0.8347	2.8559	0.8246	0.8686
469352.30	3764893.95	1.1142	2.7025	0.7893	0.8215	2.5722	0.8196	0.8711
469459.69	3764898.50	1.1584	2.1765	0.7714	0.8018	2.0839	0.8163	0.8788
469333.49	3764890.33	1.1035	2.7175	0.7902	0.8221	2.5864	0.8175	0.8668
469440.77	3764894.85	1.1464	2.2693	0.7733	0.8036	2.1713	0.8143	0.8747
469264.91	3764893.25	1.0739	3.0619	0.7987	0.8323	2.9012	0.8207	0.8622
468831.60	3765061.43	0.9250	5.1203	0.9319	0.9839	5.1796	0.9063	0.8711
469421.84	3764891.21	1.1337	2.4141	0.7742	0.8049	2.3112	0.8120	0.8701
469314.68	3764886.71	1.0870	2.8038	0.7867	0.8191	2.6651	0.8133	0.8601
469246.23	3764889.65	1.0594	3.1069	0.7965	0.8302	2.9427	0.8168	0.8558
469402.91	3764887.57	1.1199	2.4703	0.7739	0.8048	2.3585	0.8091	0.8650
469383.98	3764883.92	1.1079	2.5193	0.7736	0.8046	2.4037	0.8068	0.8604
469295.87	3764883.08	1.0738	2.8508	0.7855	0.8179	2.7084	0.8102	0.8546
468815.78	3765062.85	0.9120	4.8513	0.9270	0.9786	4.9164	0.9003	0.8628
469365.05	3764880.28	1.0958	2.5675	0.7730	0.8041	2.4480	0.8043	0.8558
469277.05	3764879.46	1.0604	2.8952	0.7842	0.8165	2.7494	0.8068	0.8489
469346.12	3764876.64	1.0856	2.6127	0.7735	0.8045	2.4898	0.8025	0.8518
469327.19	3764872.99	1.0737	2.6574	0.7732	0.8041	2.5310	0.7999	0.8470
469258.24	3764875.84	1.0457	2.9375	0.7812	0.8139	2.7885	0.8028	0.8424
469308.26	3764869.35	1.0590	2.7030	0.7705	0.8017	2.5731	0.7961	0.8409
469289.33	3764865.71	1.0462	2.7441	0.7693	0.8004	2.6111	0.7930	0.8355
468776.66	3765068.32	0.8845	4.3048	0.9171	0.9681	4.3767	0.8886	0.8454
469270.41	3764862.06	1.0331	2.7824	0.7677	0.7988	2.6468	0.7896	0.8298
469251.48	3764858.42	1.0192	2.8180	0.7649	0.7964	2.6801	0.7858	0.8236

CONCUNIT ug/m^3
DEPUNIT g/m^2

Unmitigated
Diesel Passenger Car Emissions

2022

Annual Average Offsite Total DPM Emission Rate - Segment 1 (grams/sec): 1.22E-08
Annual Average Offsite Total DPM Emission Rate - Segment 2 (grams/sec): 1.66E-08
Annual Average Offsite Total DPM Emission Rate - Segment 3 (grams/sec): 1.72E-08
Annual Average Offsite Total DPM Emission Rate - Segment 4 (grams/sec): 1.86E-08
Annual Average Offsite Total DPM Emission Rate - Segment 5 (grams/sec): 1.66E-08
Annual Average Offsite Total DPM Emission Rate - Segment 12 (grams/sec): 6.50E-07
Annual Average Offsite Total DPM Emission Rate - Segment 13 (grams/sec): 6.56E-07

X	Y	SLINE1	SLINE2	SLINE3	SLINE4	SLINE5	SLINE6	SLINE7	Total
		Annual DPM Exhaust w/Actual Emissions (ug/m3)	Annual DPM Exhaust w/Actual Emissions (ug/m3)	Annual DPM Exhaust w/Actual Emissions (ug/m3)	Annual DPM Exhaust w/Actual Emissions (ug/m3)	Annual DPM Exhaust w/Actual Emissions (ug/m3)	Annual DPM Exhaust w/Actual Emissions (ug/m3)	Annual DPM Exhaust w/Actual Emissions (ug/m3)	DPM (ug/m3)
469644.93	3766144.59	2.28E-07	5.66E-08	1.09E-07	1.08E-07	5.77E-08	9.25E-06	4.11E-05	5.094E-05
469649.83	3766163.48	1.98E-07	5.28E-08	1.04E-07	1.08E-07	5.35E-08	9.53E-06	4.21E-05	5.210E-05
469654.73	3766182.38	1.74E-07	4.95E-08	1.04E-07	1.08E-07	5.03E-08	9.74E-06	4.23E-05	5.257E-05
469659.63	3766201.27	1.54E-07	4.67E-08	1.04E-07	1.07E-07	4.74E-08	9.89E-06	4.20E-05	5.233E-05
469664.53	3766220.16	1.37E-07	4.38E-08	1.04E-07	1.06E-07	4.46E-08	9.95E-06	4.08E-05	5.118E-05
469669.43	3766239.06	1.23E-07	4.15E-08	1.04E-07	1.06E-07	4.22E-08	9.94E-06	3.89E-05	4.927E-05
469674.33	3766257.95	1.11E-07	3.93E-08	1.03E-07	1.05E-07	3.98E-08	9.85E-06	3.62E-05	4.643E-05
469555.60	3766418.50	5.15E-08	2.59E-08	1.87E-07	1.82E-07	2.66E-08	1.40E-05	1.15E-05	2.603E-05
469663.59	3766139.75	2.46E-07	6.22E-08	1.05E-07	1.10E-07	6.34E-08	8.15E-06	3.18E-05	4.055E-05
469679.23	3766276.84	1.01E-07	3.73E-08	1.03E-07	1.05E-07	3.76E-08	9.67E-06	3.26E-05	4.261E-05
469668.49	3766158.64	2.13E-07	5.87E-08	1.06E-07	1.11E-07	6.00E-08	8.37E-06	3.26E-05	4.147E-05
469673.39	3766177.53	1.86E-07	5.55E-08	1.06E-07	1.11E-07	5.67E-08	8.55E-06	3.28E-05	4.188E-05
469574.86	3766418.61	5.24E-08	2.59E-08	1.73E-07	1.69E-07	2.65E-08	1.28E-05	1.18E-05	2.501E-05
469678.30	3766196.43	1.64E-07	5.23E-08	1.07E-07	1.11E-07	5.36E-08	8.68E-06	3.26E-05	4.175E-05
469684.13	3766295.74	9.20E-08	3.55E-08	1.02E-07	1.04E-07	3.58E-08	9.44E-06	2.86E-05	3.842E-05
469683.20	3766215.32	1.46E-07	4.93E-08	1.07E-07	1.11E-07	5.05E-08	8.76E-06	3.19E-05	4.111E-05
469594.13	3766418.72	5.33E-08	2.58E-08	1.61E-07	1.58E-07	2.65E-08	1.17E-05	1.18E-05	2.390E-05
469688.10	3766234.21	1.31E-07	4.64E-08	1.07E-07	1.10E-07	4.76E-08	8.78E-06	3.07E-05	3.993E-05
469693.00	3766253.11	1.18E-07	4.37E-08	1.07E-07	1.10E-07	4.49E-08	8.75E-06	2.90E-05	3.820E-05
469689.03	3766314.63	8.40E-08	3.37E-08	1.02E-07	1.03E-07	3.42E-08	9.11E-06	2.43E-05	3.377E-05
469682.26	3766134.90	2.64E-07	6.19E-08	9.74E-08	1.03E-07	6.30E-08	7.25E-06	2.54E-05	3.324E-05
469613.39	3766418.84	5.41E-08	2.59E-08	1.50E-07	1.48E-07	2.66E-08	1.06E-05	1.17E-05	2.275E-05
469687.16	3766153.80	2.26E-07	5.88E-08	9.83E-08	1.04E-07	5.99E-08	7.44E-06	2.60E-05	3.400E-05
469697.90	3766272.00	1.07E-07	4.12E-08	1.07E-07	1.09E-07	4.23E-08	7.55E-06	2.69E-05	3.592E-05
469692.06	3766172.69	1.97E-07	5.57E-08	9.91E-08	1.04E-07	5.69E-08	7.69E-06	2.63E-05	3.437E-05
469696.96	3766191.58	1.73E-07	5.27E-08	9.97E-08	1.04E-07	5.39E-08	7.71E-06	2.62E-05	3.436E-05
469701.86	3766210.48	1.53E-07	4.97E-08	1.00E-07	1.04E-07	5.09E-08	7.80E-06	2.57E-05	3.399E-05
469693.93	3766333.52	7.74E-08	3.21E-08	1.01E-07	1.02E-07	3.25E-08	8.76E-06	2.04E-05	2.954E-05
469702.80	3766290.90	9.70E-08	3.89E-08	1.07E-07	1.09E-07	4.00E-08	8.48E-06	2.43E-05	3.317E-05
469632.66	3766418.95	5.48E-08	2.59E-08	1.40E-07	1.39E-07	2.67E-08	9.72E-06	1.15E-05	2.158E-05
469536.22	3766437.67	4.74E-08	2.47E-08	2.04E-07	1.98E-07	2.53E-08	1.29E-05	9.51E-06	2.291E-05
469706.77	3766229.37	1.36E-07	4.69E-08	1.00E-07	1.04E-07	4.81E-08	7.83E-06	2.49E-05	3.322E-05
469555.48	3766437.78	4.83E-08	2.46E-08	1.87E-07	1.83E-07	2.52E-08	1.21E-05	9.77E-06	2.229E-05
469711.67	3766248.27	1.22E-07	4.42E-08	1.01E-07	1.04E-07	4.54E-08	7.82E-06	2.38E-05	3.205E-05
469262.80	3766137.49	5.54E-08	8.82E-08	1.37E-06	1.77E-06	9.11E-08	1.97E-05	6.43E-06	2.955E-05
469259.80	3766119.29	5.63E-08	9.82E-08	1.42E-06	1.79E-06	1.02E-07	1.82E-05	6.29E-06	2.796E-05
469265.80	3766155.70	5.44E-08	8.01E-08	1.34E-06	1.75E-06	8.23E-08	2.10E-05	6.54E-06	3.084E-05
469705.83	3766148.96	2.40E-07	5.87E-08	9.74E-08	9.74E-08	5.98E-08	6.66E-06	2.12E-05	2.845E-05
469707.70	3766309.79	8.87E-08	3.67E-08	1.06E-07	1.08E-07	3.78E-08	8.27E-06	2.15E-05	3.010E-05
469574.75	3766437.90	4.92E-08	2.45E-08	1.73E-07	1.70E-07	2.52E-08	1.12E-05	9.92E-06	2.156E-05
469268.79	3766173.91	5.30E-08	7.37E-08	1.33E-06	2.15E-06	7.62E-08	2.17E-05	6.60E-06	3.203E-05
469710.73	3766167.85	2.07E-07	5.59E-08	9.26E-08	9.79E-08	5.70E-08	6.79E-06	2.15E-05	2.879E-05
469271.79	3766192.11	5.18E-08	6.79E-08	1.32E-06	2.09E-06	7.01E-08	2.23E-05	6.64E-06	3.253E-05
469698.83	3766352.42	7.13E-08	3.08E-08	1.00E-07	1.01E-07	3.11E-08	8.34E-06	1.70E-05	2.572E-05
469716.57	3766267.16	1.10E-07	4.18E-08	1.01E-07	1.03E-07	4.29E-08	7.76E-06	2.23E-05	3.050E-05
469715.63	3766186.74	1.81E-07	5.30E-08	9.33E-08	9.82E-08	5.42E-08	6.90E-06	2.15E-05	2.885E-05
469651.92	3766419.06	5.54E-08	2.60E-08	1.32E-07	1.31E-07	2.68E-08	9.09E-06	1.11E-05	2.059E-05
469274.79	3766210.32	5.05E-08	6.28E-08	1.32E-06	2.03E-06	6.48E-08	2.25E-05	6.64E-06	3.270E-05
469594.01	3766438.01	5.00E-08	2.45E-08	1.61E-07	1.58E-07	2.51E-08	1.04E-05	9.94E-06	2.074E-05
469720.53	3766205.64	1.59E-07	5.01E-08	9.39E-08	9.83E-08	5.13E-08	6.98E-06	2.12E-05	2.866E-05
469712.60	3766328.68	8.14E-08	3.47E-08	1.06E-07	1.08E-07	3.57E-08	8.00E-06	1.86E-05	2.699E-05
469277.78	3766228.52	4.91E-08	5.85E-08	1.33E-06	2.48E-06	6.02E-08	2.24E-05	6.62E-06	3.301E-05
469721.47	3766286.05	1.00E-07	3.95E-08	1.01E-07	1.03E-07	4.05E-08	7.64E-06	2.06E-05	2.862E-05
469725.43	3766224.53	1.41E-07	4.73E-08	9.43E-08	9.83E-08	4.84E-08	7.03E-06	2.07E-05	2.817E-05
469280.78	3766246.73	4.78E-08	5.43E-08	1.32E-06	2.03E-06	5.57E-08	2.22E-05	6.57E-06	3.227E-05
469613.28	3766438.12	5.07E-08	2.45E-08	1.50E-07	1.48E-07	2.52E-08	9.60E-06	9.87E-06	1.987E-05
469724.50	3766144.11	2.52E-07	5.83E-08	8.56E-08	9.14E-08	5.93E-08	6.00E-06	1.77E-05	2.422E-05
469730.33	3766243.42	1.26E-07	4.47E-08	9.46E-08	9.82E-08	4.58E-08	7.03E-06	1.99E-05	2.739E-05
469283.77	3766264.93	4.65E-08	5.02E-08	1.32E-06	2.03E-06	5.15E-08	2.18E-05	6.50E-06	3.177E-05
469240.77	3766122.42	5.29E-08	9.19E-08	8.37E-07	1.31E-06	9.54E-08	1.54E-05	5.72E-06	2.349E-05
469729.40	3766163.01	2.17E-07	5.58E-08	8.66E-08	9.21E-08	5.69E-08	6.11E-06	1.79E-05	2.453E-05
469726.37	3766304.95	9.12E-08	3.73E-08	1.00E-07	1.03E-07	3.83E-08	7.48E-06	1.86E-05	2.648E-05
469243.77	3766140.63	5.20E-08	8.34E-08	8.30E-07	1.29E-06	8.64E-08	1.64E-05	5.83E-06	2.460E-05
469234.99	3766087.20	5.40E-08	1.15E-07	8.60E-07	1.37E-06	1.20E-07	1.31E-05	5.44E-06	2.107E-05
469246.77	3766158.83	5.12E-08	7.55E-08	8.18E-07	1.25E-06	7.82E-08	1.74E-05	5.92E-06	2.556E-05
469703.74	3766371.31	6.60E-08	2.95E-08	9.92E-08	9.99E-08	2.98E-08	7.89E-06	1.43E-05	2.249E-05
469734.30	3766181.90	1.89E-07	5.31E-08	8.74E-08	9.25E-08	5.41E-08	6.46E-06	1.80E-05	2.490E-05
469231.82	3766069.35	5.44E-08	1.31E-07	8.67E-07	1.40E-06	1.36E-07	1.20E-05	5.27E-06	1.981E-05
469249.76	3766177.04	5.03E-08	6.82E-08	8.06E-07	1.20E-06	7.02E-08	1.81E-05	5.99E-06	2.628E-05
469717.50	3766347.58	7.50E-08	3.28E-08	1.05E-07	1.07E-07	3.37E-08	7.68E-06	1.60E-05	2.404E-05
469735.23	3766262.32	1.14E-07	4.23E-08	9.48E-08	9.80E-08	4.33E-08	7.00E-06	1.89E-05	2.632E-05
469228.65	3766051.50	5.46E-08	1.50E-07	8.73E-07	1.45E-06	1.57E-07	1.09E-05	5.09E-06	1.863E-05
469286.77	3766283.14	4.52E-08	4.68E-08	1.34E-06	2.05E-06	4.82E-08	2.10E-05	6.39E-06	3.092E-05
469671.19	3766419.18	5.55E-08	2.62E-08	1.24E-07	1.24E-07	2.69E-08	8.55E-06	1.07E-05	1.963E-05
469									

469224.74	3766143.76	4.88E-08	7.98E-08	6.02E-07	8.19E-07	8.25E-08	1.38E-05	5.29E-06	2.074E-05
469216.00	3766090.58	5.05E-08	1.09E-07	6.11E-07	8.53E-07	1.13E-07	1.14E-05	4.96E-06	1.811E-05
469209.64	3765944.40	5.29E-08	4.70E-07	7.67E-07	1.68E-06	5.22E-07	6.15E-06	3.96E-06	1.360E-05
469227.74	3766161.96	4.81E-08	7.17E-08	5.99E-07	8.03E-07	7.44E-08	1.45E-05	5.37E-06	2.143E-05
469212.83	3766072.73	5.08E-08	1.22E-07	6.12E-07	8.66E-07	1.28E-07	1.05E-05	4.82E-06	1.713E-05
469749.94	3766319.00	8.52E-08	3.59E-08	9.50E-08	9.72E-08	3.69E-08	7.49E-06	1.49E-05	2.275E-05
469758.80	3766276.37	1.05E-07	4.05E-08	8.98E-08	9.28E-08	4.15E-08	6.99E-06	1.55E-05	2.287E-05
469230.73	3766180.17	4.72E-08	6.53E-08	5.96E-07	7.90E-07	6.76E-07	1.50E-05	5.42E-06	2.185E-05
469209.66	3766054.88	5.09E-08	1.40E-07	6.13E-07	8.83E-07	1.47E-07	9.68E-06	4.67E-06	1.619E-05
469763.77	3766214.85	1.51E-07	4.78E-08	8.35E-08	8.79E-08	4.88E-08	6.13E-06	1.50E-05	2.153E-05
469206.57	3765924.94	5.22E-08	5.90E-07	6.43E-07	1.70E-06	7.10E-07	5.61E-06	3.78E-06	1.308E-05
469741.07	3766361.63	7.04E-08	3.16E-08	9.98E-08	1.01E-07	3.26E-08	7.96E-06	1.33E-05	2.157E-05
469267.74	3766286.27	4.31E-08	4.42E-08	8.21E-07	1.17E-06	4.54E-08	1.75E-05	5.80E-06	2.544E-05
469768.61	3766314.16	8.70E-08	3.64E-08	9.01E-08	9.26E-08	3.74E-08	7.34E-06	1.56E-05	2.332E-05
469233.73	3766198.37	4.62E-08	6.22E-08	6.00E-07	7.91E-07	6.40E-08	1.53E-05	5.45E-06	2.235E-05
469206.49	3766037.03	5.10E-08	1.60E-07	6.11E-07	9.01E-07	1.69E-07	8.89E-06	4.51E-06	1.529E-05
469613.17	3766457.41	4.76E-08	2.33E-08	1.50E-07	1.48E-07	2.39E-08	8.63E-06	8.47E-06	1.749E-05
469203.32	3766019.18	5.10E-08	1.84E-07	6.05E-07	9.14E-07	1.95E-07	8.16E-06	4.36E-06	1.447E-05
469767.67	3766233.74	1.34E-07	4.53E-08	8.41E-08	8.80E-08	4.63E-08	6.27E-06	1.47E-05	2.136E-05
469761.83	3766134.43	2.74E-07	5.73E-08	7.50E-08	8.09E-08	5.81E-08	4.95E-06	1.28E-05	1.828E-05
469236.73	3766216.58	4.51E-08	5.87E-08	6.04E-07	7.90E-07	6.06E-08	1.55E-05	5.44E-06	2.247E-05
469771.64	3766172.22	2.02E-07	5.27E-08	7.71E-08	8.23E-08	5.36E-08	5.39E-06	1.35E-05	1.940E-05
469763.70	3766295.26	9.55E-08	3.84E-08	9.00E-08	9.27E-08	3.94E-08	7.08E-06	1.45E-05	2.197E-05
469759.74	3766356.79	7.17E-08	3.23E-08	9.49E-08	9.67E-08	3.32E-08	7.78E-06	1.39E-05	2.203E-05
469765.73	3766153.32	2.35E-07	5.50E-08	7.61E-08	8.16E-08	5.58E-08	5.17E-06	1.30E-05	1.688E-05
469200.15	3766001.33	5.08E-08	2.15E-07	5.96E-07	9.24E-07	7.29E-07	7.49E-06	4.19E-06	1.370E-05
469201.07	3765889.87	5.05E-08	7.98E-07	4.08E-07	1.31E-06	1.32E-06	4.79E-06	3.45E-06	1.213E-05
469686.41	3766431.02	5.35E-08	2.54E-08	1.19E-07	1.19E-07	2.62E-08	7.84E-06	9.45E-06	1.764E-05
469239.72	3766234.79	4.40E-08	5.46E-08	6.06E-07	7.86E-07	5.63E-08	1.55E-05	5.43E-06	2.247E-05
469772.57	3766252.63	1.20E-07	4.30E-08	8.45E-08	8.81E-08	4.40E-08	6.39E-06	1.43E-05	2.107E-05
469776.54	3766191.11	1.76E-07	5.03E-08	7.80E-08	8.28E-08	5.12E-08	5.57E-06	1.35E-05	1.952E-05
469773.51	3766333.05	7.96E-08	3.46E-08	9.02E-08	9.26E-08	3.56E-08	7.32E-06	1.45E-05	2.211E-05
469782.37	3766290.42	9.76E-08	3.89E-08	8.52E-08	8.82E-08	3.98E-08	6.71E-06	1.50E-05	2.205E-05
469196.98	3765983.48	5.05E-08	2.52E-07	5.77E-07	9.29E-07	2.70E-07	6.88E-06	4.03E-06	1.299E-05
469632.43	3766457.52	4.78E-08	2.32E-08	1.41E-07	1.39E-07	2.39E-08	8.21E-06	8.34E-06	1.693E-05
469781.44	3766210.00	1.55E-07	4.79E-08	7.87E-08	8.32E-08	4.88E-08	5.69E-06	1.36E-05	1.967E-05
469242.72	3766252.99	4.31E-08	4.93E-08	6.04E-07	7.79E-07	5.08E-08	1.54E-05	5.40E-06	2.232E-05
469777.47	3766271.53	1.08E-07	4.09E-08	8.49E-08	8.82E-08	4.19E-08	6.52E-06	1.40E-05	2.089E-05
469273.30	3766319.19	4.09E-08	3.90E-08	7.60E-07	1.13E-06	4.01E-08	1.61E-05	5.56E-06	2.364E-05
469787.27	3766309.31	8.88E-08	3.70E-08	8.55E-08	8.83E-08	3.79E-08	6.76E-06	1.42E-05	2.133E-05
469723.85	3766402.05	5.98E-08	2.71E-08	9.45E-08	9.36E-08	2.75E-08	6.85E-06	1.07E-05	1.785E-05
469743.52	3766397.21	6.10E-08	2.85E-08	1.01E-07	1.02E-07	2.94E-08	7.95E-06	1.13E-05	1.951E-05
469535.99	3766476.24	4.22E-08	2.25E-08	2.03E-07	1.98E-07	2.30E-08	9.42E-06	7.22E-06	1.713E-05
469195.58	3765854.80	4.85E-08	9.13E-07	2.67E-07	5.61E-07	1.72E-06	4.13E-06	3.16E-06	1.080E-05
469786.34	3766228.90	1.37E-07	4.55E-08	7.94E-08	8.35E-08	4.65E-08	5.82E-06	1.34E-05	1.960E-05
469190.65	3765947.78	4.95E-08	3.51E-07	5.09E-07	9.28E-07	3.97E-07	5.83E-06	3.72E-06	1.178E-05
469202.71	3766128.69	4.64E-08	8.38E-08	4.75E-07	6.11E-07	8.74E-08	1.12E-05	4.74E-06	1.726E-05
469197.01	3766093.95	4.73E-08	1.02E-07	4.73E-07	6.22E-07	1.07E-07	1.00E-05	4.55E-06	1.590E-05
469555.26	3766476.36	4.29E-08	2.24E-08	1.87E-07	1.83E-07	2.29E-08	9.03E-06	7.35E-06	1.684E-05
469791.24	3766247.79	1.23E-07	4.33E-08	7.99E-08	8.37E-08	4.43E-08	5.96E-06	1.38E-05	2.018E-05
469205.71	3766146.89	4.58E-08	7.63E-08	4.75E-07	6.07E-07	7.94E-08	1.18E-05	4.82E-06	1.788E-05
469796.14	3766266.68	1.10E-07	4.13E-08	8.04E-08	8.39E-08	4.22E-08	6.08E-06	1.39E-05	2.035E-05
469778.41	3766351.94	7.31E-08	3.29E-08	9.03E-08	9.25E-08	3.39E-08	7.27E-06	1.32E-05	2.079E-05
469245.72	3766271.20	4.21E-08	4.49E-08	5.52E-07	7.22E-07	4.62E-08	1.51E-05	5.34E-06	2.180E-05
469193.84	3766076.10	4.75E-08	1.14E-07	4.71E-07	6.27E-07	1.19E-07	9.33E-06	4.43E-06	1.514E-05
469785.40	3766148.48	2.42E-07	5.47E-08	7.15E-08	7.70E-08	5.54E-08	4.77E-06	1.15E-05	1.676E-05
469795.20	3766186.27	1.81E-07	5.02E-08	7.35E-08	7.83E-08	5.10E-08	5.00E-06	1.24E-05	1.785E-05
469208.71	3766105.10	4.52E-08	6.86E-08	4.54E-07	6.02E-07	7.13E-08	1.22E-05	4.88E-06	1.837E-05
469196.67	3766058.25	4.77E-08	1.28E-07	4.68E-07	6.32E-07	1.34E-07	8.68E-06	4.31E-06	1.439E-05
469187.51	3765927.92	4.89E-08	4.15E-07	4.47E-07	9.04E-07	4.95E-07	5.34E-06	3.55E-06	1.120E-05
469800.10	3766205.16	1.59E-07	4.80E-08	7.43E-08	7.89E-08	4.89E-08	5.17E-06	1.26E-05	1.819E-05
469790.30	3766167.37	2.09E-07	5.24E-08	7.25E-08	7.77E-08	5.32E-08	4.89E-06	1.18E-05	1.714E-05
469574.52	3766476.47	4.36E-08	2.22E-08	1.73E-07	1.69E-07	2.27E-08	8.61E-06	7.42E-06	1.645E-05
469211.70	3766183.30	4.44E-08	6.28E-08	4.44E-07	5.89E-07	6.49E-08	1.26E-05	4.92E-06	1.875E-05
469651.70	3766457.63	4.82E-08	2.33E-08	1.32E-07	1.31E-07	2.40E-08	7.84E-06	1.87E-06	1.636E-05
469187.50	3766040.40	4.78E-08	1.44E-07	4.63E-07	6.37E-07	1.52E-07	8.05E-06	4.17E-06	1.367E-05
469792.17	3766328.21	8.11E-08	3.52E-08	8.57E-08	8.84E-08	3.62E-08	6.78E-06	1.34E-05	2.048E-05
469801.04	3766285.58	9.96E-08	3.93E-08	8.08E-08	8.40E-08	4.02E-08	6.16E-06	1.35E-05	1.998E-05
469214.70	3766201.51	4.36E-08	5.85E-08	4.48E-07	5.90E-07	6.06E-08	1.29E-05	4.95E-06	1.905E-05
469184.33	3766022.55	4.77E-08	1.64E-07	4.56E-07	6.42E-07	1.73E-07	7.45E-06	4.04E-06	1.298E-05
469761.19	3766392.37	6.19E-08	2.92E-08	9.63E-08	9.78E-08	3.00E-08	7.60E-06	1.13E-05	1.917E-05
469248.71	3766289.40	4.10E-08	4.17E-08	5.47E-07	7.09E-07	4.31E-08	1.46E-05	5.25E-06	2.125E-05
469190.09	3765819.74	4.64E-08	1.00E-06	1.90E-07	3.18E-07	2.06E-06	3.60E-06	2.88E-06	1.010E-05
469789.37	3766086.96	4.27E-07	6.08E-08	6.35E-08	6.97E-08	6.12E-08	3.94E-06	9.32E-06	1.735E-05
469564.78	3766476.58	4.42E-08	1.42E-08	1.61E-07	1.58E-07	2.27E-08	7.43E-06	4.96E-06	1.525E-05
469217.70	3766219.71	4.75E-08	5.51E-08	4.73E-07	5.92E-07	5.60E-08	1.31E-05	4.96E-06	1.925E-05
469181.16	3766004.70	4.75E-08	1.87E-07	4.45E-07	6.44E-07	1.99E-07	6.90E-06	3.90E-06	1.323E-05
469182.02	3765892.85	4.75E-08	5.24E-07	3.30E-07	7.26E-07	7.21E-07	4.60E-06	3.27E-06	1.022E-05
469794.27	3766105.85	3.52E-07	5.87E-08	6.48E-08	7.08E-08	5.92E-08	3.99E-06	9.52E-06	1.411E-05
469805.94	3766304.47	9.04E-08	3.74E-08	8.11E-08	8.42E-08	3.84E-08	6.22E-06	1.29E-05	1.950E-05
469804.07	3766143.64	2.48E-07	5.44E-08	6.72E-08	7.27E-08	5.50E-08	4.25E-06	1.03E-05	1.501E-05
469178.00	3765986.85	4.73E-08	2.13E-07	4.30E-07	6.44E-07	2.31E-07	6.39E-06	3.76E-06	1.172E-05
469799.17	3766124.74	2.93E-07	5.66E-08	6.61E-08	7.18E-08	5.71E-08	4.09E-06	9.85E-06	1.449E-05
469808.97	3766162.53	2.14E-07	5.22E-08	6.83E-08	7.35E-08	5.29E-08	4.41E-06	1.06E-05	1.548E-05
469797.07	3766347.10	7.42E-08	3.35E-08	8.59E-08	8.84E-08	3.45E-08	6.77E-06	1.24E-05	1.950E-05
469220.69	3766237.92	4.18E-08	5.12E-08	4.60E-07	5.91E-07	5.29E-08	1.31E-05	4.94E-06	1.923E-05
469278.79	3766351.72	3.87E-08	3.50E-08	7.45E-07	1.04E-06	3.58E-08	1.43E-05	5.27E-06	2.148E-05
469670.96	3766457.75	4.85E-08	2.34E-08	1.25E-07	1.24E-07	2.41E-08	7.61E-06	7.92E-06	1.588E-05
469813.87	3766181.42	1.85E-07	5.01E-08	6.93E-08	7.42E-08	5.08E-08	4.58E-06	1.09E-05	1.591E-05
469174.83	3765969.00	4.69E-08	2.44E-07	4.09E-07	6.39				

469192.67	3766186.43	4.19E-08	5.80E-08	3.60E-07	4.43E-07	6.08E-08	1.08E-05	4.49E-06	1.626E-05
469798.53	3766382.68	6.38E-08	3.04E-08	8.74E-08	8.96E-08	3.13E-08	6.78E-06	1.07E-05	1.781E-05
469827.64	3766157.69	2.17E-07	5.19E-08	6.44E-08	6.96E-08	5.25E-08	4.05E-06	9.35E-06	1.385E-05
469165.34	3766025.92	4.48E-08	1.44E-07	3.68E-07	4.91E-07	1.54E-07	6.80E-06	3.75E-06	1.176E-05
469171.04	3765822.72	4.39E-08	6.59E-07	1.79E-07	2.92E-07	1.02E-06	3.50E-06	2.76E-06	8.457E-06
469833.48	3766257.00	1.14E-07	4.20E-08	7.23E-08	7.62E-08	4.28E-08	5.15E-06	1.12E-05	1.673E-05
4698932.54	3766176.58	1.88E-07	5.00E-08	6.54E-08	7.04E-08	5.06E-08	4.20E-06	9.64E-06	1.426E-05
469535.88	3766495.53	3.99E-08	2.17E-08	2.04E-07	1.98E-07	2.22E-07	8.20E-06	6.40E-06	1.508E-05
469195.67	3766204.64	4.13E-08	5.11E-08	3.55E-07	4.31E-07	5.30E-08	1.10E-05	1.10E-05	1.644E-05
469754.29	3766425.74	5.47E-08	2.64E-08	9.89E-08	9.98E-08	2.72E-08	7.23E-06	9.02E-06	1.656E-05
469162.18	3766008.07	4.46E-08	1.61E-07	3.58E-07	4.90E-07	1.74E-07	6.35E-06	3.63E-06	1.121E-05
469229.68	3766292.53	3.89E-08	3.83E-08	4.29E-07	5.25E-07	3.93E-08	1.24E-05	4.78E-06	1.826E-05
469162.97	3765895.84	4.47E-08	3.85E-07	2.74E-07	5.01E-07	4.90E-07	4.40E-06	3.09E-06	9.186E-06
469555.14	3766495.64	4.05E-08	2.14E-08	1.87E-07	1.82E-07	2.19E-08	7.91E-06	6.49E-06	1.485E-05
469651.58	3766476.92	4.52E-08	2.21E-08	1.32E-07	1.31E-07	2.27E-08	7.42E-06	7.03E-06	1.480E-05
469837.44	3766195.48	1.64E-07	4.79E-08	6.63E-08	7.10E-08	4.86E-08	4.35E-06	9.86E-06	1.461E-05
469159.01	3765990.22	4.44E-08	1.81E-07	3.46E-07	4.85E-07	1.97E-07	5.92E-06	3.51E-06	1.069E-05
469198.67	3766222.84	4.04E-08	4.76E-08	3.54E-07	4.28E-07	4.93E-08	1.11E-05	4.51E-06	1.655E-05
469281.26	3766380.30	3.66E-08	3.23E-08	7.19E-07	9.92E-07	3.31E-08	1.25E-05	4.94E-06	1.923E-05
469735.62	3766430.59	5.41E-08	2.55E-08	1.01E-07	9.93E-08	2.59E-08	6.11E-06	8.53E-06	1.495E-05
469816.90	3766039.49	7.36E-07	6.31E-08	5.29E-08	5.91E-08	6.30E-08	2.95E-06	6.16E-06	1.008E-05
469812.00	3766020.59	1.02E-06	6.49E-08	5.13E-08	5.76E-08	6.46E-08	2.83E-06	5.81E-06	9.986E-06
469842.34	3766214.37	1.45E-07	4.60E-08	6.72E-08	7.17E-08	4.67E-08	4.49E-06	1.00E-05	1.490E-05
469820.64	3766361.15	6.94E-08	3.24E-08	8.17E-08	8.43E-08	6.33E-08	6.23E-06	1.08E-05	1.729E-05
469821.80	3766058.38	5.62E-07	6.14E-08	5.44E-08	6.05E-08	6.14E-08	5.05E-06	3.05E-06	1.035E-05
469772.96	3766420.90	5.55E-08	2.70E-08	9.44E-08	9.57E-08	2.78E-08	7.00E-06	9.09E-06	1.638E-05
469807.10	3766001.70	1.53E-06	6.68E-08	4.96E-08	5.59E-08	6.64E-08	2.71E-06	5.43E-06	9.905E-06
469574.41	3766495.75	4.11E-08	2.12E-08	1.72E-07	1.69E-07	2.16E-08	7.60E-06	6.54E-06	1.456E-05
469167.12	3765794.54	4.24E-08	7.09E-07	1.47E-07	2.21E-07	1.12E-06	3.17E-06	2.58E-06	7.992E-06
469826.70	3766077.27	4.45E-07	5.94E-08	5.58E-08	6.18E-08	5.96E-08	3.18E-06	6.89E-06	1.075E-05
469155.84	3765972.37	4.41E-08	2.03E-07	3.28E-07	4.78E-07	2.25E-07	5.53E-06	3.39E-06	1.019E-05
469802.20	3765982.80	2.64E-06	6.86E-08	4.77E-08	5.40E-08	6.80E-08	2.58E-06	5.07E-06	1.053E-05
469259.77	3766354.93	3.70E-08	3.23E-08	5.41E-07	6.87E-07	3.33E-08	1.23E-05	4.82E-06	1.841E-05
469201.66	3766241.05	3.96E-08	4.46E-08	3.55E-07	4.27E-07	4.61E-08	1.11E-05	4.50E-06	1.656E-05
469831.60	3766096.17	3.62E-07	5.74E-08	5.72E-08	6.30E-08	5.76E-08	3.32E-06	7.27E-06	1.119E-05
469847.24	3766233.26	1.29E-07	4.40E-08	6.79E-08	7.22E-08	4.48E-08	4.62E-06	1.01E-05	1.510E-05
469836.51	3766115.06	3.01E-07	5.54E-08	5.85E-08	6.41E-08	5.57E-08	3.45E-06	7.64E-06	1.163E-05
469843.28	3766294.79	9.32E-08	3.83E-08	7.33E-08	7.68E-08	3.92E-08	5.33E-06	1.08E-05	1.647E-05
469816.70	3766380.22	6.42E-08	3.07E-08	8.35E-08	8.58E-08	3.16E-08	6.36E-06	1.02E-05	1.686E-05
469157.47	3765860.77	4.32E-08	4.41E-07	2.13E-07	3.66E-07	5.89E-07	3.86E-06	2.85E-06	8.362E-06
469165.88	3765774.82	4.10E-07	7.71E-07	1.30E-07	1.88E-07	1.25E-06	2.97E-06	2.47E-06	7.826E-06
469841.41	3766133.95	2.55E-07	5.34E-08	5.97E-08	6.30E-08	5.39E-08	3.59E-06	3.59E-06	9.05E-06
469593.67	3766495.87	4.17E-08	2.10E-08	1.60E-07	1.58E-07	2.15E-08	7.28E-06	6.54E-06	1.422E-05
469686.18	3766469.59	4.69E-08	2.29E-08	1.20E-07	1.19E-07	2.35E-08	6.79E-06	7.17E-06	1.429E-05
469204.66	3766259.26	3.88E-08	4.18E-08	3.54E-07	4.25E-07	4.32E-08	1.11E-05	4.48E-06	1.464E-05
469846.31	3766152.85	2.18E-07	5.15E-08	6.08E-08	6.59E-08	5.21E-08	3.73E-06	8.29E-06	1.246E-05
469791.63	3766416.06	5.62E-08	2.76E-08	9.01E-08	9.18E-08	2.84E-08	6.69E-06	9.07E-06	1.606E-05
469852.14	3766252.16	1.15E-07	4.21E-08	6.86E-08	7.26E-08	4.29E-08	4.74E-06	1.01E-05	1.521E-05
469159.03	3766100.69	4.18E-08	8.67E-08	3.09E-07	4.03E-07	9.18E-08	7.83E-06	3.86E-06	1.262E-05
469851.21	3766171.74	1.90E-07	4.99E-08	6.18E-08	6.68E-08	5.05E-08	3.86E-06	8.57E-06	1.285E-05
469164.66	3766134.95	4.11E-08	7.38E-08	3.11E-07	3.97E-07	7.76E-08	8.55E-06	3.99E-06	1.344E-05
469149.41	3765933.89	4.32E-08	2.52E-07	2.85E-07	4.43E-07	2.93E-07	4.77E-06	3.14E-06	9.227E-06
469155.86	3766082.84	4.20E-08	9.45E-08	3.05E-07	4.03E-07	1.00E-07	7.42E-06	3.77E-06	1.214E-05
469235.26	3766325.61	3.71E-08	3.41E-08	4.26E-07	5.19E-07	3.51E-08	1.16E-05	4.62E-06	1.729E-05
469848.18	3766313.68	8.49E-08	3.66E-08	7.37E-08	7.70E-08	3.75E-08	5.39E-06	1.05E-05	1.619E-05
469716.84	3766454.71	4.94E-08	2.44E-08	9.70E-08	9.62E-08	2.47E-08	6.10E-06	7.63E-06	1.402E-05
469164.64	3765755.11	4.05E-08	8.44E-07	1.16E-07	1.62E-07	1.40E-06	2.79E-06	2.37E-06	7.724E-06
469167.65	3766153.15	4.06E-08	4.76E-08	3.09E-07	3.96E-07	7.09E-07	8.88E-06	4.05E-06	9.025E-06
469152.69	3766064.99	4.21E-08	1.04E-07	3.02E-07	4.04E-07	1.11E-07	7.01E-06	3.68E-06	1.166E-05
469812.76	3766399.30	5.96E-08	2.91E-08	8.51E-08	8.72E-08	3.00E-08	6.39E-06	9.47E-06	1.615E-05
469856.11	3766190.63	1.66E-07	4.78E-08	6.27E-08	7.55E-08	4.84E-08	4.00E-06	8.80E-06	1.320E-05
469170.65	3766171.36	4.01E-08	5.87E-08	3.06E-07	3.69E-07	6.11E-08	9.16E-06	4.09E-06	1.408E-05
469612.94	3766495.98	4.22E-08	2.10E-08	1.50E-07	1.48E-07	2.15E-08	6.96E-06	6.50E-06	1.385E-05
469149.52	3766047.14	4.21E-08	1.12E-07	2.95E-07	3.96E-07	1.21E-07	6.61E-06	3.59E-06	1.116E-05
469207.66	3766277.46	3.79E-08	3.91E-08	3.53E-07	4.22E-07	4.04E-08	1.09E-05	4.44E-06	1.625E-05
469151.98	3765825.70	4.15E-08	4.85E-07	1.67E-07	2.62E-07	6.63E-07	3.40E-06	2.63E-06	7.653E-06
469146.36	3766029.29	4.21E-08	1.24E-07	2.90E-07	3.97E-07	1.35E-07	6.22E-06	3.49E-06	1.069E-05
469285.01	3766402.45	3.51E-08	3.20E-08	8.01E-07	1.13E-06	3.26E-08	1.13E-05	4.72E-06	1.800E-05
469861.01	3766209.53	1.47E-07	4.60E-08	6.36E-08	6.82E-08	4.67E-08	4.14E-06	9.00E-06	1.351E-05
469173.64	3766189.57	3.96E-08	5.32E-08	3.02E-07	3.62E-07	5.53E-08	9.37E-06	4.12E-06	1.430E-05
469163.41	3765735.39	3.95E-08	9.38E-07	1.04E-07	1.42E-07	1.59E-06	2.63E-06	2.77E-06	7.705E-06
469835.57	3766034.64	7.49E-07	6.22E-08	4.94E-08	5.54E-08	6.20E-08	2.69E-06	5.42E-06	9.093E-06
469840.47	3766053.54	5.65E-07	6.05E-08	5.09E-08	5.69E-08	6.05E-08	2.80E-06	5.74E-06	9.338E-06
469830.67	3766015.75	1.07E-06	6.38E-08	4.79E-08	5.40E-08	6.34E-08	2.59E-06	5.14E-06	9.025E-06
469845.37	3766054.43	4.45E-08	5.87E-08	5.24E-08	5.82E-08	5.88E-08	2.92E-06	6.08E-06	9.675E-06
469143.19	3766011.44	4.20E-08	1.38E-07	2.84E-07	3.98E-07	1.51E-07	5.84E-06	3.39E-06	1.024E-05
469143.91	3765898.82	4.21E-08	2.98E-07	2.36E-07	3.81E-07	3.63E-07	4.20E-06	2.92E-06	8.437E-06
469825.77	3765996.86	1.69E-06	6.54E-08	4.63E-08	5.23E-08	6.49E-08	2.49E-06	4.83E-06	9.235E-06
469853.08	3766332.57	7.76E-08	3.49E-08	7.40E-08	7.71E-08	3.57E-08	5.41E-06	1.00E-05	1.573E-05
469850.27	3766091.32	3.62E-07	5.68E-08	5.38E-08	5.95E-08	5.69E-08	3.05E-06	6.45E-06	1.009E-05
469865.91	3766228.42	1.30E-07	4.42E-08	6.44E-08	6.88E-08	4.49E-08	4.27E-06	9.12E-06	1.374E-05
469861.94	3766289.94	9.43E-08	3.85E-08	6.97E-08	7.32E-08	3.93E-08	4.92E-06	9.85E-06	1.508E-05
469855.17	3766110.22	3.00E-07	5.48E-08	5.51E-08	6.06E-08	5.51E-08	3.18E-06	6.78E-06	1.049E-05
469140.02	3765993.59	4.18E-08	1.54E-07	2.78E-07	3.93E-07	1.69E-07	5.49E-06	3.28E-06	9.803E-06
469632.21	3766496.09	4.23E-08	2.09E-08	1.40E-07	1.39E-07	2.15E-08	6.75E-06	6.37E-06	1.348E-05
469860.07	3766129.11	2.54E-07	5.30E-08	5.63E-08	6.16E-08	5.33E-08	3.31E-06	7.10E-06	1.088E-05
469176.64	3766207.77	3.90E-08	4.89E-08	3.00E-07	3.57E-07	5.07E-08	9.53E-06	4.13E-06	1.446E-05
469210.65	3766295.67	3.70E-08	3.66E-08	3.50E-07	4.18E-07	3.77E-08	1.07E-05	4.38E-06	1.593E-05
469262.06	3766382.13	3.52E-08	2.97E-08	5.23E-07	6.58E-07	3.04E-08	1.09E-05	4.55E-06	1.674E-05
469162.17	3765715.68	3.84E-08	1.06E-06	9.34E-08	1.25				

469145.40	3765756.32	3.84E-08	5.99E-07	1.12E-07	1.55E-07	8.36E-07	2.72E-06	2.27E-06	6.737E-06
469868.94	3766086.48	3.56E-07	5.61E-08	5.06E-08	5.61E-08	5.62E-08	2.81E-06	5.74E-06	9.124E-06
469574.30	3766515.04	3.89E-08	2.02E-08	1.72E-07	1.68E-07	2.07E-08	6.75E-06	5.82E-06	1.299E-05
469804.88	3766437.44	5.19E-08	2.61E-08	8.79E-08	8.95E-08	2.69E-08	6.19E-06	7.80E-06	1.428E-05
469140.04	3766104.06	3.94E-08	7.39E-08	2.57E-07	3.14E-07	7.78E-08	7.00E-06	3.57E-06	1.133E-05
469185.63	3766262.39	3.68E-08	3.99E-08	2.97E-07	3.50E-07	4.12E-08	5.99E-06	4.11E-06	1.446E-05
469148.62	3766156.29	3.84E-08	5.93E-08	2.61E-07	3.13E-07	6.20E-08	7.82E-06	3.73E-06	1.279E-05
469136.87	3766086.21	3.56E-08	8.00E-08	2.54E-07	3.14E-07	8.45E-08	9.47E-06	3.50E-06	1.094E-05
469701.40	3766481.44	4.56E-08	2.25E-08	1.15E-07	1.14E-07	2.31E-08	5.84E-06	6.58E-06	1.273E-05
469132.93	3765828.69	3.94E-08	3.73E-07	1.55E-07	2.34E-07	4.77E-07	3.29E-06	2.52E-06	7.087E-06
469133.70	3766068.36	3.97E-08	8.70E-08	2.52E-07	3.13E-07	9.24E-08	6.34E-06	3.42E-06	1.055E-05
469216.25	3766328.82	3.54E-08	3.29E-08	3.48E-07	4.13E-07	3.38E-08	1.01E-05	4.24E-06	1.518E-05
469889.48	3766242.47	1.17E-07	4.22E-08	6.18E-08	6.59E-08	4.29E-08	4.06E-06	8.29E-06	1.268E-05
469885.51	3766304.00	8.66E-08	3.71E-08	6.68E-08	7.03E-08	3.79E-08	4.64E-06	8.87E-06	1.381E-05
469876.65	3766346.63	7.20E-08	3.37E-08	7.08E-08	7.39E-08	3.45E-08	5.07E-06	8.93E-06	1.428E-05
469151.62	3766174.49	3.80E-08	5.48E-08	2.60E-07	3.10E-07	5.71E-08	8.05E-06	3.77E-06	1.253E-05
469593.56	3766515.15	3.94E-08	2.00E-08	1.60E-07	1.57E-07	2.05E-08	6.51E-06	5.82E-06	1.272E-05
469266.05	3766406.00	3.38E-08	3.00E-08	5.39E-07	6.82E-07	3.07E-08	9.91E-06	4.35E-06	1.558E-05
469144.16	3765736.60	3.75E-08	6.49E-07	1.01E-07	1.37E-07	9.08E-07	2.57E-06	2.18E-06	6.580E-06
469124.86	3765901.81	3.98E-08	2.39E-07	2.10E-07	3.11E-07	2.84E-07	3.99E-06	2.76E-06	7.836E-06
469295.79	3766430.03	3.32E-08	3.19E-08	1.18E-06	1.89E-06	3.25E-08	9.70E-06	4.42E-06	1.279E-05
469670.74	3766496.32	4.26E-08	2.11E-08	1.25E-07	1.24E-07	2.17E-08	6.88E-06	5.69E-06	1.290E-05
469872.85	3766364.98	6.68E-08	3.22E-08	7.24E-08	7.53E-08	3.31E-08	5.20E-06	8.76E-06	1.424E-05
469188.63	3766280.59	3.61E-08	3.74E-08	2.96E-07	3.48E-07	3.86E-08	9.47E-06	4.07E-06	1.430E-05
469823.79	3766431.41	5.27E-08	2.67E-08	8.40E-08	8.58E-08	2.75E-08	5.93E-06	7.82E-06	1.403E-05
469732.06	3766466.56	4.68E-08	2.40E-08	9.19E-08	9.19E-08	2.43E-08	5.52E-06	6.77E-06	1.257E-05
469130.54	3766050.51	3.97E-08	9.29E-08	2.46E-07	3.09E-07	9.90E-08	6.01E-06	3.34E-06	1.013E-05
469127.37	3766032.66	3.97E-08	1.02E-07	2.42E-07	3.08E-07	1.09E-07	5.69E-06	3.25E-06	9.742E-06
469154.61	3766192.70	3.75E-08	5.00E-08	2.58E-07	3.05E-07	5.20E-08	8.21E-06	3.79E-06	1.270E-05
469890.41	3766322.89	7.92E-08	3.56E-08	6.72E-08	7.06E-08	3.64E-08	4.70E-06	8.65E-06	1.364E-05
469124.20	3766014.81	3.96E-08	1.12E-07	2.38E-07	3.07E-07	1.21E-07	5.38E-06	3.16E-06	9.362E-06
469899.28	3766280.26	9.58E-08	3.91E-08	6.31E-08	6.70E-08	3.99E-08	4.27E-06	8.34E-06	1.292E-05
469869.06	3766383.34	6.22E-08	3.08E-08	7.39E-08	7.66E-08	3.16E-08	5.30E-06	8.46E-06	1.404E-05
469612.83	3766515.26	3.95E-08	2.00E-08	1.49E-07	1.47E-07	2.04E-08	6.27E-06	5.79E-06	1.243E-05
469121.03	3765996.96	3.94E-08	1.23E-07	2.32E-07	3.03E-07	1.34E-07	5.08E-06	3.07E-06	8.986E-06
469142.92	3765716.89	3.66E-08	7.08E-07	9.14E-08	1.22E-07	9.90E-07	2.42E-06	2.09E-06	6.462E-06
469128.63	3765796.96	3.80E-08	4.05E-07	1.31E-07	1.87E-07	5.19E-07	2.97E-06	2.35E-06	6.608E-06
469117.86	3765979.11	3.91E-08	1.35E-07	2.25E-07	2.99E-07	1.49E-07	4.80E-06	2.98E-06	8.629E-06
469157.61	3766210.90	3.69E-08	4.61E-08	2.56E-07	3.01E-07	4.79E-08	8.33E-06	3.80E-06	1.283E-05
469242.86	3766383.96	3.38E-08	2.86E-08	4.08E-07	4.92E-07	2.93E-08	9.63E-06	4.21E-06	1.483E-05
469118.37	3765866.74	1.86E-07	1.78E-07	2.69E-07	3.18E-07	2.95E-07	3.55E-06	2.58E-06	7.300E-06
469191.63	3766398.80	3.53E-08	3.51E-08	2.93E-07	3.44E-07	3.61E-08	9.29E-06	4.05E-06	1.405E-05
469842.65	3766425.64	5.35E-08	2.73E-08	8.02E-08	8.23E-08	2.81E-08	5.65E-06	7.74E-06	1.366E-05
469904.18	3766299.15	8.72E-08	3.75E-08	6.37E-08	6.73E-08	3.82E-08	4.34E-06	8.22E-06	1.286E-05
469895.32	3766341.78	7.27E-08	3.41E-08	6.76E-08	7.08E-08	3.49E-08	4.75E-06	8.38E-06	1.341E-05
469865.26	3766401.70	5.80E-08	2.93E-08	7.54E-08	7.78E-08	3.01E-08	5.36E-06	8.08E-06	1.371E-05
469127.39	3765777.24	3.73E-08	4.31E-07	1.19E-07	1.66E-07	5.54E-07	2.80E-06	2.27E-06	6.377E-06
469891.55	3766359.99	6.75E-08	3.27E-08	6.92E-08	7.22E-08	3.35E-08	4.89E-06	8.29E-06	1.345E-05
469160.61	3766229.11	3.63E-08	4.29E-08	2.54E-07	2.98E-07	4.44E-08	8.41E-06	3.81E-06	1.289E-05
469632.09	3766515.38	3.97E-08	1.99E-08	1.40E-07	1.39E-07	2.04E-08	5.47E-06	6.31E-06	1.215E-05
469141.68	3765697.17	3.58E-08	7.64E-07	8.43E-08	1.10E-07	1.07E-06	2.29E-06	2.01E-06	6.696E-06
469111.30	3765939.86	3.84E-08	1.61E-07	2.05E-07	2.81E-07	1.82E-07	4.23E-06	2.79E-06	7.882E-06
469221.74	3766361.35	3.38E-08	2.98E-08	3.43E-07	4.06E-07	3.06E-08	9.31E-06	4.07E-06	1.423E-05
469819.91	3766450.18	4.95E-08	2.54E-08	8.52E-08	8.68E-08	2.61E-08	5.80E-06	7.09E-06	1.316E-05
469887.79	3766378.19	6.29E-08	3.12E-08	7.07E-08	7.35E-08	3.20E-08	5.00E-06	8.09E-06	1.336E-05
469909.08	3766318.05	7.97E-08	3.59E-08	6.41E-08	6.76E-08	3.66E-08	4.40E-06	8.05E-06	1.273E-05
469126.15	3765757.53	3.66E-08	4.58E-07	1.08E-07	1.47E-07	5.89E-07	2.65E-06	2.18E-06	6.167E-06
469163.60	3766247.31	3.57E-08	4.02E-08	2.53E-07	2.96E-07	4.16E-08	8.43E-06	3.80E-06	1.286E-05
469917.95	3766175.42	9.64E-08	3.93E-08	6.01E-08	6.40E-08	4.00E-08	3.98E-06	7.67E-06	1.405E-05
469861.47	3766420.05	5.42E-08	2.79E-08	7.68E-08	7.90E-08	2.87E-08	5.38E-06	7.62E-06	1.326E-05
469113.88	3765831.67	3.73E-08	2.98E-07	1.46E-07	2.09E-07	3.65E-07	3.17E-06	2.40E-06	6.632E-06
469516.39	3766533.99	3.53E-08	2.10E-08	2.24E-07	2.17E-07	2.15E-08	6.54E-06	5.07E-06	1.213E-05
469535.65	3766534.10	3.58E-08	2.02E-08	2.03E-07	1.97E-07	2.06E-08	6.39E-06	5.15E-06	1.202E-05
469884.03	3766396.40	5.87E-08	2.98E-08	7.21E-08	7.47E-08	3.06E-08	5.07E-06	7.80E-06	1.313E-05
469140.44	3765677.45	3.49E-08	8.34E-07	7.74E-08	9.96E-08	1.20E-06	2.17E-06	1.93E-06	6.350E-06
469838.82	3766444.18	5.02E-08	2.60E-08	8.15E-08	8.33E-08	2.67E-08	5.56E-06	7.11E-06	1.294E-05
469166.60	3766265.52	3.50E-08	3.80E-08	2.54E-07	2.96E-07	3.93E-08	8.39E-06	3.78E-06	1.284E-05
469716.62	3766493.28	4.39E-08	2.21E-08	1.09E-07	1.09E-07	2.27E-08	5.36E-06	6.02E-06	1.169E-05
469913.98	3766336.94	7.33E-08	3.44E-08	6.45E-08	6.78E-08	3.52E-08	4.45E-06	7.85E-06	1.257E-05
469747.28	3766478.41	4.59E-08	2.29E-08	9.06E-08	9.01E-08	2.32E-08	5.14E-06	6.27E-06	1.168E-05
469105.81	3765904.79	3.76E-08	1.84E-07	1.83E-07	2.56E-07	2.12E-07	3.79E-06	2.61E-06	7.274E-06
469922.85	3766294.31	8.78E-08	3.77E-08	6.07E-08	6.44E-08	3.84E-08	4.06E-06	7.61E-06	1.196E-05
469124.91	3765737.81	3.57E-08	4.91E-07	9.82E-08	1.32E-07	6.30E-07	2.50E-06	2.10E-06	5.986E-06
469534.92	3766534.21	3.84E-08	1.97E-08	1.85E-07	1.81E-07	2.01E-08	6.22E-06	5.20E-06	1.186E-05
469910.25	3766535.02	6.81E-08	3.31E-08	6.51E-08	6.92E-08	3.38E-08	4.60E-06	7.82E-06	1.405E-05
469197.23	3766332.02	3.38E-08	3.16E-08	2.91E-07	3.39E-07	3.25E-08	8.82E-06	3.91E-06	1.346E-05
469126.60	3766141.21	3.67E-08	5.83E-08	2.23E-07	2.65E-07	6.11E-08	6.74E-06	3.41E-06	1.079E-05
469685.95	3766508.16	4.14E-08	2.06E-08	1.20E-07	1.19E-07	2.12E-08	6.30E-06	5.29E-06	1.191E-05
469247.10	3766409.56	3.24E-08	2.71E-08	4.10E-07	4.94E-07	2.78E-08	8.78E-06	4.02E-06	1.379E-05
469121.05	3766107.43	3.72E-08	6.65E-08	2.20E-07	2.65E-07	7.00E-08	6.29E-06	3.31E-06	1.026E-05
469651.36	3766515.49	3.99E-08	1.99E-08	1.32E-07	1.31E-07	2.05E-08	6.35E-06	5.06E-06	1.175E-05
469117.88	3766089.58	3.74E-08	7.20E-08	2.18E-07	2.65E-07	7.61E-08	6.03E-06	3.25E-06	9.951E-06
469114.72	3766071.73	3.75E-08	7.82E-08	2.16E-07	2.65E-07	8.29E-08	5.76E-06	3.19E-06	9.629E-06
469906.51	3766373.10	6.35E-08	3.17E-08	6.76E-08	7.05E-08	3.25E-08	4.73E-06	7.72E-06	1.271E-05
469129.59	3766159.42	3.64E-08	5.38E-08	2.22E-07	2.63E-07	5.62E-08	6.94E-06	3.45E-06	1.102E-05
469574.18	3766534.32	3.69E-08	1.93E-08	1.71E-07	1.68E-07	1.97E-08	6.03E-06	5.22E-06	1.167E-05
469880.26	3766414.60	5.49E-08	2.85E-08	7.34E-08	7.58E-08	2.92E-08	5.11E-06	7.43E-06	1.279E-05
469169.60	3766283.72	3.43E-08	3.57E-08	2.52E-07	2.93E-07	3.69E-08	8.30E-06	3.75E-06	1.271E-05
469284.42	3766446.53	3.15E-08	3.08E-08	8.70E-07	1.20E-06	3.13E-08	8.43E-06	4.07E-06	1.466E-05
469111.55	3766053.88	3.75E-08	8.36E-08	2.12E-07	2.63				

469137.96	3765638.02	3.30E-08	1.03E-06	6.53E-08	8.24E-08	1.72E-06	1.95E-06	1.78E-06	6.654E-06
469946.42	3766308.36	8.05E-08	3.63E-08	5.84E-08	6.20E-08	3.70E-08	3.86E-06	6.96E-06	1.109E-05
469094.82	3765834.66	3.55E-08	2.39E-07	1.40E-07	1.91E-07	2.86E-07	3.05E-06	6.240E-06	6.240E-06
469138.58	3766214.03	3.47E-08	4.30E-08	2.19E-07	2.56E-07	4.46E-08	7.00E-06	3.51E-06	1.111E-05
469917.79	3766403.99	5.60E-08	2.95E-08	6.73E-08	7.01E-08	3.02E-08	4.65E-06	7.01E-06	1.191E-05
469955.28	3766265.73	9.63E-08	3.94E-08	5.46E-08	5.85E-08	3.99E-08	3.47E-06	6.49E-06	1.025E-05
469121.19	3765678.66	3.33E-08	6.02E-07	7.59E-08	9.75E-08	7.83E-07	2.13E-06	1.87E-06	5.585E-06
469951.32	3766327.26	7.40E-08	3.50E-08	5.89E-08	6.24E-08	3.57E-08	3.94E-06	6.90E-06	1.111E-05
469105.66	3765739.02	3.41E-08	3.90E-07	9.47E-08	1.26E-07	4.77E-07	2.43E-06	5.570E-06	5.570E-06
469947.62	3766345.14	6.90E-08	3.37E-08	6.04E-08	6.37E-08	3.44E-08	4.08E-06	6.96E-06	1.130E-05
469943.93	3766363.02	6.44E-08	3.24E-08	6.18E-08	6.50E-08	3.32E-08	4.21E-06	6.95E-06	1.142E-05
469960.19	3766284.63	8.79E-08	3.79E-08	5.52E-08	5.90E-08	3.85E-08	3.55E-06	6.50E-06	1.034E-05
469940.23	3766380.90	6.03E-08	3.12E-08	6.32E-08	6.62E-08	3.19E-08	4.32E-06	6.88E-06	1.145E-05
469268.10	3766454.58	3.04E-08	3.03E-08	6.44E-07	8.07E-07	3.08E-08	7.64E-06	1.298E-05	1.298E-05
469102.06	3766110.80	3.52E-08	6.20E-08	1.93E-07	2.31E-07	6.53E-08	5.70E-06	3.09E-06	9.371E-06
469516.28	3766553.27	3.35E-08	2.08E-08	2.26E-07	2.17E-07	2.11E-08	5.84E-06	4.61E-06	1.097E-05
469098.90	3766092.95	3.53E-08	6.64E-08	1.92E-07	2.30E-07	7.02E-08	5.48E-06	3.03E-06	9.110E-06
469535.54	3766553.38	3.41E-08	1.93E-08	2.02E-07	1.96E-07	1.96E-08	5.71E-06	4.67E-06	1.085E-05
469228.14	3766413.11	3.11E-08	2.62E-08	3.32E-07	3.91E-07	2.68E-08	7.84E-06	3.73E-06	1.238E-05
469701.17	3766520.01	4.04E-08	2.05E-08	1.15E-07	1.14E-07	2.10E-08	5.03E-06	5.29E-06	1.063E-05
469762.50	3766490.25	4.44E-08	2.25E-08	9.73E-08	9.75E-08	2.31E-08	4.74E-06	5.69E-06	1.071E-05
469631.98	3766534.66	3.74E-08	1.90E-08	1.39E-07	1.38E-07	1.94E-08	5.75E-06	4.57E-06	1.066E-05
469095.73	3766075.10	3.54E-08	7.12E-08	1.89E-07	2.29E-07	7.56E-08	5.26E-06	2.97E-06	8.838E-06
469090.13	3765799.38	3.43E-08	2.61E-07	1.21E-07	1.59E-07	3.11E-07	2.76E-06	2.15E-06	5.733E-06
469107.57	3766144.35	3.48E-08	5.42E-08	1.95E-07	2.30E-07	5.68E-08	3.30E-06	3.17E-06	9.170E-06
469136.72	3765618.31	3.21E-08	1.17E-06	6.09E-08	7.60E-08	2.09E-06	1.86E-06	1.71E-06	6.899E-06
469104.42	3765719.31	3.34E-08	4.13E-07	8.73E-08	1.14E-07	5.04E-07	2.31E-06	1.94E-06	5.403E-06
469092.56	3766057.25	3.55E-08	7.67E-08	1.87E-07	2.28E-07	8.17E-08	5.04E-06	2.91E-06	8.562E-06
469891.56	3766445.41	4.89E-08	2.64E-08	7.27E-08	7.49E-08	2.71E-08	4.84E-06	6.45E-06	1.155E-05
469936.54	3766398.78	5.65E-08	2.99E-08	6.45E-08	6.74E-08	3.07E-08	4.41E-06	6.75E-06	1.140E-05
469178.21	3766335.23	3.23E-08	3.02E-08	2.46E-07	2.84E-07	3.11E-08	7.65E-06	3.61E-06	1.189E-05
469110.56	3766162.55	3.45E-08	5.07E-08	1.95E-07	2.30E-07	5.30E-08	6.19E-06	3.20E-06	9.957E-06
469965.09	3766303.52	8.06E-08	3.64E-08	5.58E-08	5.94E-08	3.70E-08	3.62E-06	6.46E-06	1.035E-05
469119.95	3765658.95	3.24E-08	6.51E-07	6.96E-08	8.87E-08	8.67E-07	2.02E-06	1.79E-06	5.521E-06
469089.50	3765925.31	3.60E-08	1.40E-07	1.71E-07	2.27E-07	1.57E-07	3.77E-06	2.55E-06	7.053E-06
469089.39	3766039.40	3.54E-08	8.23E-08	1.84E-07	2.27E-07	8.82E-08	4.82E-06	2.85E-06	8.281E-06
469554.81	3766553.50	3.46E-08	1.87E-08	1.83E-07	1.79E-07	1.90E-08	5.57E-06	4.70E-06	1.071E-05
469147.57	3766268.65	3.30E-08	3.61E-08	2.19E-07	2.53E-07	3.73E-08	7.04E-06	3.49E-06	1.111E-05
469088.89	3765779.66	3.37E-08	2.83E-07	1.07E-07	1.44E-07	3.38E-07	2.62E-06	2.08E-06	5.601E-06
469144.57	3766250.45	3.36E-08	3.78E-08	2.17E-07	2.52E-07	3.91E-08	6.87E-06	3.45E-06	1.090E-05
469812.15	3766487.73	4.40E-08	2.29E-08	8.72E-08	8.81E-08	2.35E-08	5.26E-06	5.73E-06	9.768E-06
469965.04	3766341.49	8.89E-08	3.39E-08	5.78E-08	6.12E-08	3.45E-08	3.85E-06	1.55E-06	4.666E-06
469204.46	3766387.62	3.12E-08	2.70E-08	2.79E-07	3.24E-07	2.77E-08	7.66E-06	3.62E-06	1.198E-05
469086.22	3766021.55	3.53E-08	8.87E-08	1.80E-07	2.24E-07	9.55E-08	4.60E-06	2.78E-06	8.003E-06
469083.05	3766003.70	3.52E-08	9.72E-08	1.77E-07	2.23E-07	1.05E-07	4.39E-06	2.71E-06	7.738E-06
469651.25	3766534.78	3.77E-08	1.90E-08	1.31E-07	1.30E-07	1.95E-08	5.68E-06	1.05E-06	1.053E-05
469969.99	3766322.41	7.41E-08	3.51E-08	5.63E-08	5.98E-08	3.58E-08	3.70E-06	6.45E-06	1.041E-05
469973.95	3766260.89	9.58E-08	3.93E-08	5.20E-08	5.60E-08	3.98E-08	3.25E-06	5.98E-06	9.513E-06
469962.10	3766360.56	6.42E-08	3.26E-08	5.93E-08	6.26E-08	3.32E-08	3.98E-06	6.57E-06	1.081E-05
469574.07	3766553.61	3.50E-08	1.84E-08	1.69E-07	1.66E-07	1.88E-08	5.43E-06	4.72E-06	1.056E-05
469084.01	3765890.24	3.52E-08	1.62E-07	1.56E-07	2.09E-07	1.85E-07	3.41E-06	2.40E-06	6.558E-06
469103.18	3765699.59	3.27E-08	4.32E-07	8.10E-08	1.04E-07	5.28E-07	2.19E-06	1.87E-06	5.244E-06
469831.15	3766481.27	4.47E-08	2.34E-08	8.34E-08	8.45E-08	2.41E-08	5.11E-06	5.82E-06	1.120E-05
469079.88	3765985.85	3.50E-08	1.04E-07	1.72E-07	2.19E-07	1.14E-07	4.18E-06	2.64E-06	7.467E-06
469113.56	3766180.76	3.38E-08	4.72E-08	1.95E-07	2.28E-07	4.93E-08	6.11E-06	3.23E-06	9.891E-06
469932.84	3766416.66	5.31E-08	2.86E-08	6.57E-08	6.84E-08	2.93E-08	4.42E-06	6.47E-06	1.113E-05
469910.36	3766439.93	4.95E-08	2.69E-08	6.97E-08	7.20E-08	2.76E-08	4.62E-06	6.33E-06	1.120E-05
469978.85	3766279.38	8.77E-08	3.79E-08	5.77E-08	5.65E-08	3.85E-08	3.33E-06	6.03E-06	9.640E-06
469234.47	3766441.63	3.01E-08	2.73E-08	3.74E-07	4.47E-07	2.80E-08	7.33E-06	1.62E-06	5.162E-06
469087.65	3765759.95	3.31E-08	3.01E-07	9.87E-08	1.31E-07	3.58E-07	2.49E-06	2.01E-06	5.415E-06
469141.58	3766232.24	3.39E-08	3.96E-08	2.16E-07	2.51E-07	4.11E-08	6.56E-06	3.15E-06	1.029E-05
469670.51	3766534.89	3.79E-08	1.92E-08	1.24E-07	1.24E-07	1.97E-08	5.59E-06	4.51E-06	1.043E-05
469150.57	3766286.86	3.24E-08	3.40E-08	2.17E-07	2.50E-07	3.51E-08	6.93E-06	3.47E-06	1.097E-05
469593.34	3766553.72	3.51E-08	1.83E-08	1.58E-07	1.55E-07	1.87E-08	5.23E-06	4.72E-06	1.034E-05
469118.71	3765639.23	3.16E-08	7.06E-07	6.45E-08	8.12E-08	9.68E-07	1.92E-06	1.72E-06	5.494E-06
469983.75	3766298.68	8.05E-08	3.66E-08	5.33E-08	5.69E-08	3.71E-08	3.41E-06	6.05E-06	9.718E-06
469850.09	3766475.13	4.53E-08	2.40E-08	7.98E-08	8.11E-08	2.46E-08	4.93E-06	5.86E-06	1.104E-05
469286.57	3766486.08	2.95E-08	2.75E-08	7.46E-07	9.88E-07	2.79E-08	6.99E-06	3.69E-06	1.250E-05
469887.83	3766463.49	4.62E-08	2.51E-08	7.38E-08	7.57E-08	2.58E-08	4.74E-06	5.99E-06	1.097E-05
469078.51	3765855.17	3.43E-08	1.81E-07	1.40E-07	1.87E-07	2.09E-07	3.08E-06	2.26E-06	6.091E-06
469101.94	3765679.87	3.19E-08	4.65E-07	7.45E-08	9.53E-08	5.72E-07	2.08E-06	1.80E-06	5.125E-06
469086.41	3765740.23	3.25E-08	3.18E-07	9.14E-08	1.20E-07	3.77E-07	2.36E-06	1.94E-06	5.238E-06
469984.75	3766336.49	6.91E-08	3.40E-08	5.53E-08	5.87E-08	3.47E-08	3.62E-06	6.15E-06	1.002E-05
469988.65	3766317.57	7.41E-08	3.53E-08	5.38E-08	5.74E-08	3.58E-08	3.48E-06	6.03E-06	9.768E-06
469691.17	3765578.38	6.65E-08	3.28E-08	3.65E-08	3.67E-08	6.09E-08	1.50E-06	1.95E-06	5.666E-06
469980.84	3766355.40	6.44E-08	3.28E-08	5.68E-08	6.00E-08	3.34E-08	3.75E-06	6.20E-06	1.020E-05
469758.01	3766511.66	4.13E-08	2.14E-08	8.83E-08	8.74E-08	2.17E-08	4.51E-06	5.17E-06	9.935E-06
469775.53	3766503.16	4.24E-08	2.18E-08	9.48E-08	9.52E-08	2.23E-08	4.73E-06	5.20E-06	1.020E-05
469992.62	3766256.05	9.50E-08	3.92E-08	4.96E-08	5.35E-08	3.96E-08	3.04E-06	5.54E-06	8.858E-06
469929.15	3766434.54	5.00E-08	2.73E-08	6.68E-08	6.92E-08	2.80E-08	4.38E-06	6.14E-06	1.076E-05
469073.02	3765820.11	3.32E-08	1.99E-07	1.24E-07	1.64E-07	2.31E-07	2.79E-06	2.12E-06	5.664E-06
469116.56	3766198.96	3.33E-08	4.38E-08	1.94E-07	2.26E-07	4.56E-08	5.98E-06	3.18E-06	9.702E-06
469612.60	3766553.84	3.54E-08	1.82E-08	1.48E-07	1.46E-07	1.86E-08	5.09E-06	4.65E-06	1.010E-05
469976.93	3766374.31	6.03E-08	3.15E-08	5.82E-08	6.13E-08	3.22E-08	3.87E-06	6.20E-06	1.031E-05
469720.46	3765611.39	8.85E-08	7.18E-08	3.25E-08	3.65E-08	6.89E-08	1.56E-06	2.09E-06	3.945E-06
469906.65	3766457.90	4.67E-08	2.56E-08	7.08E-08	7.28E-08	2.63E-08	4.54E-06	5.93E-06	1.071E-05
469997.52	3766274.94	8.71E-08	3.79E-08	5.03E-08	5.41E-08	3.84E-08	3.13E-06	5.61E-06	9.007E-06
469085.18	3765720.51	3.19E-08	3.27E-07	8.52E-08	1.10E-07	3.89E-07	2.25E-06	1.87E-06	5.061E-06
469153.56	3766305.06	3.17E-08	3.20E-08	2.15E-07	2.47E-07	3.30E-08	6.67E-06	3.36E-06	1.060E-05
469117.47	3765619.52	3.09E-08	7.64E-07	6.04E-08	7				

469116.23	3765599.80	3.01E-08	8.35E-07	5.68E-08	7.01E-08	1.21E-06	1.74E-06	1.60E-06	5.546E-06
469099.47	3765640.44	3.03E-08	5.31E-07	6.38E-08	8.02E-08	6.68E-07	1.88E-06	1.67E-06	4.932E-06
469969.11	3766412.14	5.27E-08	2.87E-08	6.07E-08	6.33E-08	2.94E-08	3.89E-06	5.80E-06	9.922E-06
469079.91	3766096.32	3.30E-08	6.04E-08	1.69E-07	2.01E-07	6.39E-08	4.75E-06	2.75E-06	8.025E-06
469060.89	3765989.22	3.32E-08	9.11E-08	1.53E-07	1.91E-07	8.89E-08	3.90E-06	6.92E-06	2.49E-06
470021.09	3766288.99	8.11E-08	3.66E-08	4.86E-08	5.23E-08	3.71E-08	3.02E-06	5.27E-06	8.548E-06
469902.33	3766475.87	4.42E-08	2.44E-08	7.16E-08	7.33E-08	2.50E-08	4.40E-06	5.47E-06	1.011E-05
469081.08	3766114.17	3.28E-08	5.66E-08	1.70E-07	2.02E-07	4.86E-08	4.86E-06	2.75E-06	8.130E-06
469603.29	3765479.35	5.16E-08	8.01E-08	3.09E-08	3.51E-08	7.63E-08	1.30E-06	1.58E-06	3.159E-06
469651.13	3766554.06	3.57E-08	1.82E-08	1.31E-07	1.30E-07	1.86E-08	5.09E-06	4.08E-06	9.503E-06
469773.68	3765658.30	1.08E-07	6.63E-08	2.99E-08	3.46E-08	6.38E-08	1.61E-06	2.23E-06	4.143E-06
469082.70	3765681.08	3.06E-08	3.67E-07	7.36E-08	9.29E-08	4.37E-07	2.03E-06	1.75E-06	4.782E-06
469573.96	3766572.90	3.33E-08	1.77E-08	1.68E-07	1.65E-07	1.80E-08	4.91E-06	4.30E-06	9.613E-06
469067.17	3765741.44	3.10E-08	2.57E-07	8.99E-08	1.14E-07	2.98E-07	2.29E-06	1.86E-06	4.940E-06
469122.55	3766235.37	3.22E-08	3.83E-08	1.91E-07	2.21E-07	3.98E-08	5.82E-06	2.90E-06	9.243E-06
470022.14	3766326.54	7.07E-08	3.43E-08	5.06E-08	5.41E-08	3.48E-08	3.22E-06	5.43E-06	8.893E-06
470018.28	3766345.19	6.56E-08	3.32E-08	5.20E-08	5.54E-08	3.37E-08	3.34E-06	5.52E-06	9.103E-06
469991.80	3766387.83	5.66E-08	3.03E-08	5.70E-08	5.99E-08	3.09E-08	3.65E-06	5.68E-06	9.567E-06
469884.09	3766481.57	4.39E-08	2.38E-08	7.42E-08	7.56E-08	2.44E-08	4.45E-06	5.40E-06	1.009E-05
469274.65	3766501.64	2.83E-08	2.52E-08	5.26E-07	6.54E-07	2.56E-08	6.26E-06	3.42E-06	1.095E-05
470025.99	3766307.89	7.58E-08	3.54E-08	4.92E-08	5.28E-08	3.59E-08	3.09E-06	5.29E-06	8.629E-06
469059.46	3765858.16	3.26E-08	1.54E-07	1.29E-07	1.68E-07	1.75E-07	2.95E-06	2.15E-06	5.760E-06
469185.26	3766389.44	2.96E-08	2.58E-08	2.33E-07	2.68E-07	2.65E-08	6.43E-06	3.33E-06	1.035E-05
469670.40	3766554.17	3.95E-08	1.83E-08	1.24E-07	1.23E-07	1.87E-08	5.04E-06	4.06E-06	9.425E-06
469730.03	3765606.18	8.56E-08	6.85E-08	3.11E-08	3.50E-08	6.58E-08	1.51E-06	3.01E-06	3.014E-06
469593.22	3766573.01	3.34E-08	1.75E-08	1.57E-07	1.54E-07	1.79E-08	4.73E-06	4.30E-06	9.403E-06
470029.96	3766246.36	9.29E-08	3.88E-08	4.52E-08	4.90E-08	3.92E-08	2.69E-06	4.76E-06	7.715E-06
469680.44	3765540.16	6.47E-08	6.54E-08	3.17E-08	3.56E-08	6.27E-08	1.39E-06	1.77E-06	3.420E-06
469773.77	3766523.24	4.01E-08	2.09E-08	9.44E-08	9.44E-08	2.14E-08	4.18E-06	4.76E-06	9.206E-06
469098.23	3765620.73	2.96E-08	5.64E-07	5.99E-08	7.45E-08	7.18E-07	1.80E-06	1.62E-06	4.859E-06
469065.93	3765721.72	3.05E-08	2.68E-07	8.32E-08	1.05E-07	3.11E-07	2.18E-06	1.80E-06	4.780E-06
469125.54	3766253.58	3.16E-08	3.61E-08	1.90E-07	2.20E-07	3.74E-08	5.78E-06	2.88E-06	9.174E-06
470034.86	3766265.26	8.72E-08	3.77E-08	4.59E-08	4.96E-08	3.80E-08	2.77E-06	4.85E-06	7.878E-06
469768.32	3765639.19	9.85E-08	6.63E-08	2.95E-08	3.40E-08	6.37E-08	1.56E-06	2.13E-06	3.982E-06
469921.75	3766470.30	4.46E-08	2.48E-08	6.86E-08	7.04E-08	2.54E-08	4.18E-06	5.36E-06	9.776E-06
469299.77	3766522.61	2.80E-08	2.54E-08	8.55E-07	1.22E-06	2.57E-08	5.99E-06	3.42E-06	1.157E-05
469081.46	3765661.37	2.98E-08	3.96E-07	6.79E-08	8.55E-08	4.73E-07	1.94E-06	1.68E-06	4.674E-06
469791.02	3766514.87	4.10E-08	2.13E-08	9.10E-08	9.14E-08	2.19E-08	4.09E-06	4.81E-06	9.166E-06
469088.54	3766147.48	3.23E-08	4.96E-08	1.70E-07	2.00E-07	5.21E-08	5.01E-06	2.67E-06	8.178E-06
469115.00	3765580.08	2.93E-08	9.30E-07	5.30E-08	6.50E-08	1.41E-06	1.66E-06	1.54E-06	5.691E-06
469591.24	3765472.78	4.47E-08	8.08E-08	3.03E-08	3.44E-08	6.79E-08	1.27E-06	1.53E-06	3.963E-06
470030.76	3766284.15	8.24E-08	3.65E-08	4.65E-08	5.02E-08	3.69E-08	2.84E-06	8.015E-06	9.059E-06
469827.32	3766499.81	4.24E-08	2.23E-08	8.38E-08	8.47E-08	2.29E-08	4.16E-06	4.81E-06	9.226E-06
469612.49	3766573.12	3.36E-08	1.75E-08	1.47E-07	1.45E-07	1.79E-08	4.60E-06	4.23E-06	9.186E-06
470036.99	3766340.13	6.76E-08	3.33E-08	4.98E-08	5.32E-08	3.38E-08	3.16E-06	5.21E-06	8.606E-06
469245.64	3766488.05	2.77E-08	2.65E-08	4.05E-07	4.84E-07	2.70E-08	6.07E-06	3.27E-06	1.032E-05
470040.83	3766321.59	7.25E-08	3.43E-08	4.85E-08	5.19E-08	3.48E-08	3.04E-06	5.10E-06	8.382E-06
469053.97	3765823.09	3.16E-08	1.68E-07	1.16E-07	1.51E-07	1.92E-07	2.69E-06	2.03E-06	5.747E-06
469051.39	3765931.28	3.22E-08	1.08E-07	1.39E-07	1.76E-07	1.19E-07	3.40E-06	2.29E-06	6.626E-06
469987.92	3766406.60	5.30E-08	2.88E-08	5.80E-08	6.05E-08	2.94E-08	3.62E-06	5.45E-06	9.301E-06
469159.20	3766338.44	3.04E-08	2.89E-08	2.10E-07	2.41E-07	2.98E-08	5.98E-06	2.95E-06	9.465E-06
469091.53	3766165.68	3.20E-08	4.64E-08	1.70E-07	1.99E-07	4.85E-08	5.07E-06	2.67E-06	8.233E-06
470044.66	3766303.04	7.78E-08	3.54E-08	4.71E-08	5.06E-08	3.58E-08	2.91E-06	4.96E-06	8.119E-06
470010.57	3766382.49	5.68E-08	3.04E-08	5.46E-08	5.74E-08	3.10E-08	3.43E-06	5.36E-06	9.015E-06
469050.40	3765782.08	3.07E-08	1.89E-07	1.03E-07	1.32E-07	2.16E-07	2.43E-06	1.90E-06	5.003E-06
469797.62	3765672.20	1.13E-07	6.33E-08	2.92E-08	3.37E-08	6.10E-08	1.60E-06	2.24E-06	4.140E-06
470033.16	3766358.67	6.08E-08	3.21E-08	5.12E-08	5.44E-08	3.26E-08	3.25E-06	5.24E-06	8.713E-06
469733.67	3765587.07	7.85E-08	6.69E-08	3.10E-08	3.47E-08	6.34E-08	1.46E-06	1.93E-06	3.657E-06
469126.54	3766271.78	3.10E-08	3.40E-08	1.89E-07	2.17E-07	3.52E-08	5.71E-06	2.84E-06	9.059E-06
469704.37	3765554.06	6.88E-08	6.69E-08	3.09E-08	3.47E-08	6.41E-08	1.40E-06	1.81E-06	3.477E-06
469064.69	3765702.01	2.99E-08	2.71E-07	8.06E-08	9.90E-08	3.13E-07	2.08E-06	1.74E-06	4.615E-06
469574.00	3765446.35	4.60E-08	8.63E-08	2.98E-08	3.39E-08	8.18E-08	1.24E-06	1.48E-06	2.993E-06
469190.23	3766420.22	2.84E-08	2.42E-08	2.30E-07	2.65E-07	2.48E-08	6.14E-06	3.23E-06	9.944E-06
469051.64	3765801.80	3.11E-08	1.78E-07	1.10E-07	1.41E-07	2.03E-07	2.55E-06	1.96E-06	5.168E-06
469762.96	3765620.08	9.02E-08	6.60E-08	2.96E-08	3.38E-08	6.34E-08	1.51E-06	2.04E-06	3.830E-06
469094.53	3766183.89	3.16E-08	4.34E-08	1.70E-07	1.98E-07	4.53E-08	5.11E-06	2.67E-06	8.696E-06
469080.22	3765641.65	2.91E-08	4.21E-07	6.31E-08	7.88E-08	5.07E-07	1.85E-06	4.57E-06	4.571E-06
469846.29	3766493.48	4.30E-08	2.28E-08	8.02E-08	8.12E-08	2.34E-08	4.03E-06	4.75E-06	9.029E-06
469049.16	3765762.37	3.02E-08	1.99E-07	9.73E-08	1.24E-07	2.28E-07	2.32E-06	1.84E-06	4.841E-06
469096.99	3765601.01	2.90E-08	6.00E-07	5.63E-08	6.95E-08	7.75E-07	1.72E-06	1.56E-06	4.805E-06
470048.62	3766241.52	9.45E-08	3.86E-08	4.32E-08	4.70E-08	3.89E-08	2.53E-06	4.43E-06	7.221E-06
469516.05	3766591.84	3.05E-08	1.90E-08	2.21E-07	2.14E-07	1.93E-08	4.74E-06	3.86E-06	9.109E-06
469675.08	3765521.05	6.04E-08	6.64E-08	3.07E-08	3.46E-08	6.39E-08	1.34E-06	1.69E-06	3.293E-06
470029.33	3766377.22	5.69E-08	3.09E-08	5.25E-08	5.55E-08	3.14E-08	3.31E-06	5.19E-06	8.725E-06
470053.52	3766380.42	9.03E-08	3.75E-08	4.38E-08	4.76E-08	3.78E-08	2.61E-06	4.52E-06	7.386E-06
469826.91	3765705.20	1.29E-07	6.05E-08	2.81E-08	3.15E-08	5.84E-08	1.63E-06	2.34E-06	4.275E-06
469202.19	3766449.81	2.78E-08	2.37E-08	2.49E-07	2.86E-07	2.42E-08	6.03E-06	3.16E-06	9.791E-06
469045.90	3765896.21	3.16E-08	1.19E-07	1.29E-07	1.64E-07	1.32E-07	3.14E-06	1.77E-06	5.885E-06
469535.31	3766591.96	3.09E-08	1.77E-08	1.98E-07	1.93E-07	1.80E-08	4.66E-06	3.90E-06	9.013E-06
469792.25	3765653.09	1.03E-07	6.33E-08	2.87E-08	3.32E-08	6.09E-08	1.55E-06	2.15E-06	3.985E-06
469063.45	3765682.29	2.93E-08	2.93E-07	7.22E-08	9.04E-08	3.40E-07	1.98E-06	1.69E-06	4.494E-06
470058.43	3766279.31	8.45E-08	3.64E-08	4.45E-08	4.81E-08	3.68E-08	2.68E-06	4.60E-06	7.529E-06
470051.89	3766353.54	6.37E-08	3.23E-08	4.91E-08	5.23E-08	3.28E-08	3.09E-06	4.99E-06	8.312E-06
469131.54	3766289.99	3.05E-08	3.20E-08	1.87E-07	2.15E-07	3.31E-08	5.61E-06	2.80E-06	8.908E-06
470059.51	3766316.65	7.35E-08	3.44E-08	4.64E-08	4.99E-08	3.48E-08	2.87E-06	4.80E-06	7.912E-06
469047.92	3765742.65	2.97E-08	2.11E-07	9.07E-08	1.12E-07	2.42E-07	2.21E-06	1.79E-06	4.687E-06
469097.53	3766202.09	3.12E-08	4.05E-08	1.69E-07	1.96E-07	4.22E-08	5.12E-06	2.65E-06	8.250E-06
469113.76	3765560.37	2.85E-08	1.04E-06	4.97E-08	6.07E-08	1.66E-06	1.59E-06	1.48E-06	5.915E-06
469865.21	3766487.43	4.35E-08	2.33E-08	7.68E-08	7.80E-08	2.39E-08	3.97E-06	4.69E-06	8.902E-06
469631.75	3766573.23	3.38E-08	1.74E-08	1.38E-07	1.37				

469593.11	3766592.29	3.20E-08	1.69E-08	1.56E-07	1.53E-07	1.73E-08	4.34E-06	3.93E-06	8.644E-06
469669.72	3765501.94	5.64E-08	6.68E-08	2.98E-08	3.36E-08	6.43E-08	1.30E-06	1.62E-06	3.169E-06
469604.09	3766117.54	3.09E-08	5.20E-08	1.51E-07	1.78E-07	5.47E-08	4.38E-06	2.44E-06	7.283E-06
469845.48	3765699.99	1.21E-07	5.83E-08	2.65E-08	2.96E-08	5.63E-08	1.56E-06	2.24E-06	4.089E-06
469230.45	3766498.03	2.67E-08	2.50E-08	3.25E-07	3.80E-07	2.56E-08	5.53E-06	3.07E-06	9.381E-06
469103.52	3766238.50	3.04E-08	3.58E-08	1.67E-07	1.92E-07	3.72E-08	5.10E-06	2.62E-06	8.181E-06
469041.91	3765992.59	3.09E-08	7.88E-08	1.37E-07	1.67E-07	8.52E-08	3.66E-06	2.23E-06	6.384E-06
469815.16	3765666.99	1.67E-07	6.04E-08	2.81E-08	3.23E-08	5.83E-08	1.54E-06	2.15E-06	3.976E-06
470025.10	3766395.76	5.33E-08	2.91E-08	5.32E-08	5.58E-08	2.96E-08	3.23E-06	4.91E-06	8.369E-06
469164.69	3766370.97	2.90E-08	2.62E-08	2.04E-07	2.34E-07	2.70E-08	5.55E-06	2.81E-06	8.884E-06
469568.63	3765427.24	4.33E-08	8.49E-08	2.88E-08	3.28E-08	8.04E-08	1.19E-06	1.41E-06	2.878E-06
469752.24	3765581.86	7.59E-08	6.23E-08	2.99E-08	3.35E-08	6.00E-08	1.41E-06	1.86E-06	3.537E-06
469722.94	3765548.85	6.74E-08	6.58E-08	2.96E-08	3.32E-08	6.30E-08	1.36E-06	1.76E-06	3.382E-06
469037.83	3765969.33	3.07E-08	8.53E-08	1.33E-07	1.64E-07	9.28E-08	3.50E-06	2.18E-06	6.191E-06
469612.38	3766592.41	3.20E-08	1.69E-08	1.46E-07	1.44E-07	1.72E-08	4.22E-06	3.92E-06	8.494E-06
469544.70	3765413.34	4.12E-08	9.19E-08	2.86E-08	3.26E-08	8.66E-08	1.18E-06	1.38E-06	2.835E-06
469781.53	3765614.87	8.65E-08	6.24E-08	2.93E-08	3.28E-08	6.00E-08	1.46E-06	1.97E-06	3.697E-06
469034.92	3765826.08	3.02E-08	1.42E-07	1.10E-07	1.39E-07	1.60E-07	2.58E-06	1.94E-06	5.099E-06
469077.74	3765602.22	2.79E-08	4.55E-07	5.64E-08	6.92E-08	5.54E-07	1.69E-06	1.52E-06	4.368E-06
469060.97	3765642.86	2.80E-08	3.43E-07	6.23E-08	7.73E-08	4.01E-07	1.81E-06	1.58E-06	4.295E-06
469842.50	3766511.84	4.08E-08	2.18E-08	8.02E-08	8.08E-08	2.23E-08	3.62E-06	4.46E-06	8.320E-06
470044.26	3766390.43	5.33E-08	2.96E-08	5.13E-08	5.41E-08	3.01E-08	3.12E-06	4.78E-06	8.124E-06
469874.77	3765733.00	1.35E-07	5.67E-08	2.57E-08	2.87E-08	5.48E-08	1.56E-06	2.30E-06	4.165E-06
469693.65	3765515.84	5.90E-08	6.96E-08	2.90E-08	3.26E-08	6.65E-08	1.31E-06	1.66E-06	3.227E-06
469060.51	3766150.61	3.05E-08	4.57E-08	1.51E-07	1.76E-07	4.79E-08	2.44E-06	2.44E-06	7.365E-06
469631.64	3766592.52	3.22E-08	1.69E-08	1.38E-07	1.36E-07	1.73E-08	4.14E-06	3.90E-06	8.375E-06
469106.51	3766256.71	2.98E-08	3.37E-08	1.66E-07	1.90E-07	3.49E-08	5.04E-06	2.59E-06	8.091E-06
469032.34	3765934.26	3.03E-08	9.37E-08	1.26E-07	1.56E-07	1.03E-07	3.30E-06	2.10E-06	5.913E-06
469239.88	3766514.10	2.62E-08	2.46E-08	3.49E-07	4.11E-07	2.50E-08	5.32E-06	3.02E-06	9.170E-06
469640.43	3765468.93	5.00E-08	6.85E-08	2.92E-08	3.30E-08	6.53E-08	1.24E-06	1.51E-06	3.000E-06
469810.82	3765647.88	9.78E-08	6.04E-08	2.77E-08	3.19E-08	5.81E-08	1.49E-06	2.07E-06	3.833E-06
469044.20	3765683.50	2.81E-08	2.38E-07	7.44E-08	8.93E-08	2.72E-07	1.93E-06	1.63E-06	4.260E-06
469094.51	3765561.58	2.74E-08	7.05E-07	4.92E-08	6.00E-08	9.52E-07	1.57E-06	1.45E-06	4.807E-06
469032.39	3765803.01	2.97E-08	1.51E-07	1.04E-07	1.31E-07	1.70E-07	2.44E-06	1.87E-06	4.899E-06
469072.50	3766168.81	3.01E-08	4.29E-08	1.50E-07	1.75E-07	4.49E-08	4.51E-06	2.44E-06	7.399E-06
469045.44	3765703.22	2.87E-08	2.21E-07	8.33E-08	1.04E-07	2.53E-07	2.02E-06	1.68E-06	4.387E-06
469201.02	3766483.70	2.62E-08	2.38E-08	2.43E-07	2.80E-07	2.46E-08	5.29E-06	2.92E-06	8.806E-06
469861.45	3766505.63	4.12E-08	2.22E-08	7.66E-08	7.75E-08	2.27E-08	3.49E-06	4.40E-06	8.133E-06
469140.18	3766341.65	2.88E-08	2.76E-08	1.82E-07	2.08E-07	2.85E-08	5.24E-06	2.68E-06	8.395E-06
469664.36	3765482.83	5.30E-08	6.93E-08	2.88E-08	3.25E-08	6.62E-08	1.26E-06	1.55E-06	3.059E-06
469031.15	3765783.29	2.93E-08	1.60E-07	2.95E-08	1.24E-07	1.81E-07	2.33E-06	1.82E-06	4.750E-06
469030.54	3766611.24	2.95E-08	1.72E-08	1.97E-07	1.92E-07	1.75E-08	4.25E-06	2.87E-06	8.393E-06
469026.85	3765899.19	2.98E-08	1.03E-07	1.19E-07	1.48E-07	1.14E-07	3.09E-06	2.03E-06	5.631E-06
469869.41	3765713.89	1.23E-07	5.65E-08	2.53E-08	2.83E-08	5.46E-08	1.54E-06	2.22E-06	4.044E-06
469776.17	3765595.76	7.93E-08	6.00E-08	2.94E-08	3.28E-08	5.78E-08	1.41E-06	1.89E-06	3.555E-06
469840.11	3765680.88	1.10E-07	5.78E-08	2.65E-08	2.97E-08	5.58E-08	1.52E-06	2.15E-06	3.950E-06
469075.50	3766187.02	2.98E-08	4.04E-08	1.50E-07	1.74E-07	4.22E-08	4.55E-06	2.44E-06	7.242E-06
469059.73	3765623.14	2.74E-08	3.57E-07	5.87E-08	7.23E-08	4.18E-07	1.73E-06	1.52E-06	4.186E-06
469717.58	3765529.74	6.31E-08	6.76E-08	2.82E-08	3.19E-08	6.46E-08	1.32E-06	1.69E-06	3.263E-06
469166.06	3766391.27	2.82E-08	2.49E-08	1.99E-07	2.28E-07	2.56E-08	5.27E-06	2.73E-06	8.504E-06
469029.91	3765763.58	2.88E-08	1.71E-07	9.31E-08	1.17E-07	1.93E-07	2.23E-06	1.77E-06	4.607E-06
469109.51	3766274.92	2.93E-08	3.18E-08	1.64E-07	1.88E-07	3.29E-08	4.98E-06	2.57E-06	7.991E-06
469076.50	3765582.50	2.72E-08	4.90E-07	5.27E-08	6.43E-08	6.04E-07	1.61E-06	1.46E-06	4.316E-06
469042.96	3765663.79	2.75E-08	2.61E-07	6.58E-08	8.13E-08	2.97E-07	1.85E-06	1.58E-06	4.157E-06
469805.46	3765628.77	8.99E-08	6.01E-08	2.76E-08	3.16E-08	5.78E-08	1.45E-06	1.98E-06	3.697E-06
469028.67	3765743.86	2.84E-08	1.79E-07	8.82E-08	1.10E-07	2.03E-07	2.14E-06	1.72E-06	4.465E-06
469544.47	3766611.35	2.98E-08	1.68E-08	1.80E-07	1.76E-07	1.71E-08	4.18E-06	3.61E-06	8.207E-06
469240.30	3766530.30	2.95E-08	2.33E-08	3.56E-07	4.23E-07	2.38E-08	5.10E-06	2.96E-06	8.914E-06
469021.65	3765864.13	2.93E-08	1.14E-07	1.11E-07	1.11E-07	1.26E-07	2.87E-06	2.87E-06	5.332E-06
469788.11	3766554.75	3.57E-08	2.00E-08	7.73E-08	7.73E-08	2.02E-08	3.64E-06	4.00E-06	7.865E-06
469804.98	3766546.56	3.64E-08	2.01E-08	7.40E-08	7.41E-08	2.03E-08	3.59E-06	4.05E-06	7.866E-06
469293.71	3766559.05	2.60E-08	2.22E-08	5.76E-07	7.51E-07	2.26E-08	4.97E-06	3.04E-06	9.405E-06
469688.29	3765496.73	5.62E-08	7.00E-08	2.79E-08	3.16E-08	6.66E-08	1.27E-06	1.59E-06	3.109E-06
469078.50	3766205.23	2.95E-08	3.81E-08	1.50E-07	1.73E-07	3.96E-08	4.56E-06	2.43E-06	7.419E-06
469821.84	3766538.38	3.71E-08	2.02E-08	7.08E-08	7.12E-08	2.03E-08	3.53E-06	4.09E-06	7.845E-06
469771.25	3766562.93	3.48E-08	1.99E-08	8.08E-08	8.07E-08	2.01E-08	3.66E-06	3.93E-06	7.825E-06
469573.73	3766611.47	3.02E-08	1.68E-08	1.68E-07	1.64E-07	1.71E-08	4.10E-06	3.62E-06	8.119E-06
469032.42	3766049.51	2.97E-08	6.20E-08	1.32E-07	1.57E-07	6.61E-08	3.68E-06	2.20E-06	6.328E-06
469311.21	3766565.45	2.59E-08	2.38E-08	1.18E-06	2.06E-06	2.42E-08	4.89E-06	3.05E-06	1.126E-05
469029.25	3766031.66	2.96E-08	6.54E-08	1.29E-07	1.55E-07	7.00E-08	3.59E-06	2.17E-06	6.208E-06
469035.59	3766067.36	2.96E-08	5.81E-08	1.33E-07	1.58E-07	6.17E-08	3.77E-06	2.22E-06	6.425E-06
469864.05	3765694.78	1.13E-07	5.61E-08	2.52E-08	2.81E-08	5.41E-08	1.50E-06	2.14E-06	3.914E-06
469834.75	3765661.77	1.01E-07	5.78E-08	2.69E-08	3.09E-08	5.57E-08	1.48E-06	2.07E-06	3.818E-06
469899.70	3765746.90	1.35E-07	5.47E-08	2.49E-08	2.79E-08	5.29E-08	1.44E-06	2.23E-06	3.950E-06
469036.76	3766085.21	2.96E-08	8.83E-08	1.34E-07	1.58E-07	5.77E-08	3.84E-06	2.53E-06	6.513E-06
469563.27	3765408.13	4.07E-08	8.00E-08	2.80E-08	3.19E-08	7.55E-08	1.15E-06	1.35E-06	2.760E-06
469276.22	3766552.65	2.58E-08	2.16E-08	4.25E-07	5.27E-07	2.20E-08	4.93E-06	2.97E-06	8.919E-06
469093.27	3765541.86	2.67E-08	7.60E-07	4.65E-08	5.63E-08	1.06E-06	1.50E-06	1.40E-06	4.841E-06
469770.80	3765576.65	7.36E-08	6.06E-08	2.87E-08	3.21E-08	5.83E-08	1.37E-06	1.81E-06	3.428E-06
469112.51	3766293.12	2.88E-08	3.01E-08	1.62E-07	1.85E-07	3.11E-08	4.89E-06	2.53E-06	7.854E-06
469041.93	3766103.06	2.95E-08	5.15E-08	1.35E-07	1.59E-07	5.43E-08	3.92E-06	2.25E-06	6.601E-06
469741.51	3765543.64	6.59E-08	6.44E-08	2.80E-08	3.15E-08	6.16E-08	1.32E-06	1.71E-06	3.288E-06
469026.09	3766013.81	2.95E-08	6.80E-08	1.27E-07	1.53E-07	7.29E-08	3.50E-06	2.13E-06	6.074E-06
469857.69	3766523.84	3.88E-08	2.02E-08	6.68E-08	6.70E-08	2.04E-08	3.39E-06	4.14E-06	7.742E-06
469635.06	3765449.82	4.71E-08	6.81E-08	2.83E-08	3.20E-08	6.49E-08	1.20E-06	1.45E-06	2.890E-06
469058.49	3765603.43	2.68E-08	3.65E-07	5.56E-08	6.79E-08	4.29E-07	1.66E-06	1.47E-06	4.074E-06
469041.72	3765644.07	2.69E-08	2.83E-07	6.12E-08	7.54E-08	3.24E-07	1.77E-06	1.53E-06	4.064E-06
469081.49	3766223.43	2.91E-08	3.58E-08	1.49E-07	1.71E-07	3.72E-08	4.54E-06	2.42E-06	7.381E-06
469800.10	3765609.66	8.27E-08	5.90E-08	2.85E-08	3.18E-08	5.67E-08	1.41E-06	1.90E-06	3.566E-06
469219.15	3766514.64	2.55E-08	2.28E-08	2.62E-07	3.06				

469011.90	3765784.50	2.79E-08	1.38E-07	9.35E-08	1.16E-07	1.54E-07	2.31E-06	1.74E-06	4.584E-06
469918.06	3766488.18	4.22E-08	2.27E-08	6.59E-08	6.67E-08	2.31E-08	3.10E-06	4.14E-06	7.461E-06
469092.03	3765522.15	2.61E-08	8.19E-07	4.40E-08	5.30E-08	1.18E-06	1.44E-06	1.35E-06	4.911E-06
469824.03	3765623.56	8.57E-08	5.73E-08	2.67E-08	3.05E-08	5.52E-08	1.40E-06	1.91E-06	3.562E-06
469087.49	3766259.84	2.83E-08	3.19E-08	1.47E-07	1.67E-07	3.31E-08	4.48E-06	2.38E-06	7.262E-06
470010.17	3766469.93	4.24E-08	2.46E-08	5.68E-08	5.87E-08	2.51E-08	3.23E-06	4.31E-06	7.740E-06
469026.19	3765704.43	2.75E-08	1.86E-07	8.17E-08	1.01E-07	2.10E-07	1.96E-06	1.62E-06	4.179E-06
469190.03	3766500.85	2.90E-08	2.16E-08	2.09E-07	2.39E-07	2.21E-08	4.77E-06	2.73E-06	8.005E-06
469820.47	3766558.27	3.51E-08	1.95E-08	7.08E-08	7.11E-08	1.97E-08	3.36E-06	3.78E-06	7.360E-06
469007.79	3765902.18	2.82E-08	8.93E-08	1.09E-07	1.34E-07	9.78E-08	2.95E-06	1.92E-06	5.329E-06
469803.75	3766566.39	3.44E-08	1.94E-08	7.39E-08	7.40E-08	1.96E-08	3.40E-06	3.73E-06	7.350E-06
469706.86	3765491.52	5.51E-08	6.64E-08	2.68E-08	3.02E-08	6.33E-08	1.24E-06	1.55E-06	3.027E-06
469296.88	3766579.53	2.51E-08	2.08E-08	5.31E-07	6.93E-07	2.11E-08	4.55E-06	2.88E-06	8.720E-06
469837.20	3766550.16	3.57E-08	1.96E-08	6.80E-08	6.83E-08	1.98E-08	3.31E-06	3.82E-06	7.339E-06
469053.47	3766171.95	2.86E-08	4.00E-08	1.34E-07	1.55E-07	4.18E-08	4.05E-06	2.25E-06	6.698E-06
469787.02	3766574.51	3.37E-08	1.94E-08	7.70E-08	7.70E-08	1.95E-08	3.42E-06	3.67E-06	7.323E-06
469050.48	3766153.74	2.87E-08	4.17E-08	1.33E-07	1.54E-07	4.37E-08	3.99E-06	2.23E-06	6.619E-06
469629.70	3765430.71	4.44E-08	6.76E-08	2.75E-08	3.11E-08	6.44E-08	1.16E-06	1.39E-06	2.787E-06
469882.61	3765689.57	1.05E-07	5.37E-08	2.43E-08	2.72E-08	5.18E-08	1.44E-06	2.05E-06	3.751E-06
469010.66	3765764.79	2.76E-08	1.45E-07	8.95E-08	1.11E-07	1.62E-07	2.15E-06	1.70E-06	4.383E-06
469605.77	3765416.81	4.20E-08	7.11E-08	2.76E-08	3.12E-08	6.76E-08	1.14E-06	1.36E-06	2.735E-06
469237.29	3766545.58	2.47E-08	2.25E-08	3.03E-07	3.55E-07	2.30E-08	4.63E-06	2.77E-06	8.120E-06
469002.30	3765867.11	2.79E-08	1.00E-07	1.03E-07	1.27E-07	1.10E-07	2.75E-06	1.86E-06	5.069E-06
469960.76	3766538.02	3.57E-08	2.14E-08	6.51E-08	6.67E-08	2.19E-08	3.52E-06	4.00E-06	7.731E-06
469071.02	3765543.07	2.57E-08	5.67E-07	4.58E-08	5.55E-08	7.20E-07	1.48E-06	1.96E-06	4.250E-06
469853.32	3765656.56	9.52E-08	5.53E-08	2.57E-08	2.95E-08	5.34E-08	1.43E-06	1.98E-06	3.668E-06
469653.63	3765444.61	4.70E-08	7.12E-08	2.69E-08	3.04E-08	6.76E-08	1.17E-06	1.43E-06	2.848E-06
469975.88	3766550.36	3.33E-08	2.10E-08	6.38E-08	6.57E-08	2.16E-08	3.61E-06	3.95E-06	7.763E-06
469917.27	3765741.69	1.23E-07	5.25E-08	2.40E-08	2.68E-08	5.08E-08	1.38E-06	2.17E-06	3.781E-06
469173.81	3766437.30	2.65E-08	2.24E-08	1.92E-07	2.19E-07	2.30E-08	4.71E-06	2.56E-06	7.755E-06
469994.84	3766544.10	3.37E-08	2.15E-08	6.16E-08	6.36E-08	2.21E-08	3.52E-06	3.98E-06	7.709E-06
469039.24	3765604.64	2.58E-08	2.98E-07	5.48E-08	6.66E-08	3.43E-07	1.62E-06	1.43E-06	3.843E-06
469056.47	3766190.15	2.83E-08	3.78E-08	1.34E-07	1.54E-07	3.95E-08	4.07E-06	2.25E-06	6.103E-06
469998.67	3766525.56	3.63E-08	2.23E-08	6.07E-08	6.25E-08	2.29E-08	3.38E-06	4.04E-06	7.625E-06
469760.08	3765538.43	6.41E-08	6.16E-08	2.61E-08	2.99E-08	5.89E-08	1.28E-06	1.66E-06	3.188E-06
469024.95	3765684.71	2.70E-08	1.92E-07	7.78E-08	9.60E-08	2.17E-07	1.87E-06	1.57E-06	4.053E-06
469022.47	3765645.28	2.59E-08	2.26E-07	6.23E-08	7.46E-08	2.54E-07	1.72E-06	1.48E-06	3.845E-06
469961.29	3766449.97	4.60E-08	2.21E-08	5.18E-08	5.29E-08	2.25E-08	2.88E-06	4.11E-06	7.189E-06
469090.48	3766278.05	2.79E-08	3.02E-08	1.45E-07	1.65E-07	3.13E-08	4.41E-06	2.35E-06	7.161E-06
469818.67	3765604.45	7.92E-08	5.63E-08	2.74E-08	3.06E-08	5.42E-08	1.36E-06	1.83E-06	3.441E-06
469987.288	3766535.81	3.70E-08	1.96E-08	6.29E-08	6.32E-08	3.98E-08	3.17E-06	3.83E-06	7.206E-06
469009.42	3765745.07	2.72E-08	1.52E-07	8.54E-08	1.06E-07	1.70E-07	2.06E-06	1.65E-06	4.254E-06
469146.86	3766393.10	2.70E-08	2.39E-08	1.72E-07	1.95E-07	2.45E-08	4.66E-06	2.48E-06	7.591E-06
469677.56	3765458.51	4.94E-08	6.85E-08	2.65E-08	3.00E-08	6.50E-08	1.19E-06	1.46E-06	2.886E-06
469911.91	3765722.58	1.14E-07	5.22E-08	2.37E-08	2.65E-08	5.05E-08	1.41E-06	2.09E-06	3.774E-06
469263.20	3766567.21	2.47E-08	2.06E-08	3.41E-07	4.12E-07	2.11E-08	4.49E-06	2.77E-06	8.077E-06
469956.88	3766556.80	3.38E-08	2.05E-08	6.62E-08	6.78E-08	2.11E-08	3.59E-06	3.83E-06	7.636E-06
469059.47	3766208.36	2.80E-08	3.60E-08	1.34E-07	1.54E-07	3.75E-08	4.09E-06	2.25E-06	6.731E-06
469730.79	3765505.42	5.76E-08	6.36E-08	2.57E-08	2.95E-08	6.07E-08	1.24E-06	1.57E-06	3.053E-06
469914.36	3766506.06	3.98E-08	2.03E-08	5.82E-08	5.88E-08	2.05E-08	3.04E-06	3.94E-06	7.183E-06
469056.01	3765564.00	2.55E-08	4.27E-07	4.80E-08	5.83E-08	5.11E-07	1.52E-06	1.37E-06	3.960E-06
469010.26	3766035.03	2.80E-08	5.90E-08	1.17E-07	1.39E-07	6.30E-08	3.32E-06	2.03E-06	5.752E-06
469013.43	3766052.88	2.80E-08	5.60E-08	1.18E-07	1.40E-07	5.95E-08	3.39E-06	2.05E-06	5.841E-06
469121.16	3766344.86	2.73E-08	2.59E-08	1.57E-07	1.78E-07	2.67E-08	4.57E-06	2.41E-06	7.395E-06
469847.96	3765637.45	8.81E-08	5.52E-08	2.55E-08	2.94E-08	5.31E-08	1.39E-06	1.91E-06	3.548E-06
469207.62	3766530.85	2.44E-08	2.19E-08	2.28E-07	2.64E-07	2.25E-08	4.51E-06	2.67E-06	7.741E-06
469016.60	3766070.73	2.80E-08	5.27E-08	1.19E-07	1.41E-07	5.59E-08	3.46E-06	2.06E-06	5.914E-06
469996.81	3765832.04	2.72E-08	1.07E-07	9.66E-08	1.19E-07	1.18E-07	2.58E-06	1.79E-06	4.840E-06
469023.71	3765665.00	2.65E-08	2.04E-07	7.31E-08	8.95E-08	2.30E-07	1.80E-06	1.52E-06	3.942E-06
470013.77	3766537.99	3.47E-08	2.19E-08	5.95E-08	6.15E-08	2.25E-08	3.37E-06	3.94E-06	7.507E-06
469019.77	3766088.58	2.79E-08	4.99E-08	1.20E-07	1.41E-07	5.28E-08	3.52E-06	2.08E-06	5.985E-06
469891.79	3766529.79	3.76E-08	1.97E-08	6.20E-08	6.22E-08	1.99E-08	3.09E-06	3.81E-06	7.097E-06
469984.04	3766425.38	4.90E-08	2.56E-08	5.58E-08	5.76E-08	2.61E-08	2.75E-06	4.06E-06	7.026E-06
469007.10	3766017.18	2.79E-08	6.11E-08	1.15E-07	1.37E-07	6.53E-08	3.24E-06	1.99E-06	5.640E-06
469090.79	3765502.43	2.54E-08	8.93E-07	4.16E-08	5.00E-08	1.36E-06	1.38E-06	1.30E-06	5.044E-06
469532.51	3765372.70	3.63E-08	8.33E-08	2.69E-08	3.07E-08	7.86E-08	1.09E-06	1.26E-06	2.600E-06
469062.46	3766226.56	2.77E-08	3.42E-08	1.34E-07	1.53E-07	3.56E-08	4.09E-06	2.24E-06	6.719E-06
469008.18	3765725.35	2.68E-08	1.58E-07	8.17E-08	1.01E-07	1.77E-07	1.98E-06	1.60E-06	4.127E-06
469701.49	3765472.41	5.17E-08	6.56E-08	2.61E-08	2.95E-08	6.24E-08	1.20E-06	1.49E-06	2.919E-06
470025.20	3766482.65	4.04E-08	2.40E-08	5.56E-08	5.74E-08	2.45E-08	3.10E-06	4.06E-06	7.361E-06
469022.94	3766106.43	2.78E-08	4.71E-08	1.21E-07	1.42E-07	4.97E-08	3.57E-06	2.09E-06	6.041E-06
469021.24	3765625.56	2.54E-08	2.42E-07	5.71E-08	6.93E-08	2.74E-07	1.65E-06	1.43E-06	3.756E-06
469093.48	3766296.25	2.74E-08	2.86E-08	1.43E-07	1.63E-07	2.96E-08	4.34E-06	2.32E-06	7.050E-06
469957.238	3766468.88	4.33E-08	2.11E-08	5.19E-08	5.30E-08	2.13E-08	2.86E-06	3.96E-06	7.009E-06
469905.54	3765703.47	1.06E-07	5.18E-08	2.36E-08	2.63E-08	5.01E-08	1.42E-06	1.63E-06	3.704E-06
469784.01	3765552.33	6.64E-08	5.88E-08	2.65E-08	2.97E-08	5.64E-08	1.29E-06	1.68E-06	3.204E-06
469893.89	3765805.43	2.68E-08	1.15E-07	9.18E-08	1.13E-07	1.27E-07	2.45E-06	1.73E-06	4.657E-06
469877.25	3765670.46	9.70E-08	5.30E-08	2.46E-08	2.74E-08	5.11E-08	1.41E-06	1.97E-06	3.636E-06
469813.30	3765585.34	7.34E-08	5.55E-08	2.71E-08	3.03E-08	5.34E-08	1.32E-06	1.76E-06	3.322E-06
469038.00	3765584.92	2.53E-08	3.16E-07	5.16E-08	6.25E-08	3.66E-07	1.56E-06	1.39E-06	3.764E-06
469003.93	3765999.33	2.77E-08	6.30E-08	1.12E-07	1.34E-07	6.75E-08	3.17E-06	1.96E-06	5.529E-06
469072.78	3765523.35	2.51E-08	5.99E-07	4.35E-08	5.24E-08	7.75E-07	1.42E-06	1.32E-06	4.228E-06
469026.11	3766124.28	2.77E-08	4.46E-08	1.22E-07	1.42E-07	4.69E-08	3.61E-06	2.10E-06	6.091E-06
469835.92	3766570.01	3.43E-08	1.89E-08	7.16E-08	7.13E-08	1.91E-08	3.19E-06	3.58E-06	6.987E-06
469754.72	3765519.32	6.00E-08	6.10E-08	2.47E-08	2.87E-08	5.83E-08	1.24E-06	1.60E-06	3.074E-06
469819.32	3766578.07	3.37E-08	1.88E-08	7.41E-08	7.38E-08	1.90E-08	3.22E-06	3.54E-06	6.986E-06
469991.00	3766562.64	3.13E-08	2.06E-08	6.22E-08	6.41E-08	2.11E-08	3.48E-06	3.76E-06	7.440E-06
469065.46	3766244.77	2.74E-08	3.25E-08	1.33E-07	1.52E-07	3.38E-08	4.08E-06	2.23E-06	6.695E-06
470009.95	3766556.43	3.17E-08	2.10E-08	6.01E-08	6.21E-08	2.16E-08	3.40E-06	3.80E-06	7.394E-06
469802.71	3766586.13	3.30E-08	1.87E-08	7.66E-08	7.				

468990.18	3765746.28	2.59E-08	1.31E-07	8.21E-08	1.01E-07	1.45E-07	2.20E-06	1.62E-06	4.314E-06
469778.65	3765533.22	6.22E-08	5.83E-08	2.39E-08	2.77E-08	5.60E-08	1.25E-06	1.61E-06	3.088E-06
468988.74	3765905.16	2.69E-08	7.86E-08	1.00E-07	1.22E-07	8.55E-08	2.79E-06	1.50E-06	5.027E-06
469888.08	3766547.76	3.56E-08	1.91E-08	6.12E-08	6.17E-08	1.93E-08	2.99E-06	3.58E-06	6.75E-06
469003.23	3765646.49	2.49E-08	1.93E-07	6.38E-08	7.45E-08	2.15E-07	1.68E-06	1.43E-06	3.683E-06
469225.21	3766560.85	2.37E-08	2.13E-08	2.48E-07	2.89E-07	2.17E-08	4.22E-06	2.59E-06	7.410E-06
469837.23	3765599.24	7.56E-08	5.37E-08	2.65E-08	2.96E-08	5.16E-08	1.31E-06	1.77E-06	3.321E-06
469126.65	3766377.39	2.8E-08	2.39E-07	1.53E-07	1.73E-07	2.46E-07	4.33E-06	2.33E-06	7.061E-06
469696.13	3765453.30	6.47E-08	8.85E-08	2.55E-08	2.89E-08	6.15E-08	1.16E-06	1.43E-06	2.815E-06
469036.77	3765565.21	2.46E-08	3.52E-07	4.75E-08	5.75E-08	4.09E-07	1.49E-06	1.34E-06	3.719E-06
469893.25	3765870.10	2.65E-08	8.77E-08	9.59E-08	1.17E-07	9.59E-08	2.63E-06	1.77E-06	4.821E-06
469266.66	3766587.80	2.39E-08	1.94E-08	3.24E-07	3.91E-07	2.00E-08	4.14E-06	2.64E-06	7.560E-06
469089.55	3765482.71	2.47E-08	9.92E-07	3.94E-08	4.70E-08	1.60E-06	1.32E-06	1.26E-06	5.275E-06
469749.35	3765500.21	5.61E-08	6.02E-08	2.40E-08	2.79E-08	5.76E-08	1.21E-06	1.53E-06	2.966E-06
469937.84	3766563.45	3.38E-08	1.99E-08	6.78E-08	6.89E-08	2.04E-08	3.38E-06	3.62E-06	7.212E-06
469183.53	3766525.66	2.38E-08	2.02E-08	1.85E-07	2.10E-07	2.07E-08	4.28E-06	2.54E-06	7.278E-06
469550.87	3765366.79	3.59E-08	7.80E-08	2.63E-08	2.99E-08	7.37E-08	1.06E-06	1.23E-06	2.542E-06
469071.54	3765503.64	2.45E-08	6.38E-07	4.13E-08	4.95E-08	8.41E-07	1.36E-06	1.27E-06	4.227E-06
469999.01	3766438.45	4.62E-08	2.19E-08	4.71E-08	4.84E-08	2.21E-08	2.62E-06	3.79E-06	6.600E-06
470006.14	3766574.88	2.93E-08	2.01E-08	6.06E-08	6.25E-08	2.07E-08	3.35E-06	3.58E-06	7.129E-06
469004.47	3765666.21	2.54E-08	1.80E-07	7.02E-08	8.55E-08	2.01E-07	1.75E-06	1.47E-06	3.783E-06
469866.53	3765632.24	8.34E-08	5.27E-08	2.46E-08	2.83E-08	5.08E-08	1.34E-06	1.84E-06	3.415E-06
469987.17	3766581.18	2.95E-08	1.96E-08	6.27E-08	6.46E-08	2.02E-08	3.40E-06	3.52E-06	7.112E-06
469989.94	3765726.56	2.56E-08	1.39E-07	7.83E-08	9.58E-08	1.54E-07	1.98E-06	1.54E-06	4.016E-06
469940.56	3766506.71	3.89E-08	2.00E-08	5.37E-08	5.45E-08	2.02E-08	2.79E-06	2.64E-06	6.619E-06
469720.06	3765467.20	5.06E-08	6.21E-08	2.47E-08	2.83E-08	5.91E-08	1.17E-06	1.45E-06	2.842E-06
469972.40	3766481.70	4.12E-08	2.05E-08	5.04E-08	5.15E-08	2.05E-08	2.71E-06	3.69E-06	6.587E-06
469031.45	3766156.87	2.71E-08	3.84E-08	1.18E-07	1.37E-07	4.02E-08	3.58E-06	2.05E-06	5.991E-06
470014.00	3766451.39	4.44E-08	2.53E-08	5.53E-08	5.71E-08	2.58E-08	2.71E-06	3.55E-06	6.468E-06
469053.53	3765524.56	2.43E-08	4.69E-07	4.32E-08	5.19E-08	5.72E-07	1.40E-06	1.29E-06	3.843E-06
469001.99	3765626.77	2.44E-08	2.06E-07	5.63E-08	6.79E-08	2.30E-07	1.61E-06	1.39E-06	3.990E-06
469995.15	3766457.10	4.41E-08	2.45E-08	5.63E-08	5.79E-08	2.49E-08	2.62E-06	3.69E-06	6.519E-06
469018.76	3765586.13	2.44E-08	2.53E-07	5.16E-08	6.19E-08	2.86E-07	1.53E-06	1.35E-06	3.550E-06
469618.98	3765392.49	3.99E-08	7.12E-08	2.56E-08	2.91E-08	6.74E-08	1.08E-06	1.29E-06	2.608E-06
469895.82	3765665.25	9.10E-08	5.09E-08	2.35E-08	2.63E-08	4.91E-08	1.36E-06	1.89E-06	3.491E-06
469642.91	3765406.39	4.18E-08	6.93E-08	2.54E-08	2.88E-08	6.56E-08	1.10E-06	1.32E-06	2.650E-06
469802.58	3765547.12	6.43E-08	5.61E-08	2.36E-08	2.73E-08	5.39E-08	1.25E-06	1.63E-06	3.099E-06
469968.17	3766587.66	3.00E-08	1.92E-08	6.50E-08	6.67E-08	1.97E-08	3.41E-06	3.42E-06	7.035E-06
469831.87	3765580.13	7.06E-08	5.39E-08	2.58E-08	2.88E-08	5.18E-08	1.28E-06	1.70E-06	3.213E-06
469503.45	3765345.38	3.33E-08	8.74E-08	2.61E-08	2.98E-08	8.21E-08	1.05E-06	1.19E-06	2.491E-06
469037.44	3766193.28	3.33E-08	3.53E-08	1.20E-07	1.37E-07	3.68E-08	3.44E-06	2.07E-06	6.075E-06
469851.34	3766581.76	3.33E-08	7.77E-08	1.84E-08	1.86E-08	7.84E-08	3.00E-06	2.63E-06	6.933E-06
469034.44	3766175.08	2.69E-08	3.66E-08	1.18E-07	1.36E-07	3.82E-08	3.60E-06	2.05E-06	6.010E-06
469773.29	3765514.11	5.83E-08	5.75E-08	2.33E-08	2.65E-08	5.51E-08	1.21E-06	1.55E-06	2.981E-06
470021.66	3766414.30	4.90E-08	2.32E-08	4.54E-08	4.65E-08	2.34E-08	2.50E-06	3.70E-06	6.385E-06
469666.84	3765420.29	4.38E-08	6.65E-08	2.52E-08	2.85E-08	6.30E-08	1.11E-06	1.35E-06	2.685E-06
469193.06	3766541.91	2.35E-08	1.96E-08	1.88E-07	2.14E-07	2.00E-08	4.15E-06	2.50E-06	7.123E-06
469071.45	3766281.18	2.64E-08	2.86E-08	1.29E-07	1.46E-07	2.96E-08	3.93E-06	2.15E-06	6.439E-06
469595.05	3765378.60	3.78E-08	6.98E-08	2.59E-08	2.93E-08	6.62E-08	1.07E-06	1.26E-06	2.552E-06
469897.70	3765706.85	2.53E-08	1.47E-07	7.44E-08	9.07E-08	1.63E-07	1.84E-06	1.50E-06	3.843E-06
469861.16	3765613.13	7.75E-08	5.22E-08	2.51E-08	2.85E-08	5.03E-08	1.30E-06	1.77E-06	3.309E-06
469867.85	3766573.75	3.35E-08	1.85E-08	6.47E-08	6.48E-08	1.87E-08	2.95E-06	3.37E-06	6.524E-06
469912.88	3766038.41	2.66E-08	5.30E-08	1.06E-07	1.25E-07	5.64E-08	3.07E-06	1.89E-06	5.322E-06
469894.44	3766056.26	2.66E-08	5.05E-08	1.07E-07	1.26E-07	5.36E-08	3.12E-06	1.90E-06	5.389E-06
469154.86	3766440.85	2.53E-08	2.13E-08	1.64E-07	1.85E-07	2.18E-08	4.16E-06	2.32E-06	6.903E-06
469035.53	3765545.49	2.40E-08	3.70E-07	4.48E-08	5.40E-08	4.32E-07	1.43E-06	1.30E-06	3.650E-06
469895.22	3765667.42	2.44E-08	1.63E-07	6.64E-08	8.03E-08	1.81E-07	1.70E-06	1.42E-06	3.640E-06
469040.44	3766211.49	2.56E-08	3.36E-08	1.19E-07	1.37E-07	3.50E-08	3.66E-06	2.07E-06	6.075E-06
469202.59	3766558.16	2.31E-08	1.99E-08	2.02E-07	2.31E-07	2.07E-08	2.47E-06	2.47E-06	6.990E-06
469743.99	3765481.10	5.27E-08	5.94E-08	2.36E-08	2.74E-08	5.67E-08	1.17E-06	1.47E-06	2.863E-06
469834.83	3766589.77	3.29E-08	1.82E-08	8.26E-08	8.28E-08	1.87E-08	3.03E-06	3.32E-06	6.590E-06
469102.14	3766348.07	2.61E-08	2.48E-08	1.38E-07	1.56E-07	2.55E-08	4.06E-06	2.21E-06	6.642E-06
469897.61	3766074.11	2.66E-08	4.79E-08	1.08E-07	1.26E-07	5.07E-08	3.17E-06	1.92E-06	5.444E-06
469898.11	3766020.56	2.65E-08	5.49E-08	1.04E-07	1.23E-07	5.86E-08	3.01E-06	1.86E-06	5.235E-06
469877.76	3765835.03	2.57E-08	8.69E-08	9.03E-08	1.10E-07	9.51E-08	2.56E-06	1.72E-06	4.693E-06
469690.77	3765434.19	4.57E-08	6.38E-08	2.49E-08	2.82E-08	6.06E-08	1.12E-06	1.37E-06	2.717E-06
469886.46	3765687.13	2.48E-08	1.56E-07	7.03E-08	8.54E-08	1.73E-07	1.77E-06	1.46E-06	3.741E-06
470017.83	3766432.84	4.64E-08	2.27E-08	4.78E-08	4.74E-08	2.29E-08	2.51E-06	3.63E-06	6.328E-06
469968.52	3766500.47	3.94E-08	2.05E-08	5.44E-08	5.37E-08	2.08E-08	2.69E-06	3.56E-06	6.434E-06
469991.30	3766475.75	4.18E-08	2.36E-08	5.74E-08	5.89E-08	2.41E-08	2.60E-06	3.58E-06	6.389E-06
469000.78	3766091.96	2.65E-08	4.54E-08	1.08E-07	1.26E-07	4.79E-08	3.21E-06	1.92E-06	5.490E-06
469890.46	3765646.14	8.47E-08	5.05E-08	2.35E-08	2.62E-08	4.86E-08	1.32E-06	1.83E-06	3.387E-06
469874.65	3765806.64	2.53E-08	9.36E-08	8.69E-08	1.06E-07	1.03E-07	2.44E-06	1.68E-06	4.542E-06
469945.65	3766525.62	3.72E-08	1.97E-08	5.71E-08	5.69E-08	2.00E-08	2.74E-06	3.48E-06	6.415E-06
469873.41	3765786.92	2.52E-08	1.00E-07	8.45E-08	1.03E-07	1.10E-07	2.35E-06	1.66E-06	4.431E-06
469000.75	3765607.06	2.40E-08	2.09E-07	5.50E-08	6.48E-08	2.33E-07	1.55E-06	1.35E-06	3.87E-06
469949.12	3766594.35	3.07E-08	1.87E-08	6.73E-08	6.87E-08	1.93E-08	3.33E-06	3.29E-06	6.819E-06
469872.17	3765767.21	2.50E-08	1.08E-07	8.16E-08	9.92E-08	1.19E-07	2.25E-06	1.62E-06	4.296E-06
469310.09	3766623.02	2.33E-08	2.10E-08	6.95E-07	9.62E-07	2.13E-08	3.82E-06	2.59E-06	8.129E-06
469292.40	3766616.55	2.33E-08	1.91E-08	4.11E-07	5.21E-07	1.94E-08	3.85E-06	2.56E-06	7.408E-06
469894.94	3766002.71	2.62E-08	5.65E-08	1.02E-07	1.21E-07	6.03E-08	2.94E-06	1.83E-06	5.144E-06
469903.28	3766559.70	3.46E-08	1.87E-08	6.23E-08	6.25E-08	1.90E-08	2.84E-06	3.37E-06	6.410E-06
470002.33	3766593.32	2.73E-08	1.92E-08	6.10E-08	6.29E-08	1.97E-08	3.28E-06	3.36E-06	6.831E-06
469070.30	3765483.92	2.39E-08	6.87E-07	3.91E-08	4.67E-08	9.29E-07	1.30E-06	1.23E-06	4.260E-06
469003.95	3766109.81	2.63E-08	4.31E-08	1.09E-07	1.26E-07	4.54E-08	3.25E-06	1.93E-06	5.530E-06
469017.52	3765566.42	2.37E-08	2.98E-07	4.69E-08	5.67E-08	3.39E-07	1.46E-06	1.30E-06	3.530E-06
469569.22	3765360.87	3.56E-08	7.32E-08	2.56E-08	2.91E-08	6.93E-08	1.04E-06	1.22E-06	2.492E-06
469893.98	3765647.70	2.40E-08	1.71E-07	6.21E-08	7.26E-08	1.89E-07	1.64E-06	1.39E-06	3.540E-06
469797.22	3765528.01	6.02E-08	5.49E-08	2.28E-08	2.56E-08	5.25E-08	1.21E-06	1.57E-06	2.992E-06
469714.70	3765448.09	4.76E-08	6.12E-08	2.46E-08	2.78E-0				

469239.33	3766597.13	2.27E-08	1.97E-08	2.45E-07	2.87E-07	2.00E-08	3.79E-06	2.44E-06	6.816E-06
470036.64	3766427.32	4.65E-08	2.35E-08	4.91E-08	4.85E-08	2.36E-08	2.39E-06	3.48E-06	6.062E-06
468969.69	3765908.15	2.54E-08	6.86E-08	9.23E-08	1.11E-07	7.42E-08	2.66E-06	1.73E-06	4.755E-06
469964.31	3766606.31	2.94E-08	1.83E-08	6.55E-08	6.70E-08	1.88E-08	3.26E-06	3.16E-06	6.624E-06
469850.44	3765574.92	6.76E-08	5.17E-08	2.46E-08	2.77E-08	4.97E-08	1.24E-06	1.65E-06	3.105E-06
469685.41	3765415.08	4.31E-08	6.27E-08	2.43E-08	2.75E-08	5.95E-08	1.09E-06	1.32E-06	2.623E-06
469866.73	3766593.52	3.21E-08	1.78E-08	7.04E-08	6.93E-08	1.81E-08	2.83E-06	3.17E-06	6.207E-06
469821.15	3765541.91	6.1E-08	5.28E-08	2.22E-08	2.49E-08	5.06E-08	1.21E-06	1.58E-06	2.988E-06
469941.75	3766544.53	3.55E-08	2.05E-08	6.51E-08	6.61E-08	2.10E-08	2.68E-06	3.31E-06	6.199E-06
469016.28	3765546.70	1.32E-08	3.11E-07	4.43E-08	5.32E-08	3.56E-07	1.40E-06	1.26E-06	3.455E-06
469791.85	3765508.90	5.65E-08	5.42E-08	2.23E-08	2.50E-08	5.18E-08	1.17E-06	1.51E-06	2.892E-06
469077.44	3766317.59	2.55E-08	2.56E-08	1.25E-07	1.41E-07	2.65E-08	3.75E-06	2.08E-06	6.174E-06
469883.15	3766585.55	3.24E-08	1.81E-08	6.35E-08	6.37E-08	1.82E-08	2.79E-06	3.18E-06	6.165E-06
469879.73	3765607.92	7.36E-08	4.99E-08	2.43E-08	2.75E-08	4.81E-08	1.26E-06	1.71E-06	3.191E-06
469868.45	3765708.06	2.42E-08	1.28E-07	7.20E-08	8.71E-08	1.41E-07	1.87E-06	1.45E-06	3.775E-06
469107.63	3766380.60	2.52E-08	2.28E-08	1.34E-07	1.51E-07	2.35E-08	3.85E-06	2.13E-06	6.342E-06
470006.33	3766488.47	3.99E-08	2.33E-08	5.67E-08	5.83E-08	2.37E-08	2.48E-06	3.35E-06	6.031E-06
469762.56	3765475.89	5.13E-08	5.60E-08	2.24E-08	2.57E-08	5.37E-08	1.14E-06	1.44E-06	2.784E-06
469060.06	3765464.21	2.33E-08	7.43E-07	3.71E-08	4.42E-08	1.03E-06	1.25E-06	1.19E-06	4.323E-06
469709.34	3765428.98	4.48E-08	6.02E-08	2.40E-08	2.71E-08	5.72E-08	1.09E-06	1.34E-06	2.651E-06
469046.43	3766247.90	2.58E-08	2.95E-08	1.16E-07	1.31E-07	3.06E-08	3.54E-06	2.00E-06	5.865E-06
469154.95	3766476.90	2.41E-08	2.01E-08	1.55E-07	1.75E-07	2.06E-08	3.81E-06	2.22E-06	6.419E-06
469587.58	3765354.96	3.54E-08	6.89E-08	2.49E-08	2.82E-08	6.53E-08	1.03E-06	1.20E-06	2.446E-06
469850.30	3766601.49	3.18E-08	1.78E-08	8.80E-08	8.03E-08	1.83E-08	2.86E-06	3.13E-06	6.110E-06
469374.01	3766509.41	2.37E-08	1.93E-08	1.65E-07	1.87E-07	1.97E-08	3.73E-06	2.23E-06	6.377E-06
469133.36	3766430.88	2.46E-08	2.10E-08	1.44E-07	1.62E-07	2.16E-08	3.85E-06	2.17E-06	6.393E-06
469998.52	3766611.77	1.58E-08	1.83E-08	6.13E-08	6.31E-08	1.89E-08	3.19E-06	3.13E-06	6.503E-06
469051.06	3765485.13	1.31E-08	5.23E-07	3.87E-08	4.62E-08	6.54E-07	1.29E-06	1.20E-06	3.777E-06
469474.39	3765318.06	3.06E-08	9.14E-08	2.52E-08	2.88E-08	8.56E-08	9.98E-07	1.13E-06	2.388E-06
469172.35	3766542.46	2.28E-08	1.85E-08	1.54E-07	1.74E-07	1.89E-08	3.84E-06	2.38E-06	6.607E-06
469891.50	3765608.27	2.31E-08	1.83E-07	5.46E-08	6.36E-08	2.03E-07	1.52E-06	1.31E-06	3.352E-06
469898.27	3765567.63	2.29E-08	2.54E-07	4.64E-08	5.58E-08	2.86E-07	1.43E-06	1.27E-06	3.367E-06
469190.81	3766573.96	2.22E-08	1.91E-08	1.76E-07	1.99E-07	1.94E-08	3.70E-06	2.32E-06	6.451E-06
469033.05	3765506.06	2.30E-08	3.99E-07	4.07E-08	4.86E-08	4.71E-07	1.32E-06	1.22E-06	3.522E-06
469163.11	3766526.71	2.28E-08	1.88E-08	1.50E-07	1.69E-07	1.92E-08	3.76E-06	2.39E-06	6.526E-06
469897.21	3765688.34	2.39E-08	1.36E-07	6.84E-08	8.27E-08	1.49E-07	1.71E-06	1.41E-06	3.586E-06
469295.01	3766636.83	2.25E-08	1.88E-08	4.05E-07	5.13E-07	1.91E-08	3.56E-06	2.44E-06	6.978E-06
469858.70	3765838.01	2.44E-08	7.68E-08	8.42E-08	1.01E-07	8.35E-08	2.46E-06	1.65E-06	4.482E-06
469181.58	3766558.21	2.25E-08	1.81E-08	1.59E-07	1.79E-07	1.85E-08	3.80E-06	2.35E-06	6.543E-06
469733.27	3765442.88	4.66E-08	5.78E-08	2.31E-08	2.66E-08	5.51E-08	1.10E-06	1.36E-06	2.674E-06
46901.42	3766160.01	2.57E-08	3.57E-08	1.06E-07	1.22E-07	3.73E-08	3.24E-06	1.88E-06	5.448E-06
469540.16	3765331.55	3.27E-08	2.64E-08	2.49E-08	2.81E-08	7.21E-08	1.83E-06	1.00E-06	2.399E-06
469874.37	3765588.81	6.88E-08	4.92E-08	2.47E-08	2.74E-08	4.74E-08	1.23E-06	1.65E-06	3.095E-06
469864.73	3765648.91	2.31E-08	1.51E-07	6.13E-08	7.34E-08	1.66E-07	1.59E-06	1.34E-06	3.406E-06
469312.16	3766643.10	2.24E-08	2.06E-08	7.15E-07	1.00E-06	2.09E-08	3.51E-06	2.44E-06	7.736E-06
469979.51	3766618.27	2.68E-08	1.79E-08	6.36E-08	6.52E-08	1.84E-08	3.17E-06	3.03E-06	6.398E-06
469164.48	3766493.16	2.38E-08	1.94E-08	1.58E-07	1.78E-07	1.99E-08	3.71E-06	2.19E-06	6.305E-06
468952.92	3765768.42	2.38E-08	9.48E-08	7.75E-08	9.34E-08	1.04E-07	2.18E-06	1.56E-06	4.135E-06
469277.87	3766630.56	2.24E-08	1.72E-08	3.02E-07	3.66E-07	1.75E-08	3.56E-06	2.40E-06	6.683E-06
470002.50	3766507.01	3.79E-08	2.25E-08	5.77E-08	5.92E-08	2.29E-08	2.45E-06	3.24E-06	5.893E-06
469015.41	3766178.21	2.55E-08	3.42E-08	1.06E-07	1.22E-07	3.57E-08	3.25E-06	1.89E-06	5.465E-06
468965.97	3765668.63	2.35E-08	1.44E-07	6.47E-08	7.79E-08	1.58E-07	1.65E-06	1.38E-06	3.496E-06
468972.29	3766041.78	2.51E-08	4.80E-08	9.61E-08	1.13E-07	5.10E-08	2.84E-06	1.76E-06	4.933E-06
469786.49	3765489.79	5.31E-08	5.34E-08	2.17E-08	2.44E-08	5.10E-08	1.14E-06	1.45E-06	2.796E-06
469015.04	3765526.98	2.27E-08	3.20E-07	4.24E-08	5.07E-08	3.68E-07	1.35E-06	1.23E-06	3.381E-06
469632.18	3765368.17	3.75E-08	6.69E-08	2.40E-08	2.72E-08	6.32E-08	1.03E-06	1.22E-06	2.470E-06
468951.68	3765748.70	2.37E-08	1.00E-07	7.51E-08	9.05E-08	1.10E-07	2.11E-06	1.53E-06	4.036E-06
469656.11	3765382.07	3.1E-08	6.42E-08	2.39E-08	2.70E-08	6.07E-08	1.04E-06	1.25E-06	2.503E-06
468955.40	3765807.85	2.32E-08	8.02E-08	8.10E-08	9.73E-08	8.73E-08	2.39E-06	1.63E-06	4.389E-06
468969.12	3766023.93	2.51E-08	4.98E-08	9.48E-08	1.11E-07	5.29E-08	2.79E-06	1.74E-06	4.870E-06
468954.16	3765788.13	2.34E-08	8.43E-08	7.93E-08	9.54E-08	9.20E-08	2.33E-06	1.61E-06	4.317E-06
468975.46	3766059.63	2.51E-08	4.57E-08	9.68E-08	1.13E-07	4.84E-08	2.88E-06	1.77E-06	4.578E-06
469018.41	3766196.42	2.54E-08	3.28E-08	1.07E-07	1.22E-07	3.42E-08	3.27E-06	1.90E-06	5.885E-06
469083.13	3766351.28	2.48E-08	2.38E-08	1.23E-07	1.38E-07	2.45E-08	3.64E-06	2.04E-06	6.013E-06
469260.72	3766624.28	2.22E-08	1.72E-08	2.55E-07	3.01E-07	1.76E-08	3.55E-06	2.37E-06	6.524E-06
469680.04	3765395.97	4.07E-08	6.15E-08	2.37E-08	2.68E-08	5.83E-08	1.05E-06	1.27E-06	2.534E-06
469815.78	3765522.80	5.82E-08	5.22E-08	2.17E-08	2.43E-08	4.99E-08	1.17E-06	1.52E-06	2.900E-06
468950.44	3765728.98	2.34E-08	1.07E-07	7.24E-08	8.72E-08	1.17E-07	2.02E-06	1.49E-06	3.923E-06
469757.20	3765456.78	4.83E-08	5.54E-08	2.21E-08	2.58E-08	5.30E-08	1.11E-06	1.38E-06	2.692E-06
468978.62	3766077.48	2.51E-08	4.35E-08	9.73E-08	1.13E-07	4.59E-08	2.91E-06	1.78E-06	5.013E-06
468980.26	3765588.55	2.27E-08	1.89E-07	5.13E-08	5.99E-08	2.10E-07	1.46E-06	1.27E-06	3.264E-06
469200.05	3766589.71	2.19E-08	1.83E-08	1.76E-07	1.99E-07	1.87E-08	3.57E-06	2.28E-06	6.291E-06
468963.49	3765629.19	2.27E-08	1.57E-07	5.72E-08	6.63E-08	1.73E-07	1.53E-06	1.31E-06	3.315E-06
468965.95	3766006.08	2.49E-08	5.11E-08	9.30E-08	1.09E-07	5.44E-08	2.75E-06	1.72E-06	4.801E-06
469243.57	3766018.01	2.20E-08	1.78E-08	2.26E-07	2.63E-07	1.81E-08	3.53E-06	2.33E-06	6.402E-06
469703.97	3765409.87	4.24E-08	5.91E-08	2.33E-08	2.65E-08	5.62E-08	1.06E-06	1.29E-06	2.561E-06
468997.03	3765547.91	1.24E-08	2.65E-07	4.38E-08	5.26E-08	2.99E-07	1.38E-06	1.23E-06	3.294E-06
469605.94	3765349.05	3.54E-08	6.94E-08	2.40E-08	2.71E-08	6.55E-08	1.01E-06	1.18E-06	2.412E-06
469067.82	3765444.49	2.27E-08	8.08E-07	3.54E-08	4.20E-08	1.16E-06	1.21E-06	1.15E-06	4.430E-06
469879.76	3766606.43	3.09E-08	1.74E-08	7.07E-08	6.85E-08	1.76E-08	2.68E-06	2.58E-06	5.866E-06
469891.79	3766095.33	2.50E-08	4.12E-08	9.75E-08	1.13E-07	4.34E-08	2.93E-06	1.78E-06	5.034E-06
468949.20	3765709.27	2.32E-08	1.14E-07	6.93E-08	8.32E-08	1.24E-07	1.92E-06	1.44E-06	3.778E-06
469492.74	3765312.14	3.04E-08	8.52E-08	2.47E-08	2.81E-08	7.99E-08	9.80E-07	1.11E-06	2.339E-06
469897.28	3766597.93	3.13E-08	1.76E-08	6.27E-08	6.24E-08	1.78E-08	2.65E-06	2.99E-06	5.832E-06
469049.82	3765465.42	2.25E-08	5.56E-07	3.67E-08	4.37E-08	7.06E-07	1.24E-06	1.16E-06	3.767E-06
469226.43	3766611.74	2.18E-08	1.87E-08	2.04E-07	2.35E-07	1.92E-08	3.50E-06	2.29E-06	6.283E-06
470021.39	3766501.10	3.80E-08	2.26E-08	5.52E-08	5.66E-08	2.30E-08	2.36E-06	3.15E-06	5.708E-06
468961.62	3765981.27	2.46E-08	5.29E-08	9.05E-08	1.07E-07	5.65E-08	2.69E-06	1.69E-06	4.714E-06
469031.81	3765486.34	2.24E-08	4.21E-07	3.84E-08	4.58E-08	5.02E-07	1.27E-06	1.18E-06	3.477E-06
468984.96	3766113.18	2.49E-08	3.92E-08	9.78E-08	1.13E-0				

468933.67	3765769.63	2.28E-08	8.37E-08	7.32E-08	8.76E-08	9.10E-08	2.12E-06	1.50E-06	3.984E-06
469005.06	3765484.58	5.15E-08	5.08E-08	2.09E-08	2.34E-08	4.85E-08	1.11E-06	1.41E-06	2.717E-06
469066.59	3765424.77	2.21E-08	8.88E-07	3.39E-08	4.00E-08	1.34E-06	1.16E-06	1.12E-06	4.599E-06
469775.77	3765451.57	4.71E-08	5.19E-08	2.11E-08	2.38E-08	4.97E-08	1.08E-06	1.35E-06	2.619E-06
469151.95	3766543.56	2.19E-08	1.80E-08	1.34E-07	1.50E-07	1.85E-08	3.42E-06	2.23E-06	5.986E-06
469048.58	3765445.70	2.20E-08	5.91E-07	3.51E-08	4.16E-08	7.62E-07	1.19E-06	1.13E-06	3.737E-06
468932.43	3765749.91	2.27E-08	9.01E-08	7.13E-08	8.53E-08	9.81E-08	2.03E-06	1.47E-06	3.866E-06
469062.429	3765343.14	3.0E-08	6.53E-08	2.32E-08	2.63E-08	6.17E-08	9.89E-07	1.16E-06	2.363E-06
468946.72	3765669.84	2.26E-08	1.25E-07	7.59E-08	7.34E-08	1.37E-07	1.60E-06	1.35E-06	3.556E-06
468934.91	3765789.34	2.21E-08	7.66E-08	7.46E-08	8.91E-08	8.31E-08	2.22E-06	1.54E-06	4.108E-06
468977.78	3765549.12	2.17E-08	2.26E-07	4.35E-08	5.20E-08	2.52E-07	1.35E-06	1.20E-06	3.147E-06
469030.57	3765466.63	2.18E-08	4.41E-07	3.64E-08	4.33E-08	5.32E-07	1.22E-06	1.14E-06	3.437E-06
469722.54	3765404.66	4.16E-08	5.58E-08	2.21E-08	2.54E-08	5.30E-08	1.04E-06	1.26E-06	2.500E-06
469263.72	3766644.71	2.15E-08	1.64E-08	2.35E-07	2.77E-07	1.68E-08	3.30E-06	2.26E-06	6.123E-06
469576.88	3765321.73	3.25E-08	6.74E-08	2.37E-08	2.68E-08	6.38E-08	9.70E-07	1.12E-06	2.308E-06
469114.41	3766434.44	2.35E-08	2.01E-08	1.26E-07	1.41E-07	2.07E-08	3.45E-06	1.99E-06	5.777E-06
468931.19	3765730.19	2.25E-08	9.45E-08	6.93E-08	8.29E-08	1.03E-07	1.97E-06	1.44E-06	3.784E-06
469877.89	3766626.57	2.94E-08	1.68E-08	6.73E-08	6.72E-08	1.71E-08	2.56E-06	2.79E-06	5.552E-06
469863.65	3765550.60	6.11E-08	4.87E-08	2.08E-08	2.32E-08	4.67E-08	1.17E-06	1.53E-06	2.899E-06
469895.27	3766618.14	2.98E-08	1.70E-08	6.34E-08	6.31E-08	1.72E-08	2.54E-06	2.81E-06	5.537E-06
469012.56	3765487.55	2.17E-08	3.50E-07	3.80E-08	4.52E-08	4.06E-07	1.25E-06	1.15E-06	3.263E-06
469912.64	3766609.70	3.02E-08	1.72E-08	6.08E-08	6.07E-08	1.74E-08	2.51E-06	2.83E-06	5.519E-06
469230.32	3766632.49	2.11E-08	1.71E-08	1.89E-07	2.16E-07	1.74E-08	3.27E-06	2.19E-06	5.920E-06
468929.95	3765710.48	2.22E-08	9.93E-08	6.71E-08	8.01E-08	1.08E-07	1.90E-06	1.41E-06	3.691E-06
469135.41	3766479.46	2.30E-08	1.91E-08	1.33E-07	1.49E-07	1.96E-08	3.40E-06	2.02E-06	5.251E-06
468945.48	3765650.12	2.23E-08	1.31E-07	6.05E-08	7.22E-08	1.44E-07	1.55E-06	1.30E-06	3.272E-06
469746.47	3765418.56	4.30E-08	5.37E-08	2.14E-08	2.49E-08	5.11E-08	1.04E-06	1.28E-06	2.520E-06
468994.55	3765508.48	2.16E-08	2.76E-07	4.03E-08	4.79E-08	3.12E-07	1.28E-06	1.16E-06	3.141E-06
469834.35	3765517.59	5.62E-08	4.97E-08	2.07E-08	2.31E-08	4.76E-08	1.14E-06	1.47E-06	2.811E-06
469144.65	3766495.21	2.28E-08	1.86E-08	1.36E-07	1.52E-07	1.91E-08	3.36E-06	2.02E-06	5.730E-06
468944.24	3765630.40	2.19E-08	1.38E-07	5.72E-08	6.80E-08	1.51E-07	1.49E-06	1.26E-06	3.193E-06
468959.77	3765570.05	2.14E-08	1.80E-07	4.58E-08	5.43E-08	1.98E-07	1.37E-06	1.20E-06	3.077E-06
469860.52	3766635.00	2.84E-08	1.70E-08	6.25E-08	6.28E-08	1.72E-08	2.55E-06	2.72E-06	5.461E-06
468953.30	3766045.15	2.39E-08	4.35E-08	8.74E-08	1.02E-07	4.60E-08	2.63E-06	1.64E-06	4.577E-06
469799.70	3765465.47	4.85E-08	5.00E-08	2.06E-08	2.31E-08	4.77E-08	1.08E-06	1.36E-06	2.631E-06
469943.32	3766633.28	2.82E-08	1.71E-08	6.73E-08	6.82E-08	1.76E-08	2.86E-06	2.77E-06	5.824E-06
468950.13	3766027.30	2.37E-08	4.50E-08	8.64E-08	1.01E-07	4.77E-08	2.60E-06	1.63E-06	4.533E-06
468928.71	3765690.76	2.19E-08	1.03E-07	6.50E-08	7.76E-08	1.12E-07	1.85E-06	1.39E-06	3.617E-06
469187.93	3766604.93	2.10E-08	1.73E-08	1.49E-07	1.68E-07	1.76E-08	3.30E-06	2.15E-06	5.825E-06
468943.01	3765610.69	2.15E-08	1.44E-07	5.41E-08	6.40E-08	1.58E-07	1.44E-06	1.23E-06	3.114E-06
468996.38	3765681.34	2.23E-08	3.18E-08	9.37E-08	1.09E-07	3.32E-08	2.94E-06	1.74E-06	4.468E-06
468956.47	3766063.00	2.38E-08	4.14E-08	8.77E-08	1.02E-07	4.38E-08	2.65E-06	1.69E-06	4.601E-06
469669.32	3765357.75	3.66E-08	5.91E-08	2.25E-08	2.55E-08	5.59E-08	9.90E-07	1.18E-06	2.368E-06
468993.39	3766163.14	2.27E-08	3.27E-08	9.47E-08	1.08E-07	3.42E-08	2.91E-06	1.72E-06	4.526E-06
469529.46	3765300.32	3.00E-08	7.45E-08	2.37E-08	2.68E-08	7.02E-08	9.46E-07	1.08E-06	2.251E-06
469770.40	3765432.46	4.45E-08	5.14E-08	2.08E-08	2.36E-08	4.92E-08	1.05E-06	1.30E-06	2.536E-06
468976.54	3765529.40	2.13E-08	2.30E-07	4.17E-08	4.96E-08	2.56E-07	1.30E-06	1.17E-06	3.069E-06
469146.19	3766569.61	2.11E-08	1.75E-08	1.24E-07	1.39E-07	1.79E-08	3.34E-06	2.12E-06	5.784E-06
469693.25	3765371.65	3.80E-08	5.69E-08	2.24E-08	2.53E-08	5.40E-08	9.99E-07	1.20E-06	2.955E-06
468927.48	3765671.05	2.17E-08	1.07E-07	6.29E-08	7.49E-08	1.16E-07	1.79E-06	1.36E-06	3.532E-06
468946.96	3766009.45	2.25E-08	4.57E-08	8.45E-08	9.86E-08	4.85E-08	2.56E-06	1.61E-06	4.470E-06
469047.34	3765425.98	2.15E-08	6.31E-07	3.36E-08	3.97E-08	8.30E-07	1.15E-06	1.09E-06	3.799E-06
469029.33	3765446.91	2.13E-08	4.62E-07	3.49E-08	4.13E-08	5.62E-07	1.18E-06	1.11E-06	3.407E-06
468926.09	3765879.05	2.23E-08	6.04E-08	7.69E-08	9.09E-08	6.49E-08	2.30E-06	1.53E-06	4.145E-06
468999.38	3766199.55	2.31E-08	3.03E-08	9.53E-08	1.09E-07	3.16E-08	2.93E-06	1.73E-06	4.946E-06
469958.64	3766645.08	2.71E-08	1.68E-08	6.58E-08	6.68E-08	1.72E-08	2.81E-06	2.66E-06	5.667E-06
469021.41	3766214.61	2.16E-08	2.84E-08	9.87E-08	1.12E-07	2.95E-08	3.03E-06	1.75E-06	5.070E-06
469717.18	3765385.55	3.94E-08	5.47E-08	1.84E-08	2.50E-08	5.20E-08	1.01E-06	1.22E-06	2.419E-06
468956.64	3766080.85	2.33E-08	3.92E-08	8.77E-08	1.01E-07	4.14E-08	2.67E-06	1.64E-06	4.608E-06
468942.56	3765594.25	2.21E-08	4.77E-08	8.28E-08	9.68E-08	5.07E-08	2.51E-06	1.59E-06	4.407E-06
469065.35	3765405.06	2.15E-08	9.97E-07	3.23E-08	3.80E-08	1.59E-06	1.12E-06	1.08E-06	4.877E-06
469091.09	3766411.53	2.32E-08	2.05E-08	1.14E-07	1.28E-07	2.11E-08	3.27E-06	1.90E-06	5.479E-06
469595.23	3765315.82	3.23E-08	6.60E-08	2.30E-08	2.61E-08	6.25E-08	9.53E-07	1.11E-06	2.271E-06
469291.45	3766674.18	2.09E-08	1.82E-08	3.32E-07	4.07E-07	1.84E-08	3.08E-06	2.19E-06	6.063E-06
469136.59	3766553.25	2.11E-08	1.77E-08	1.21E-07	1.35E-07	1.81E-08	3.23E-06	2.14E-06	5.683E-06
469828.99	3765498.48	5.29E-08	4.90E-08	2.04E-08	2.29E-08	4.69E-08	1.11E-06	1.42E-06	2.724E-06
469642.65	3765337.22	3.46E-08	6.12E-08	2.25E-08	2.55E-08	5.77E-08	9.69E-07	1.14E-06	2.313E-06
469011.32	3765467.84	2.12E-08	3.63E-07	3.62E-08	4.29E-08	4.24E-07	1.21E-06	1.12E-06	3.210E-06
469155.78	3766585.98	2.08E-08	1.72E-08	1.26E-07	1.41E-07	1.76E-08	3.26E-06	2.09E-06	5.676E-06
468941.77	3765590.97	2.11E-08	1.49E-07	5.03E-08	5.76E-08	1.63E-07	1.39E-06	1.20E-06	3.034E-06
469273.63	3766667.66	2.09E-08	1.70E-08	2.44E-07	2.90E-07	1.74E-08	3.08E-06	2.16E-06	5.835E-06
468920.59	3765843.98	2.22E-08	6.47E-08	7.42E-08	8.79E-08	6.97E-08	2.21E-06	1.50E-06	4.033E-06
469858.28	3765531.49	5.75E-08	4.81E-08	2.01E-08	2.25E-08	4.60E-08	1.14E-06	1.48E-06	2.810E-06
469453.87	3765276.27	2.76E-08	8.89E-08	2.36E-08	2.69E-08	8.39E-08	9.31E-07	1.04E-06	2.223E-06
468937.07	3765592.18	2.16E-08	5.05E-08	8.04E-08	9.43E-08	5.30E-08	2.45E-06	1.45E-06	4.357E-06
469052.42	3766284.31	2.15E-08	2.44E-08	1.04E-07	1.18E-07	2.53E-08	3.14E-06	1.78E-06	5.219E-06
468958.54	3765550.33	2.10E-08	1.87E-07	4.35E-08	5.15E-08	2.06E-07	1.33E-06	1.17E-06	3.006E-06
468926.24	3765651.33	2.14E-08	1.11E-07	6.06E-08	7.21E-08	1.21E-07	1.73E-06	1.33E-06	3.441E-06
469741.11	3765399.45	4.07E-08	5.27E-08	2.10E-08	2.44E-08	5.01E-08	1.01E-06	1.24E-06	2.439E-06
468962.80	3766098.70	2.26E-08	3.73E-08	8.77E-08	1.01E-07	4.93E-08	2.68E-06	1.64E-06	4.612E-06
469794.34	3765446.36	4.58E-08	4.92E-08	2.03E-08	2.27E-08	4.69E-08	1.05E-06	1.31E-06	2.548E-06
468993.31	3765488.76	2.10E-08	2.96E-07	3.77E-08	4.47E-08	3.38E-07	1.23E-06	1.13E-06	3.097E-06
468931.58	3765914.12	2.11E-08	5.35E-08	7.79E-08	9.17E-08	5.73E-08	2.39E-06	1.55E-06	4.241E-06
468916.90	3765810.27	2.12E-08	6.76E-08	7.16E-08	8.49E-08	7.30E-08	2.15E-06	1.48E-06	3.953E-06
468914.42	3765770.84	2.14E-08	7.43E-08	6.91E-08	8.21E-08	8.03E-08	2.06E-06	1.45E-06	3.842E-06
468965.97	3766116.55	2.22E-08	3.57E-08	8.78E-08	1.01E-07	3.74E-08	2.69E-06	1.64E-06	4.616E-06
469927.99	3766621.49	2.93E-08	1.68E-08	6.46E-08	6.29E-08	1.71E-08	2.38E-06	2.67E-06	5.243E-06
469165.37	3766602.34	2.05E-08	1.72E-08	1.31E-07	1.46E-07	1.75E-08	3.17E-06	2.07E-06	5.567E-06
468915.66	3765790.55	2.10E-08	6.97E-08	7.02E-08	8.33E-08	7.52E-08	2.12E-06	1.47E-06	3.914E-06
468913.19	3765751.12	2.16E-08	7.79E-08	6.77E-08	8.05				

469497.79	3765276.40	2.78E-08	7.81E-08	2.30E-08	2.62E-08	7.33E-08	9.13E-07	1.03E-06	2.173E-06
469064.11	3765385.34	2.10E-08	1.13E-06	3.09E-08	3.63E-08	1.92E-06	1.08E-06	1.05E-06	5.266E-06
468908.23	3765672.26	2.04E-08	8.80E-08	6.14E-08	7.29E-08	9.54E-08	1.86E-06	1.38E-06	3.569E-06
469876.25	3766646.60	2.71E-08	1.66E-08	5.92E-08	5.96E-08	1.67E-08	2.38E-06	2.54E-06	5.098E-06
469735.75	3765380.34	3.86E-08	5.18E-08	2.09E-08	2.41E-08	4.92E-08	9.84E-07	1.19E-06	2.362E-06
468992.07	3765409.05	2.06E-08	3.07E-07	3.59E-08	4.25E-08	3.51E-07	1.19E-06	1.09E-06	3.038E-06
469661.01	3765331.31	3.41E-08	5.75E-08	2.18E-08	2.47E-08	5.44E-08	9.49E-07	1.12E-06	2.763E-06
469095.45	3766437.99	2.15E-08	1.93E-08	1.11E-07	1.24E-07	3.10E-06	1.98E-06	1.84E-06	5.233E-06
469007.40	3766251.03	2.06E-08	2.55E-08	9.60E-08	1.09E-07	2.65E-08	2.93E-06	1.69E-06	4.897E-06
469058.41	3766320.72	2.09E-08	2.24E-08	1.02E-07	1.15E-07	2.31E-08	3.03E-06	1.74E-06	5.057E-06
469134.83	3766586.12	2.02E-08	1.70E-08	1.12E-07	1.24E-07	1.73E-08	3.10E-06	2.00E-06	5.392E-06
469566.17	3765288.49	2.99E-08	6.67E-08	2.25E-08	2.55E-08	6.28E-08	9.20E-07	1.06E-06	2.183E-06
468906.99	3765652.54	2.05E-08	9.21E-08	5.97E-08	7.08E-08	9.99E-08	1.79E-06	1.35E-06	3.484E-06
468974.06	3765489.97	2.04E-08	2.52E-07	3.74E-08	4.43E-08	2.83E-07	1.21E-06	1.10E-06	2.951E-06
469469.20	3765265.32	2.70E-08	8.36E-08	2.30E-08	2.61E-08	7.83E-08	9.07E-07	1.02E-06	2.160E-06
468939.29	3765551.54	2.04E-08	1.61E-07	4.34E-08	5.10E-08	1.76E-07	1.30E-06	1.14E-06	2.889E-06
468977.35	3766184.47	2.17E-08	3.03E-08	8.77E-08	1.00E-07	3.16E-08	2.70E-06	1.63E-06	4.603E-06
468974.36	3766166.27	2.15E-08	3.12E-08	8.70E-08	9.94E-08	3.26E-08	2.68E-06	1.62E-06	4.572E-06
469759.68	3765394.24	3.98E-08	4.98E-08	2.02E-08	2.34E-08	4.75E-08	9.89E-07	1.21E-06	2.380E-06
469115.98	3766482.19	2.21E-08	1.83E-08	1.15E-07	1.29E-07	1.87E-08	3.07E-06	1.85E-06	5.224E-06
469144.17	3766602.06	2.00E-08	1.69E-08	1.15E-07	1.28E-07	1.73E-08	3.02E-06	1.98E-06	5.301E-06
469258.95	3766681.62	2.01E-08	1.66E-08	1.95E-07	2.25E-07	1.70E-08	2.88E-06	2.04E-06	5.395E-06
469812.90	3765441.15	4.46E-08	4.67E-08	1.95E-08	2.19E-08	4.46E-08	1.02E-06	1.28E-06	2.480E-06
469923.76	3765911.90	2.08E-08	1.24E-07	5.44E-08	6.44E-08	1.36E-07	1.40E-06	1.19E-06	2.996E-06
468931.14	3766030.67	2.11E-08	4.09E-08	7.88E-08	9.13E-08	4.32E-08	2.41E-06	1.53E-06	4.216E-06
468956.06	3765510.90	2.02E-08	1.99E-07	3.96E-08	4.67E-08	2.20E-07	1.24E-06	1.11E-06	2.869E-06
468927.97	3766012.82	2.09E-08	4.20E-08	7.78E-08	9.03E-08	4.45E-08	2.39E-06	1.52E-06	4.179E-06
468905.75	3765632.82	2.03E-08	9.90E-08	5.76E-08	6.82E-08	1.07E-07	1.69E-06	1.29E-06	3.331E-06
468934.31	3766048.52	2.11E-08	3.93E-08	7.93E-08	9.17E-08	4.15E-08	2.43E-06	1.53E-06	4.237E-06
469926.19	3766641.59	2.77E-08	1.63E-08	5.70E-08	5.71E-08	1.64E-08	2.28E-06	2.51E-06	4.965E-06
469847.56	3765493.27	5.11E-08	4.66E-08	1.94E-08	2.17E-08	4.46E-08	1.08E-06	1.38E-06	2.642E-06
469030.40	3766269.24	2.03E-08	2.44E-08	9.50E-08	1.07E-07	2.52E-08	2.88E-06	1.67E-06	4.824E-06
469125.48	3766570.19	2.03E-08	1.70E-08	1.08E-07	1.21E-07	1.74E-08	2.96E-06	2.00E-06	5.242E-06
469406.12	3765250.11	2.55E-08	1.03E-07	2.30E-08	2.63E-08	9.51E-08	8.99E-07	9.92E-07	2.164E-06
468904.29	3765864.50	2.04E-08	5.60E-08	7.04E-08	8.27E-08	6.00E-08	2.15E-06	1.45E-06	3.888E-06
469002.38	3766217.75	2.04E-08	2.72E-08	9.01E-08	1.02E-07	2.83E-08	2.77E-06	1.63E-06	4.674E-06
469783.61	3765408.14	4.11E-08	4.74E-08	1.96E-08	2.20E-08	4.52E-08	9.93E-07	1.22E-06	2.939E-06
468980.35	3766202.68	2.14E-08	2.88E-08	8.71E-08	8.98E-08	3.00E-08	2.68E-06	1.62E-06	4.564E-06
468900.25	3765835.14	2.03E-08	5.94E-08	6.87E-08	8.09E-08	6.37E-08	2.09E-06	1.43E-06	3.816E-06
468909.78	3765899.57	2.01E-08	5.16E-08	7.20E-08	8.44E-08	5.52E-08	2.22E-06	1.47E-06	3.699E-06
469515.01	3765268.60	2.77E-08	7.33E-08	2.25E-08	2.56E-08	6.90E-08	8.99E-07	1.02E-06	2.134E-06
469008.84	3765328.40	2.03E-08	3.92E-07	3.32E-08	3.91E-08	1.64E-07	1.12E-06	1.05E-06	3.255E-06
468922.52	3765592.18	2.04E-08	1.31E-07	5.14E-08	6.06E-08	1.43E-07	1.36E-06	1.17E-06	2.927E-06
469706.46	3765347.33	3.54E-08	5.25E-08	2.11E-08	2.39E-08	4.98E-08	9.49E-07	1.14E-06	2.267E-06
468924.80	3765994.97	2.05E-08	4.28E-08	7.64E-08	8.88E-08	4.54E-08	2.36E-06	1.50E-06	4.134E-06
468897.66	3765811.48	2.01E-08	6.19E-08	6.73E-08	7.93E-08	6.65E-08	2.05E-06	1.42E-06	3.762E-06
469026.85	3765407.48	2.03E-08	5.15E-07	3.18E-08	3.75E-08	6.42E-07	1.09E-06	1.04E-06	3.382E-06
469241.60	3766675.27	1.99E-08	1.56E-08	1.65E-07	1.87E-07	1.58E-08	2.87E-06	2.02E-06	5.290E-06
468896.42	3765791.76	2.00E-08	6.41E-08	6.62E-08	7.81E-08	6.90E-08	2.02E-06	1.41E-06	3.725E-06
469433.11	3765250.16	2.59E-08	9.29E-08	2.27E-08	2.59E-08	8.66E-08	8.95E-07	9.93E-07	2.142E-06
469909.05	3766649.91	2.70E-08	1.63E-08	5.53E-08	5.58E-08	1.64E-08	2.28E-06	2.47E-06	4.914E-06
468895.18	3765772.05	1.99E-08	6.63E-08	6.50E-08	7.68E-08	7.14E-08	1.99E-06	1.40E-06	3.687E-06
468990.83	3765449.33	2.01E-08	3.17E-07	3.44E-08	4.06E-08	3.64E-07	1.15E-06	1.06E-06	2.985E-06
469044.86	3765386.55	2.04E-08	7.39E-07	3.07E-08	3.61E-08	1.02E-06	1.07E-06	1.03E-06	3.946E-06
469153.51	3766618.00	1.97E-08	1.65E-08	1.16E-07	1.28E-07	1.69E-08	2.94E-06	1.95E-06	5.195E-06
468921.28	3765572.47	2.01E-08	1.37E-07	4.86E-08	5.69E-08	1.49E-07	1.31E-06	1.14E-06	2.859E-06
468937.48	3766066.37	2.08E-08	3.73E-08	7.93E-08	9.14E-08	3.93E-08	2.44E-06	1.53E-06	4.238E-06
469631.95	3765303.99	3.15E-08	5.95E-08	2.19E-08	2.47E-08	5.63E-08	9.18E-07	1.07E-06	2.194E-06
468935.05	3765531.82	2.00E-08	1.67E-07	4.13E-08	4.85E-08	1.82E-07	1.25E-06	1.11E-06	2.822E-06
468893.94	3765752.33	1.98E-08	6.87E-08	6.38E-08	7.55E-08	7.40E-08	1.95E-06	1.39E-06	3.645E-06
469730.39	3765361.23	3.66E-08	5.08E-08	2.07E-08	2.37E-08	4.83E-08	9.56E-07	1.15E-06	2.289E-06
469033.39	3766287.44	2.02E-08	2.35E-08	9.47E-08	1.07E-07	2.43E-08	2.86E-06	1.66E-06	4.793E-06
468920.77	3765969.70	2.00E-08	4.43E-08	7.49E-08	8.71E-08	4.71E-08	2.32E-06	1.49E-06	4.085E-06
468904.51	3765613.11	2.00E-08	1.06E-07	5.50E-08	6.49E-08	1.15E-07	1.59E-06	1.25E-06	3.197E-06
469064.11	3766354.49	2.06E-08	2.09E-08	1.00E-07	1.12E-07	1.25E-08	2.93E-06	1.70E-06	4.906E-06
469584.53	3765282.58	2.96E-08	6.23E-08	2.20E-08	2.49E-08	5.87E-08	9.03E-07	1.04E-06	2.141E-06
468972.83	3765470.26	2.00E-08	2.64E-07	3.56E-08	4.20E-08	2.97E-07	1.17E-06	1.07E-06	2.899E-06
468892.70	3765732.61	1.93E-08	6.92E-08	6.23E-08	7.37E-08	7.46E-08	1.93E-06	1.39E-06	3.619E-06
469679.37	3765325.40	3.35E-08	5.43E-08	2.12E-08	2.40E-08	5.14E-08	9.30E-07	1.10E-06	2.215E-06
469224.25	3766668.92	1.98E-08	1.56E-08	1.48E-07	1.67E-07	1.59E-08	2.86E-06	1.99E-06	5.210E-06
469754.32	3765375.13	3.78E-08	4.90E-08	2.00E-08	2.32E-08	4.66E-08	9.62E-07	1.17E-06	2.307E-06
469807.54	3765422.04	4.22E-08	4.59E-08	1.92E-08	2.15E-08	4.37E-08	9.95E-07	1.24E-06	2.405E-06
469005.37	3766235.96	2.01E-08	2.59E-08	8.93E-08	1.01E-07	2.69E-08	2.74E-06	1.62E-06	4.619E-06
469915.27	3765934.63	1.96E-08	4.62E-08	7.24E-08	8.45E-08	4.92E-08	2.27E-06	1.47E-06	4.033E-06
468891.40	3765121.90	1.91E-08	7.00E-08	6.08E-08	7.19E-08	7.55E-08	1.91E-06	1.38E-06	3.587E-06
468180.55	3766656.22	1.94E-08	1.61E-08	1.29E-07	1.43E-07	1.65E-08	2.81E-06	1.93E-06	5.064E-06
469842.20	3765474.16	4.83E-08	4.59E-08	1.92E-08	2.14E-08	4.38E-08	1.05E-06	1.33E-06	2.563E-06
468991.91	3766658.22	2.62E-08	1.62E-08	5.67E-08	5.71E-08	1.63E-08	2.26E-06	2.40E-06	4.834E-06
469036.39	3766305.65	2.01E-08	2.27E-08	9.43E-08	1.06E-07	2.34E-08	2.83E-06	1.65E-06	4.749E-06
468954.82	3765491.18	1.98E-08	2.10E-07	3.76E-08	4.43E-08	2.32E-07	1.19E-06	1.08E-06	2.813E-06
468940.65	3766084.22	2.03E-08	3.53E-08	7.89E-08	9.07E-08	3.71E-08	2.44E-06	1.52E-06	4.221E-06
469206.90	3766662.57	1.96E-08	1.58E-08	1.37E-07	1.53E-07	1.61E-08	2.84E-06	1.96E-06	5.136E-06
469127.00	3766536.89	2.10E-08	1.73E-08	1.13E-07	1.26E-07	1.77E-08	2.86E-06	1.81E-06	4.972E-06
469162.86	3766633.94	1.95E-08	1.63E-08	1.16E-07	1.29E-07	1.66E-08	2.86E-06	1.92E-06	5.085E-06
468920.04	3765552.75	1.97E-08	1.41E-07	4.54E-08	5.14E-08	1.53E-07	1.27E-06	1.11E-06	2.787E-06
469778.25	3765389.03	3.89E-08	4.70E-08	1.93E-08	2.20E-08	4.50E-08	9.66E-07	1.18E-06	2.322E-06
469874.78	3766666.54	2.57E-08	1.61E-08	5.85E-08	5.88E-08	1.62E-08	2.25E-06	2.37E-06	4.799E-06
469123.31	3766602.37	1.95E-08	1.65E-08	1.02E-07	1.13E-07	1.69E-08	2.88E-06	1.90E-06	5.043E-06
468890.22	3765693.18	1.89E-08	6.92E-08	5.89E-08	6.96E-08	7.47E-08	1.89E-06	1.38E-06	3.555E-06
468943.82	3766102.07	2.00E-08	3.37E-08	7.88E-08	9.04				

469446.92	3765236.70	2.52E-08	8.43E-08	2.21E-08	2.51E-08	7.87E-08	8.69E-07	9.66E-07	2.070E-06
469014.36	3766290.58	1.98E-08	2.32E-08	8.82E-08	9.92E-08	2.40E-08	2.67E-06	1.59E-06	4.518E-06
468950.15	3766137.77	1.96E-08	3.10E-08	7.86E-08	8.98E-08	3.24E-08	2.44E-06	1.50E-06	4.194E-06
469697.72	3765319.49	3.29E-08	5.16E-08	2.08E-08	2.35E-08	4.90E-08	9.10E-07	1.08E-06	2.167E-06
468918.80	3765533.03	1.94E-08	1.42E-07	4.52E-08	5.27E-08	1.55E-07	1.23E-06	1.08E-06	2.721E-06
469526.09	3765250.61	2.69E-08	6.87E-08	2.17E-08	2.46E-08	6.48E-08	8.71E-07	9.86E-07	2.064E-06
469772.89	3765369.92	3.70E-08	4.65E-08	1.94E-08	2.25E-08	4.43E-08	9.40E-07	1.14E-06	2.254E-06
468986.34	3766239.09	1.98E-08	2.56E-08	8.37E-08	9.45E-08	2.65E-08	2.57E-06	1.55E-06	4.371E-06
468935.17	3765492.39	1.92E-08	1.79E-07	3.74E-08	4.39E-08	1.96E-07	1.17E-06	1.05E-06	2.698E-06
469907.53	3766669.88	2.55E-08	1.58E-08	5.44E-08	5.48E-08	1.59E-08	2.15E-06	2.30E-06	4.616E-06
469141.58	3766633.53	1.90E-08	1.59E-08	1.02E-07	1.13E-07	1.62E-08	2.74E-06	1.85E-06	4.861E-06
469831.47	3765435.94	4.33E-08	4.44E-08	1.87E-08	2.10E-08	4.24E-08	9.96E-07	1.25E-06	2.414E-06
469017.36	3766308.78	1.99E-08	2.24E-08	8.78E-08	9.86E-08	2.31E-08	2.65E-06	1.58E-06	4.486E-06
468874.69	3765753.54	1.86E-08	6.15E-08	6.02E-08	7.07E-08	6.60E-08	1.88E-06	1.34E-06	3.493E-06
468881.13	3765837.53	1.88E-08	5.29E-08	6.40E-08	7.49E-08	5.65E-08	2.00E-06	1.37E-06	3.631E-06
468885.23	3765867.48	1.88E-08	5.00E-08	6.53E-08	7.63E-08	5.33E-08	2.04E-06	1.38E-06	3.685E-06
468884.02	3765594.60	1.91E-08	9.60E-08	5.22E-08	6.14E-08	1.04E-07	1.54E-06	1.20E-06	3.078E-06
468873.45	3765733.82	1.85E-08	6.33E-08	5.91E-08	6.95E-08	6.79E-08	1.85E-06	1.33E-06	3.459E-06
469045.09	3766357.70	1.98E-08	2.04E-08	9.19E-08	1.03E-07	2.10E-08	2.71E-06	1.61E-06	4.573E-06
468875.93	3765773.26	1.85E-08	5.82E-08	6.08E-08	7.14E-08	6.24E-08	1.91E-06	1.35E-06	3.532E-06
468878.41	3765812.69	1.86E-08	5.46E-08	6.26E-08	7.33E-08	5.84E-08	1.96E-06	1.36E-06	3.589E-06
469890.50	3766678.14	2.50E-08	1.57E-08	5.60E-08	5.64E-08	1.58E-08	2.15E-06	2.26E-06	4.580E-06
469796.82	3765383.82	3.80E-08	4.42E-08	1.86E-08	2.09E-08	4.21E-08	9.43E-07	1.16E-06	2.264E-06
468877.17	3765792.97	1.84E-08	5.58E-08	6.16E-08	7.21E-08	5.98E-08	1.94E-06	1.35E-06	3.562E-06
468955.33	3766169.40	1.93E-08	2.88E-08	7.84E-08	8.92E-08	3.01E-08	2.43E-06	1.49E-06	4.170E-06
469210.71	3766683.29	1.90E-08	1.51E-08	1.26E-07	1.40E-07	1.53E-08	2.67E-06	1.88E-06	4.869E-06
469116.14	3766554.25	2.02E-08	1.68E-08	1.04E-07	1.15E-07	1.72E-08	2.67E-06	1.73E-06	4.675E-06
468902.03	3765573.68	1.94E-08	1.19E-07	4.89E-08	5.74E-08	1.29E-07	1.28E-06	1.10E-06	2.757E-06
468890.73	3765902.55	1.86E-08	4.59E-08	6.63E-08	7.72E-08	4.88E-08	2.09E-06	1.39E-06	3.737E-06
468970.35	3765430.82	1.92E-08	2.68E-07	3.32E-08	3.89E-08	3.03E-07	1.09E-06	1.01E-06	2.768E-06
468988.36	3765409.90	1.92E-08	3.40E-07	3.13E-08	3.68E-08	3.94E-07	1.07E-06	1.00E-06	2.891E-06
469496.82	3765238.40	2.58E-08	7.28E-08	2.16E-08	2.45E-08	6.84E-08	8.59E-07	9.64E-07	2.036E-06
469379.76	3765223.07	2.36E-08	1.02E-07	2.21E-08	2.53E-08	9.41E-08	8.60E-07	9.40E-07	2.067E-06
469006.36	3765388.97	1.93E-08	4.30E-07	3.02E-08	3.55E-08	5.17E-07	1.04E-06	9.91E-07	3.067E-06
469020.36	3766326.99	1.98E-08	2.16E-08	8.72E-08	9.78E-08	2.23E-08	2.62E-06	1.57E-06	4.446E-06
468872.21	3765714.11	1.82E-08	6.24E-08	5.73E-08	6.74E-08	6.70E-08	1.84E-06	1.33E-06	3.435E-06
469024.37	3765368.05	1.94E-08	5.80E-07	2.91E-08	3.42E-08	7.47E-07	1.02E-06	9.79E-07	3.409E-06
469098.22	3766487.79	2.11E-08	1.73E-08	1.00E-07	1.12E-07	1.77E-08	2.72E-06	1.69E-06	4.683E-06
469826.11	3765416.83	4.11E-08	4.36E-08	1.85E-08	2.07E-08	4.16E-08	9.70E-07	1.21E-06	2.343E-06
469406.75	3765223.12	2.40E-08	9.30E-08	1.19E-08	2.50E-08	8.63E-08	8.56E-07	9.41E-07	2.047E-06
469133.76	3766677.09	1.89E-08	1.51E-08	1.17E-07	1.30E-07	1.54E-08	2.65E-06	1.85E-06	4.803E-06
469107.81	3766504.16	2.10E-08	1.69E-08	1.17E-07	1.34E-07	1.73E-08	2.72E-06	1.72E-06	4.692E-06
468952.34	3765451.75	1.90E-08	2.26E-07	3.42E-08	4.02E-08	2.51E-07	1.11E-06	1.02E-06	2.702E-06
469743.59	3765336.91	3.40E-08	4.79E-08	2.05E-08	2.30E-08	4.57E-08	9.10E-07	1.09E-06	2.172E-06
469621.24	3765270.76	2.90E-08	5.71E-08	2.10E-08	2.37E-08	5.42E-08	8.72E-07	1.01E-06	2.065E-06
469668.66	3765292.17	3.06E-08	5.32E-08	2.08E-08	2.34E-08	5.05E-08	8.83E-07	1.04E-06	2.097E-06
468989.34	3766257.30	1.92E-08	2.43E-08	8.24E-08	9.28E-08	2.52E-08	2.52E-06	1.52E-06	4.292E-06
469150.71	3766649.10	1.88E-08	1.55E-08	1.02E-07	1.13E-07	1.58E-08	2.67E-06	1.82E-06	4.760E-06
469570.84	3765252.12	2.74E-08	6.11E-08	2.12E-08	2.39E-08	5.78E-08	8.61E-07	9.84E-07	2.037E-06
468901.71	3765972.69	1.86E-08	4.01E-08	6.87E-08	7.94E-08	4.24E-08	2.17E-06	1.40E-06	3.815E-06
468908.98	3766016.19	1.88E-08	3.73E-08	7.04E-08	8.11E-08	3.94E-08	2.21E-06	1.41E-06	3.865E-06
469973.95	3766656.88	2.64E-08	1.63E-08	6.06E-08	6.10E-08	1.66E-08	2.05E-06	2.28E-06	4.513E-06
469042.38	3765347.12	1.94E-08	8.87E-07	2.81E-08	3.29E-08	1.33E-06	9.95E-07	9.65E-07	4.261E-06
469433.74	3765223.18	2.44E-08	8.52E-08	2.17E-08	2.47E-08	7.94E-08	8.52E-07	9.43E-07	2.030E-06
468958.33	3766187.61	1.91E-08	2.76E-08	7.80E-08	8.85E-08	2.88E-08	2.42E-06	1.48E-06	4.140E-06
468912.15	3766034.04	1.88E-08	3.62E-08	7.09E-08	8.16E-08	3.81E-08	2.22E-06	1.41E-06	3.881E-06
468905.81	3765998.34	1.86E-08	3.82E-08	6.94E-08	8.01E-08	4.04E-08	2.19E-06	1.40E-06	3.835E-06
469767.52	3765350.81	3.51E-08	4.61E-08	2.01E-08	2.27E-08	4.40E-08	9.15E-07	1.11E-06	2.190E-06
469542.63	3765241.67	2.66E-08	6.45E-08	2.11E-08	2.40E-08	6.09E-08	8.55E-07	9.70E-07	2.023E-06
469957.00	3766665.10	2.57E-08	1.56E-08	5.12E-08	5.15E-08	1.57E-08	2.06E-06	2.26E-06	4.475E-06
468866.01	3765615.53	1.80E-08	7.64E-08	5.22E-08	6.14E-08	8.22E-08	1.66E-06	1.26E-06	3.203E-06
468934.33	3765472.68	1.88E-08	1.85E-07	3.58E-08	4.19E-08	2.03E-07	1.13E-06	1.02E-06	2.640E-06
468896.22	3765937.62	1.83E-08	4.18E-08	6.67E-08	7.74E-08	4.44E-08	2.13E-06	1.39E-06	3.761E-06
469820.75	3765397.72	3.90E-08	4.28E-08	1.82E-08	2.04E-08	4.08E-08	9.45E-07	1.17E-06	2.275E-06
468900.79	3765553.96	1.91E-08	1.23E-07	4.67E-08	5.46E-08	1.34E-07	1.24E-06	1.08E-06	2.694E-06
468882.78	3765574.89	1.88E-08	1.03E-07	4.94E-08	5.78E-08	1.11E-07	1.43E-06	1.14E-06	2.919E-06
469716.08	3765313.58	3.22E-08	4.93E-08	2.04E-08	2.30E-08	4.69E-08	8.91E-07	1.06E-06	2.120E-06
469023.33	3766344.64	1.96E-08	2.09E-08	8.63E-08	9.66E-08	2.15E-08	2.59E-06	1.56E-06	4.387E-06
468917.56	3765513.32	1.91E-08	1.42E-07	4.47E-08	5.22E-08	1.55E-07	1.19E-06	1.05E-06	2.652E-06
468915.32	3766051.89	1.87E-08	3.46E-08	7.09E-08	8.15E-08	3.64E-08	2.23E-06	1.41E-06	3.877E-06
469219.08	3766705.68	1.85E-08	1.57E-08	1.28E-07	1.43E-07	1.62E-08	2.53E-06	1.81E-06	4.662E-06
469106.80	3766538.31	2.02E-08	1.67E-08	9.93E-08	1.10E-07	1.71E-08	2.63E-06	1.68E-06	4.570E-06
469791.45	3765364.71	3.61E-08	4.42E-08	1.88E-08	2.18E-08	4.22E-08	9.19E-07	1.12E-06	2.201E-06
468992.34	3766275.50	1.89E-08	2.33E-08	8.16E-08	9.18E-08	2.41E-08	2.49E-06	1.51E-06	4.242E-06
468961.32	3766705.81	1.89E-08	2.65E-08	7.75E-08	8.78E-08	2.75E-08	2.40E-06	1.47E-06	4.105E-06
469072.67	3766418.82	1.94E-08	1.82E-08	9.39E-08	1.05E-07	1.87E-08	2.65E-06	1.59E-06	4.501E-06
469940.06	3766673.32	2.50E-08	1.55E-08	5.06E-08	5.12E-08	1.56E-08	2.04E-06	2.21E-06	4.409E-06
468864.78	3765595.81	1.84E-08	8.42E-08	5.09E-08	5.98E-08	9.06E-08	1.56E-06	1.20E-06	3.061E-06
469105.05	3766571.22	1.96E-08	1.66E-08	9.64E-08	1.07E-07	1.70E-08	2.54E-06	1.68E-06	4.474E-06
468916.32	3765493.60	1.87E-08	1.50E-07	3.99E-08	4.51E-08	1.63E-07	1.15E-06	1.03E-06	2.592E-06
468867.25	3765635.24	1.79E-08	6.57E-08	5.17E-08	6.09E-08	7.07E-08	1.72E-06	1.29E-06	3.276E-06
469460.73	3765223.24	2.44E-08	7.82E-08	2.14E-08	2.43E-08	7.32E-08	8.42E-07	9.36E-07	1.999E-06
469108.92	3766613.71	1.86E-08	1.58E-08	8.99E-08	9.92E-08	1.61E-08	2.58E-06	1.80E-06	4.622E-06
468918.49	3766069.74	1.85E-08	3.31E-08	7.09E-08	8.12E-08	3.48E-08	2.23E-06	1.40E-06	3.869E-06
469923.11	3766681.55	2.46E-08	1.54E-08	5.21E-08	5.27E-08	1.56E-08	2.05E-06	2.18E-06	4.393E-06
469097.45	3766522.37	2.03E-08	1.67E-08	9.64E-08	1.07E-07	1.71E-08	2.61E-06	1.65E-06	4.523E-06
469050.58	3766390.23	1.93E-08	1.91E-08	8.95E-08	9.98E-08	1.96E-08	2.60E-06	1.56E-06	4.411E-06
468987.12	3765390.18	1.88E-08	3.51E-07	3.00E-08	3.51E-08	4.10E-07	1.03E-06	9.72E-07	2.850E-06
468969.11	3765411.11	1.87E-08	2.87E-07	3.11E-08	3.64E-08	3.27E-07	1.05E-06	9.82E-07	2.737E-06
469005.12	3765369.26	1.89E-08	4.48E-07	2.90E-08	3.40				

469118.56	3766630.16	1.84E-08	1.52E-08	8.87E-08	9.78E-08	1.56E-08	2.48E-06	1.77E-06	4.487E-06
468862.30	3765556.38	1.79E-08	9.21E-08	4.77E-08	5.58E-08	9.91E-08	1.42E-06	1.13E-06	2.864E-06
469137.84	3766663.04	1.81E-08	1.49E-08	9.07E-08	9.97E-08	1.52E-08	2.51E-06	1.73E-06	4.479E-06
468924.83	3766105.44	1.80E-08	3.01E-08	7.01E-08	7.99E-08	3.15E-08	2.21E-06	1.38E-06	3.818E-06
468898.31	3765514.53	1.85E-08	1.26E-07	4.44E-08	5.17E-08	1.37E-07	1.16E-06	1.03E-06	2.564E-06
468967.31	3766242.22	1.83E-08	2.42E-08	7.59E-08	8.55E-08	2.51E-08	2.34E-06	1.44E-06	4.005E-06
469095.92	3766555.64	1.95E-08	1.63E-08	9.20E-08	1.02E-07	1.67E-08	2.48E-06	1.62E-06	4.338E-06
468998.33	3766311.91	1.84E-08	2.14E-08	7.96E-08	8.92E-08	2.41E-08	2.41E-06	1.47E-06	4.133E-06
4690810.02	3765359.50	3.53E-08	4.20E-08	1.83E-08	2.11E-08	4.02E-08	8.98E-07	1.09E-06	2.150E-06
469128.20	3766646.60	1.82E-08	1.50E-08	8.88E-08	9.78E-08	1.53E-08	2.47E-06	1.76E-06	4.462E-06
469165.38	3766686.03	1.81E-08	1.47E-08	9.72E-08	1.07E-07	1.50E-08	2.47E-06	1.74E-06	4.454E-06
469474.54	3765209.77	2.40E-08	7.31E-08	2.08E-08	2.36E-08	6.86E-08	8.23E-07	9.17E-07	1.950E-06
469554.16	3765224.43	2.57E-08	6.07E-08	2.04E-08	2.31E-08	5.74E-08	8.28E-07	9.39E-07	1.954E-06
468985.88	3765370.47	1.84E-08	3.63E-07	2.88E-08	3.37E-08	4.27E-07	9.99E-07	9.45E-07	2.815E-06
468967.87	3765391.39	1.83E-08	2.95E-07	2.97E-08	3.48E-08	3.38E-07	1.02E-06	9.54E-07	2.689E-06
468949.86	3765412.32	1.82E-08	2.48E-07	3.08E-08	3.61E-08	2.77E-07	1.04E-06	9.62E-07	2.612E-06
469003.88	3765349.54	1.84E-08	4.66E-07	2.80E-08	3.27E-08	5.75E-07	9.78E-07	9.36E-07	3.034E-06
468868.49	3765654.96	1.74E-08	5.66E-08	4.99E-08	5.85E-08	6.09E-08	1.72E-06	1.28E-06	3.235E-06
468931.85	3765433.24	1.81E-08	1.95E-07	3.28E-08	3.83E-08	2.14E-07	1.06E-06	9.71E-07	2.529E-06
469657.96	3765258.93	2.83E-08	5.14E-08	1.99E-08	2.24E-08	4.87E-08	8.41E-07	9.77E-07	1.989E-06
469053.63	3766421.80	1.89E-08	1.79E-08	8.63E-08	9.61E-08	1.84E-08	2.48E-06	1.52E-06	4.235E-06
468880.30	3765535.45	1.82E-08	1.10E-07	4.55E-08	5.30E-08	1.19E-07	1.23E-06	1.02E-06	2.602E-06
469298.00	3766123.29	1.78E-08	2.88E-08	6.97E-08	7.94E-08	3.01E-08	2.19E-06	1.37E-06	3.792E-06
469353.39	3765196.03	2.20E-08	1.04E-07	2.13E-08	2.43E-08	8.22E-07	9.82E-07	9.92E-07	1.982E-06
468861.05	3765336.66	1.77E-08	9.53E-08	4.61E-08	5.38E-08	1.03E-07	1.10E-06	1.10E-06	2.789E-06
469380.38	3765196.08	2.23E-08	9.47E-08	2.11E-08	2.40E-08	8.76E-08	8.19E-07	8.94E-07	1.963E-06
469021.89	3765328.61	1.84E-08	6.56E-07	2.68E-08	3.14E-08	8.90E-07	9.54E-07	9.23E-07	3.499E-06
469524.43	3765211.47	2.49E-08	6.52E-08	2.02E-08	2.29E-08	6.13E-08	8.20E-07	9.23E-07	1.938E-06
469705.38	3765280.34	2.97E-08	4.77E-08	1.97E-08	2.21E-08	4.54E-08	8.49E-07	9.99E-07	2.013E-06
468913.84	3765454.17	1.80E-08	1.65E-07	3.41E-08	3.96E-08	1.80E-07	1.08E-06	9.75E-07	2.488E-06
469001.33	3766330.12	1.82E-08	2.07E-08	7.88E-08	8.81E-08	2.13E-08	2.38E-06	1.46E-06	4.061E-06
469088.11	3766506.43	2.02E-08	1.63E-08	9.04E-08	1.00E-07	1.67E-08	2.47E-06	1.57E-06	4.284E-06
468897.07	3765494.81	1.81E-08	1.31E-07	4.20E-08	4.87E-08	1.42E-07	1.13E-06	1.00E-06	2.509E-06
468970.31	3766260.43	1.81E-08	2.31E-08	7.49E-08	8.43E-08	2.39E-08	2.30E-06	1.42E-06	3.944E-06
469780.73	3765326.49	3.27E-08	4.34E-08	1.94E-08	2.18E-08	4.14E-08	8.71E-07	1.05E-06	2.079E-06
469434.36	3765196.20	2.31E-08	7.98E-08	2.07E-08	2.35E-08	7.45E-08	8.14E-07	8.99E-07	1.935E-06
468931.16	3766141.14	1.77E-08	2.78E-08	6.97E-08	7.92E-08	2.90E-08	2.19E-06	1.37E-06	3.780E-06
469031.67	3766404.07	1.88E-08	1.85E-08	8.19E-08	9.12E-08	1.91E-08	2.41E-06	1.49E-06	4.127E-06
468859.82	3765516.95	1.74E-08	9.70E-08	4.49E-08	5.23E-08	1.04E-07	1.34E-06	1.08E-06	2.744E-06
469039.90	3765307.69	1.84E-08	1.07E-06	2.59E-08	3.02E-08	1.86E-06	9.30E-07	9.09E-07	4.845E-06
469086.78	3766540.90	1.90E-08	1.61E-08	8.90E-08	9.75E-08	1.65E-06	2.42E-06	1.57E-06	4.224E-06
469407.37	3765196.14	2.24E-08	8.62E-08	3.76E-08	4.37E-08	8.02E-08	8.11E-07	8.71E-07	1.934E-06
469804.66	3765340.39	3.36E-08	4.18E-08	1.91E-08	2.15E-08	3.99E-08	8.75E-07	1.06E-06	2.092E-06
469752.79	3765301.75	3.10E-08	4.41E-08	1.92E-08	2.16E-08	4.20E-08	8.54E-07	1.02E-06	2.029E-06
469004.32	3766347.85	1.81E-08	2.00E-08	7.80E-08	8.72E-08	2.06E-08	2.35E-06	1.44E-06	4.013E-06
468895.83	3765475.10	1.78E-08	1.35E-07	3.99E-08	4.61E-08	1.47E-07	1.09E-06	9.77E-07	2.454E-06
469187.61	3766713.49	1.77E-08	1.43E-08	9.80E-08	1.07E-07	1.45E-08	2.36E-06	1.70E-06	4.310E-06
469461.35	3765196.25	2.33E-08	7.37E-08	2.05E-08	2.32E-08	6.91E-08	8.07E-07	8.96E-07	1.913E-06
469057.54	3766445.10	1.87E-08	1.73E-08	8.48E-08	9.42E-08	1.77E-08	2.42E-06	1.50E-06	4.144E-06
468973.31	3766278.63	1.78E-08	2.22E-08	7.42E-08	8.33E-08	2.30E-08	2.27E-06	1.40E-06	3.895E-06
469599.00	3765226.09	2.59E-08	5.44E-08	2.00E-08	2.25E-08	5.17E-08	8.16E-07	9.32E-07	1.922E-06
468966.63	3765371.68	1.79E-08	3.03E-07	2.85E-08	3.34E-08	3.48E-07	9.86E-07	9.28E-07	2.645E-06
468948.62	3765392.60	1.78E-08	2.53E-07	2.94E-08	3.44E-08	2.85E-07	1.01E-06	9.36E-07	2.561E-06
468984.64	3765350.75	1.80E-08	3.74E-07	2.77E-08	3.24E-08	4.44E-07	9.67E-07	9.20E-07	2.783E-06
468869.73	3765674.68	1.70E-08	5.18E-08	4.90E-08	5.74E-08	5.57E-08	1.71E-06	1.26E-06	3.197E-06
468879.07	3765515.74	1.79E-08	1.15E-07	4.30E-08	5.00E-08	1.24E-07	1.14E-06	1.04E-06	2.487E-06
469570.24	3765214.75	2.53E-08	5.79E-08	1.99E-08	2.25E-08	5.48E-08	8.11E-07	9.22E-07	1.913E-06
469488.35	3765196.31	2.37E-08	6.84E-08	2.02E-08	2.29E-08	6.43E-08	8.06E-07	8.99E-07	1.904E-06
469361.01	3765413.53	2.16E-07	1.77E-08	3.15E-08	3.58E-08	2.39E-07	1.03E-06	1.44E-07	2.508E-06
469078.77	3766490.50	1.94E-08	1.63E-08	8.70E-08	9.65E-08	1.67E-08	2.40E-06	1.51E-06	4.149E-06
469676.32	3765253.02	2.80E-08	4.82E-08	1.93E-08	2.17E-08	4.57E-08	8.26E-07	9.62E-07	1.951E-06
469002.65	3765329.82	1.80E-08	4.89E-07	2.67E-08	3.12E-08	6.15E-07	9.45E-07	9.08E-07	3.033E-06
469170.11	3766707.09	1.76E-08	1.42E-08	9.12E-08	9.99E-08	1.44E-08	2.34E-06	1.67E-06	4.253E-06
468912.60	3765434.45	1.76E-08	1.70E-07	3.25E-08	3.78E-08	1.86E-07	1.04E-06	9.50E-07	2.437E-06
468936.30	3766172.53	1.74E-08	2.59E-08	6.91E-08	7.83E-08	2.70E-08	2.16E-06	1.35E-06	3.729E-06
468877.83	3765496.02	1.76E-08	1.21E-07	4.03E-08	4.66E-08	1.30E-07	1.10E-06	9.76E-07	2.435E-06
468976.30	3766296.84	1.77E-08	2.15E-08	7.38E-08	8.27E-08	2.22E-08	2.26E-06	1.40E-06	3.869E-06
469034.59	3766424.78	1.86E-08	1.78E-08	8.03E-08	8.92E-08	1.83E-08	2.35E-06	1.46E-06	4.033E-06
469340.21	3765182.51	2.12E-08	1.05E-07	2.08E-08	2.37E-08	9.62E-08	8.04E-07	8.69E-07	1.940E-06
469089.64	3766580.83	1.88E-08	1.57E-08	8.48E-08	9.37E-08	1.60E-08	2.31E-06	1.54E-06	4.075E-06
469723.73	3765274.43	2.93E-08	4.47E-08	1.90E-08	2.14E-08	4.25E-08	8.33E-07	9.81E-07	1.971E-06
469367.20	3765182.56	2.15E-08	9.53E-08	2.06E-08	2.35E-08	8.80E-08	8.00E-07	8.70E-07	1.920E-06
469020.65	3765308.90	1.80E-08	6.98E-07	2.57E-08	3.00E-08	9.87E-07	9.22E-07	8.95E-07	3.575E-06
468894.60	3765455.38	1.75E-08	1.38E-07	3.76E-08	4.18E-08	1.59E-07	1.06E-06	9.53E-07	2.395E-06
469421.18	3765182.68	2.23E-08	8.03E-08	2.03E-08	2.30E-08	7.49E-08	7.96E-07	8.76E-07	1.992E-06
469799.30	3765321.28	3.20E-08	4.12E-08	1.88E-08	2.11E-08	3.93E-08	8.53E-07	1.03E-06	2.033E-06
468939.30	3766190.74	1.72E-08	2.49E-08	6.87E-08	7.77E-08	2.59E-08	2.14E-06	1.34E-06	3.698E-06
469537.48	3765196.75	2.43E-08	6.00E-08	1.95E-08	2.21E-08	5.64E-08	7.98E-07	8.99E-07	1.880E-06
469009.81	3766380.38	1.80E-08	1.88E-08	7.65E-08	8.52E-08	1.94E-08	2.28E-06	1.42E-06	3.519E-06
469448.17	3765182.73	2.26E-08	7.42E-08	2.01E-08	2.28E-08	6.95E-08	7.94E-07	8.78E-07	1.881E-06
469394.19	3765182.62	2.17E-08	8.67E-08	2.04E-08	2.32E-08	8.05E-08	7.94E-07	8.68E-07	1.895E-06
468979.30	3766315.04	1.75E-08	2.07E-08	7.30E-08	8.17E-08	2.14E-08	2.22E-06	1.38E-06	3.819E-06
469152.62	3766700.69	1.74E-08	1.38E-08	8.33E-08	9.11E-08	1.41E-08	2.32E-06	1.65E-06	4.185E-06
468876.59	3765476.31	1.73E-08	1.23E-07	3.83E-08	4.29E-08	1.32E-07	1.07E-06	9.53E-07	2.378E-06
469475.16	3765182.79	2.30E-08	6.88E-08	1.99E-08	2.26E-08	6.47E-08	7.90E-07	8.79E-07	1.868E-06
468947.38	3765372.89	1.74E-08	2.58E-07	2.83E-08	3.30E-08	2.91E-07	9.74E-07	9.11E-07	2.513E-06
468965.39	3765351.96	1.75E-08	3.10E-07	2.75E-08	3.21E-08	3.58E-07	9.56E-07	9.04E-07	2.604E-06
468942.29	3766208.94	1.71E-08	2.41E-08	6.86E-08	7.74E-08	2.50E-08	2.13E-06	1.33E-06	3.678E-06
468929.37	3765393.81	1.73E-08	2.20E-07	2.94E-08	3.43E-08	2.44E-07	9.93E-07	9.19E-07	2.456E-06
469771.15	3765295.84	3.05E-08	4.14E-08	1.84E-08	2.0				

468928.13	3765374.10	1.70E-08	2.23E-07	2.83E-08	3.29E-08	2.48E-07	9.62E-07	8.95E-07	2.406E-06
469078.59	3766597.86	1.81E-08	1.52E-08	7.79E-08	8.58E-08	1.55E-08	2.16E-06	1.47E-06	3.842E-06
468946.14	3765353.17	1.71E-08	2.62E-07	2.73E-08	2.97E-07	2.97E-07	9.44E-07	8.88E-07	2.467E-06
468910.12	3765395.02	1.69E-08	1.82E-07	2.97E-08	3.45E-08	1.99E-07	9.80E-07	9.02E-07	2.343E-06
468964.15	3765332.24	1.71E-08	3.17E-07	2.64E-08	3.08E-08	3.69E-07	9.25E-07	8.79E-07	2.564E-06
469661.87	3765221.30	2.58E-08	4.67E-08	1.90E-08	2.13E-08	4.45E-08	7.89E-07	9.11E-07	1.857E-06
469488.97	3765169.33	2.26E-08	6.46E-08	1.93E-08	2.18E-08	6.06E-08	7.73E-07	8.61E-07	1.823E-06
468948.28	3766245.36	1.66E-08	2.22E-08	6.72E-08	7.55E-08	2.30E-08	2.08E-06	1.30E-06	3.585E-06
468857.34	3765477.52	1.68E-08	1.12E-07	3.79E-08	4.36E-08	1.20E-07	1.05E-06	9.31E-07	2.310E-06
469097.43	3766630.00	1.78E-08	1.48E-08	7.90E-08	8.69E-08	1.51E-08	2.12E-06	1.47E-06	3.812E-06
468892.12	3765415.95	1.68E-08	1.47E-07	3.18E-08	3.66E-08	1.60E-07	9.95E-07	9.07E-07	2.295E-06
469060.73	3766531.50	1.88E-08	1.55E-08	7.69E-08	8.50E-08	1.59E-08	2.19E-06	1.44E-06	3.840E-06
469789.51	3765289.93	2.98E-08	3.88E-08	1.71E-08	1.98E-08	3.71E-08	8.18E-07	9.77E-07	1.937E-06
468982.16	3765311.32	1.71E-08	3.99E-07	2.54E-08	2.96E-08	4.85E-07	9.05E-07	8.68E-07	2.730E-06
469059.39	3766493.33	1.79E-08	1.58E-08	7.81E-08	8.65E-08	1.62E-08	2.20E-06	1.41E-06	3.825E-06
469713.03	3765241.20	2.71E-08	4.36E-08	1.84E-08	2.07E-08	4.15E-08	7.95E-07	9.29E-07	1.875E-06
469106.86	3766646.07	1.77E-08	1.45E-08	7.90E-08	8.69E-08	1.49E-08	2.09E-06	1.47E-06	3.775E-06
469515.96	3765169.38	2.28E-08	5.94E-08	1.90E-08	2.14E-08	5.59E-08	7.69E-07	8.60E-07	1.807E-06
468874.11	3765436.87	1.67E-08	1.27E-07	3.50E-08	3.89E-08	1.37E-07	1.01E-06	9.09E-07	2.272E-06
469000.17	3765290.39	1.71E-08	5.32E-07	2.46E-08	2.87E-08	7.01E-07	8.84E-07	8.56E-07	3.044E-06
469157.05	3766721.64	1.69E-08	1.33E-08	7.81E-08	8.52E-08	1.36E-08	2.13E-06	1.59E-06	3.926E-06
469627.02	3765199.84	2.48E-08	4.93E-08	1.86E-08	2.10E-08	4.68E-08	7.76E-07	8.88E-07	1.825E-06
469015.56	3766427.76	1.74E-08	1.72E-08	7.26E-08	8.06E-08	1.76E-08	2.14E-06	1.36E-06	3.707E-06
469394.82	3765155.64	2.09E-08	8.11E-08	1.96E-08	2.23E-08	7.55E-08	7.66E-07	8.36E-07	1.821E-06
468985.128	3766263.56	1.65E-08	2.13E-08	6.66E-08	7.47E-08	2.21E-08	2.05E-06	1.29E-06	3.542E-06
469069.17	3766581.79	1.81E-08	1.51E-08	7.55E-08	8.33E-08	1.55E-08	2.13E-06	1.44E-06	3.774E-06
469421.81	3765155.69	1.12E-08	7.50E-08	1.94E-08	2.21E-08	7.01E-08	7.63E-07	7.38E-07	1.809E-06
469597.86	3765187.82	2.42E-08	4.98E-08	1.85E-08	2.09E-08	4.71E-08	7.71E-07	8.77E-07	1.809E-06
468990.79	3766383.59	1.69E-08	1.82E-08	7.00E-08	7.79E-08	1.88E-08	2.11E-06	1.33E-06	3.638E-06
469367.83	3765155.58	2.04E-08	8.79E-08	1.97E-08	2.24E-08	8.14E-08	7.65E-07	8.30E-07	1.827E-06
469448.80	3765155.75	2.16E-08	6.95E-08	1.92E-08	2.18E-08	6.52E-08	7.62E-07	8.41E-07	1.801E-06
469313.85	3765155.47	1.98E-08	1.06E-07	1.99E-08	2.27E-08	9.67E-08	7.69E-07	8.25E-07	1.859E-06
469760.45	3765262.61	2.82E-08	3.92E-08	1.70E-08	1.96E-08	3.73E-08	8.00E-07	9.45E-07	1.886E-06
468856.10	3765457.80	1.65E-08	1.15E-07	3.50E-08	3.92E-08	1.23E-07	1.02E-06	9.10E-07	2.257E-06
469018.18	3765269.47	1.71E-08	7.93E-07	2.39E-08	2.77E-08	1.24E-06	8.64E-07	8.45E-07	3.813E-06
469059.75	3766565.71	1.82E-08	1.52E-08	7.40E-08	8.16E-08	1.55E-08	2.12E-06	1.42E-06	3.743E-06
468926.89	3765354.38	1.67E-08	2.25E-07	2.74E-08	3.18E-08	2.51E-07	9.33E-07	8.73E-07	2.358E-06
469340.84	3765155.52	2.00E-08	9.54E-08	1.98E-08	2.25E-08	8.79E-08	7.64E-07	8.24E-07	1.834E-06
468908.89	3765375.31	1.66E-08	1.88E-07	2.84E-08	3.29E-08	2.06E-07	9.50E-07	8.79E-07	2.301E-06
468944.90	3765333.45	1.67E-08	2.66E-07	2.64E-08	3.06E-08	3.03E-07	9.15E-07	8.65E-07	2.422E-06
469475.79	3765155.61	2.19E-08	6.49E-08	1.93E-08	2.15E-08	6.09E-08	7.59E-07	8.42E-07	1.789E-06
469051.09	3766515.06	1.87E-08	1.55E-08	7.43E-08	8.21E-08	1.59E-08	2.12E-06	1.39E-06	3.504E-06
468890.88	3765396.23	1.65E-08	1.53E-07	3.01E-08	3.47E-08	1.66E-07	9.65E-07	8.84E-07	2.250E-06
468962.91	3765312.53	1.67E-08	3.24E-07	2.54E-08	2.95E-08	3.80E-07	8.96E-07	8.55E-07	2.526E-06
469679.66	3765214.45	2.54E-08	4.44E-08	1.85E-08	2.08E-08	4.24E-08	7.74E-07	8.95E-07	1.821E-06
469565.21	3765170.00	2.32E-08	5.16E-08	1.84E-08	2.08E-08	4.87E-08	7.59E-07	8.56E-07	1.777E-06
469502.78	3765155.86	2.21E-08	5.95E-08	1.87E-08	2.12E-08	5.59E-08	7.55E-07	8.41E-07	1.774E-06
468872.87	3765417.16	1.64E-08	1.29E-07	3.30E-08	3.70E-08	1.40E-07	9.78E-07	8.88E-07	2.221E-06
469139.91	3766715.37	1.67E-08	1.33E-08	7.38E-08	8.05E-08	1.35E-08	2.05E-06	1.56E-06	3.805E-06
468980.92	3765291.60	1.67E-08	4.10E-07	2.45E-08	2.85E-08	5.06E-07	8.76E-07	8.44E-07	2.706E-06
469731.39	3765235.28	2.66E-08	4.14E-08	1.80E-08	2.02E-08	3.95E-08	7.80E-07	9.13E-07	1.838E-06
468954.28	3766281.77	1.61E-08	2.04E-08	6.53E-08	7.32E-08	2.11E-08	2.01E-06	1.26E-06	3.466E-06
469019.63	3766452.21	1.71E-08	1.64E-08	7.09E-08	7.85E-08	1.69E-08	2.08E-06	1.33E-06	3.614E-06
469381.64	3765142.12	2.03E-08	8.13E-08	1.93E-08	2.19E-08	7.56E-08	7.52E-07	8.19E-07	1.789E-06
469408.63	3765142.17	2.07E-08	7.51E-08	1.91E-08	2.17E-08	7.01E-08	7.51E-07	8.22E-07	1.780E-06
468854.86	3765438.08	1.62E-08	1.17E-07	3.31E-08	3.73E-08	1.25E-07	9.89E-07	8.89E-07	2.206E-06
469643.67	3765191.10	2.44E-08	4.57E-08	1.80E-08	2.03E-08	4.33E-08	7.61E-07	8.72E-07	1.785E-06
469354.65	3765142.06	1.99E-08	8.83E-08	1.93E-08	2.17E-08	8.17E-08	7.51E-07	8.13E-07	1.795E-06
468995.08	3765270.68	1.67E-08	5.54E-07	2.38E-08	2.56E-08	7.50E-07	8.56E-07	8.36E-07	3.005E-06
469435.62	3765142.23	2.09E-08	6.97E-08	1.89E-08	2.15E-08	6.54E-08	7.48E-07	8.23E-07	1.767E-06
469529.77	3765155.92	2.23E-08	5.48E-08	1.84E-08	2.08E-08	5.16E-08	7.50E-07	8.40E-07	1.758E-06
469050.32	3766549.64	1.81E-08	1.50E-08	7.11E-08	7.83E-08	1.53E-08	2.05E-06	1.37E-06	3.621E-06
468925.65	3765334.66	1.63E-08	2.27E-07	2.65E-08	3.07E-08	2.54E-07	9.06E-07	8.51E-07	2.311E-06
468907.65	3765355.59	1.62E-08	1.95E-07	2.72E-08	3.15E-08	2.16E-07	9.21E-07	8.57E-07	2.263E-06
469462.61	3765142.29	2.12E-08	6.50E-08	1.87E-08	2.12E-08	6.09E-08	7.45E-07	8.24E-07	1.756E-06
469778.80	3765256.69	2.77E-08	3.72E-08	1.65E-08	1.91E-08	3.55E-08	7.83E-07	9.27E-07	1.846E-06
469669.99	3765198.40	2.46E-08	4.50E-08	1.81E-08	2.03E-08	4.28E-08	7.60E-07	8.75E-07	1.785E-06
468889.64	3765376.52	1.62E-08	1.57E-07	2.87E-08	3.32E-08	1.71E-07	9.36E-07	8.63E-07	2.205E-06
469327.65	3765142.00	1.94E-08	9.57E-08	1.94E-08	2.21E-08	8.81E-08	7.49E-07	8.06E-07	1.799E-06
468943.66	3765313.74	1.63E-08	2.70E-07	2.53E-08	2.94E-08	3.09E-07	8.87E-07	8.42E-07	2.378E-06
469116.28	3766662.15	1.73E-08	1.38E-08	7.61E-08	8.34E-08	1.41E-08	1.99E-06	1.41E-06	3.604E-06
469300.66	3765141.95	1.91E-08	1.05E-07	1.95E-08	2.22E-08	9.64E-08	7.51E-07	8.03E-07	1.817E-06
468993.27	3766407.73	1.64E-08	1.72E-08	7.49E-08	8.74E-08	1.77E-08	2.02E-06	1.29E-06	3.499E-06
469016.94	3765249.75	1.67E-08	8.60E-07	2.31E-08	2.67E-08	1.44E-06	8.37E-07	8.21E-07	4.025E-06
468871.63	3765397.44	1.61E-08	1.31E-07	3.13E-08	3.53E-08	1.42E-07	9.50E-07	8.67E-07	2.172E-06
469076.59	3766630.34	1.72E-08	1.43E-08	7.09E-08	7.78E-08	1.46E-08	1.98E-06	1.38E-06	3.557E-06
469489.60	3765142.34	2.15E-08	6.00E-08	1.85E-08	2.09E-08	5.63E-08	7.41E-07	8.23E-07	1.742E-06
469609.96	3765171.52	2.34E-08	4.62E-08	1.78E-08	2.01E-08	4.37E-08	7.49E-07	8.51E-07	1.751E-06
469067.36	3766614.59	1.73E-08	1.45E-08	7.03E-08	7.73E-08	1.48E-08	1.99E-06	1.38E-06	3.564E-06
469040.90	3766533.57	1.82E-08	1.51E-08	6.97E-08	7.69E-08	1.55E-08	2.02E-06	1.35E-06	3.565E-06
468961.67	3765292.81	1.63E-08	3.29E-07	2.43E-08	2.83E-08	3.90E-07	8.68E-07	8.32E-07	2.489E-06
468957.27	3766299.97	1.57E-08	1.95E-08	6.41E-08	7.16E-08	2.01E-08	1.96E-06	1.24E-06	3.388E-06
469031.81	3766482.17	1.69E-08	1.56E-08	7.01E-08	7.75E-08	1.60E-08	2.03E-06	1.31E-06	3.541E-06
469058.13	3766598.84	1.74E-08	1.46E-08	6.95E-08	7.64E-08	1.49E-08	2.00E-06	1.37E-06	3.554E-06
468853.62	3765418.37	1.59E-08	1.18E-07	3.14E-08	3.58E-08	1.27E-07	9.61E-07	8.68E-07	2.158E-06
469749.74	3765229.37	2.61E-08	3.94E-08	1.76E-08	1.97E-08	3.76E-08	7.65E-07	8.96E-07	1.802E-06
469368.45	3765128.60	1.98E-08	8.12E-08	1.90E-08	2.15E-08	7.55E-08	7.39E-07	8.02E-07	1.758E-06
469041.45	3766498.61	1.68E-08	1.52E-08	7.06E-08	7.80E-08	1.56E-08	2.02E-06	1.32E-06	3.535E-06
469395.44	3765128.65	2.01E-08	7.44E-08	1.88E-08	2.13E-08	6.93E-08	7.38E-07	8.05E-07	1.746E-06
468979.68	3765271.89	1.63E-08	4.20E-07	2.36E-08	2.7				

468978.44	3765252.17	1.60E-08	4.28E-07	2.28E-08	2.64E-08	5.45E-07	8.23E-07	7.99E-07	2.660E-06
469050.66	3765166.31	2.32E-08	4.14E-08	1.71E-08	1.93E-08	3.93E-08	7.31E-07	8.35E-07	1.707E-06
469000.68	3766455.76	1.60E-08	1.59E-08	6.44E-08	7.13E-08	1.63E-08	1.91E-06	1.24E-06	3.343E-06
469328.28	3765115.02	1.88E-08	8.82E-08	1.87E-08	2.13E-08	8.15E-08	7.24E-07	7.79E-07	1.732E-06
469436.24	3765115.25	2.00E-08	6.53E-08	1.81E-08	2.06E-08	6.13E-08	7.18E-07	7.88E-07	1.691E-06
469530.40	3765128.94	2.12E-08	5.14E-08	1.77E-08	1.99E-08	4.86E-08	7.20E-07	8.03E-07	1.682E-06
468887.16	3765337.08	1.56E-08	1.62E-07	2.65E-08	3.05E-08	1.76E-07	8.83E-07	8.21E-07	2.114E-06
468905.17	3765316.16	1.50E-08	1.98E-07	2.53E-08	2.92E-08	8.68E-07	2.19E-07	8.15E-07	2.170E-06
468960.27	3765318.18	1.50E-08	1.82E-08	6.15E-08	6.86E-08	1.88E-08	1.87E-06	1.19E-06	3.242E-06
469706.83	3765186.79	2.40E-08	3.94E-08	1.71E-08	1.92E-08	3.76E-08	7.35E-07	8.49E-07	1.721E-06
468966.28	3766354.27	1.53E-08	1.76E-08	6.20E-08	6.90E-08	1.82E-08	1.87E-06	1.20E-06	3.254E-06
468869.15	3765358.01	1.55E-08	1.36E-07	2.83E-08	3.23E-08	1.47E-07	8.96E-07	8.26E-07	2.081E-06
469278.42	3765121.54	1.81E-08	1.05E-07	1.89E-08	2.15E-08	9.62E-08	7.26E-07	7.72E-07	1.758E-06
469592.91	3765143.21	2.20E-08	4.53E-08	1.73E-08	1.96E-08	4.29E-08	7.22E-07	8.15E-07	1.684E-06
468923.18	3765295.23	1.56E-08	2.30E-07	2.44E-08	2.82E-08	2.59E-07	8.52E-07	8.07E-07	2.216E-06
469463.23	3765115.30	2.02E-08	6.01E-08	1.79E-08	2.03E-08	5.65E-08	7.15E-07	7.89E-07	1.679E-06
468963.27	3766336.38	1.51E-08	1.79E-08	6.15E-08	6.85E-08	1.84E-08	1.86E-06	1.19E-06	3.234E-06
469104.29	3766677.59	1.67E-08	1.33E-08	6.86E-08	7.50E-08	1.36E-08	1.85E-06	1.33E-06	3.369E-06
469095.06	3766661.84	1.68E-08	1.34E-08	6.82E-08	7.46E-08	1.37E-08	1.87E-06	1.32E-06	3.377E-06
468851.14	3765378.94	1.54E-08	1.21E-07	2.90E-08	3.31E-08	1.30E-07	9.08E-07	8.29E-07	2.065E-06
469735.30	3765197.65	2.44E-08	3.90E-08	1.72E-08	1.92E-08	3.73E-08	7.35E-07	8.54E-07	1.727E-06
468941.18	3765274.31	1.56E-08	2.74E-07	2.34E-08	2.71E-08	3.16E-07	8.34E-07	7.28E-07	2.289E-06
469957.39	3765128.99	2.13E-08	4.79E-08	1.74E-08	1.96E-08	4.53E-08	7.14E-07	8.01E-07	1.667E-06
469490.22	3765115.36	2.04E-08	5.58E-08	1.77E-08	2.00E-08	5.25E-08	7.12E-07	7.88E-07	1.666E-06
469030.43	3766551.59	1.74E-08	1.44E-08	6.38E-08	7.02E-08	1.48E-08	1.87E-06	1.26E-06	3.216E-06
469671.29	3765164.17	2.31E-08	3.93E-08	1.68E-08	1.90E-08	3.75E-08	7.23E-07	8.28E-07	1.685E-06
469260.39	3765118.07	1.77E-08	1.11E-07	1.88E-08	2.14E-08	1.00E-07	7.20E-07	7.63E-07	1.752E-06
468959.19	3765253.38	1.56E-08	3.36E-07	2.27E-08	2.63E-08	4.05E-07	8.16E-07	7.88E-07	2.409E-06
469369.08	3765101.61	1.89E-08	7.37E-08	1.82E-08	2.06E-08	6.86E-08	7.10E-07	7.69E-07	1.679E-06
469640.99	3765150.26	2.24E-08	4.09E-08	1.69E-08	1.90E-08	3.89E-08	7.17E-07	8.16E-07	1.671E-06
469342.09	3765101.56	1.86E-08	8.08E-08	1.83E-08	2.08E-08	7.49E-08	7.11E-07	7.67E-07	1.691E-06
469021.19	3766535.84	1.71E-08	1.46E-08	6.29E-08	6.92E-08	1.49E-08	1.85E-06	1.25E-06	3.280E-06
469396.07	3765101.67	1.92E-08	6.85E-08	1.80E-08	2.04E-08	6.41E-08	7.08E-07	7.71E-07	1.669E-06
469517.22	3765115.42	2.06E-08	5.15E-08	1.74E-08	1.97E-08	4.87E-08	7.07E-07	7.87E-07	1.652E-06
468971.77	3766386.80	1.52E-08	1.68E-08	6.10E-08	6.77E-08	1.72E-08	1.84E-06	1.18E-06	3.196E-06
469291.20	3765107.88	1.80E-08	9.67E-08	1.85E-08	2.11E-08	8.87E-08	7.13E-07	7.61E-07	1.718E-06
469697.23	3765170.84	2.33E-08	3.80E-08	1.66E-08	1.88E-08	3.62E-08	7.21E-07	8.30E-07	1.684E-06
469423.06	3765101.73	1.94E-08	6.42E-08	1.79E-08	2.02E-08	6.02E-08	7.05E-07	7.72E-07	1.659E-06
468885.92	3765317.37	1.52E-08	1.66E-07	2.54E-08	2.92E-08	1.80E-07	8.57E-07	8.01E-07	2.074E-06
469022.06	3766501.43	1.56E-08	1.47E-08	6.38E-08	7.04E-08	1.51E-08	1.86E-06	1.23E-06	3.265E-06
468867.91	3765338.29	1.52E-08	1.38E-07	2.70E-08	3.08E-08	8.71E-07	2.19E-07	8.07E-07	2.038E-06
468903.43	3765396.44	1.53E-08	1.98E-07	2.44E-08	2.81E-08	2.19E-07	8.42E-07	7.95E-07	2.022E-06
469012.63	3766485.35	1.55E-08	1.50E-08	6.31E-08	6.97E-08	1.54E-08	1.85E-06	1.22E-06	3.247E-06
469450.05	3765101.78	1.96E-08	6.00E-08	1.77E-08	2.00E-08	5.64E-08	7.02E-07	7.72E-07	1.648E-06
468849.90	3765359.22	1.51E-08	1.22E-07	2.80E-08	3.20E-08	1.31E-07	8.83E-07	8.10E-07	2.021E-06
468921.94	3765275.52	1.53E-08	2.30E-07	2.35E-08	2.71E-08	2.59E-07	8.27E-07	7.87E-07	2.168E-06
469544.21	3765115.47	2.07E-08	4.80E-08	1.72E-08	1.94E-08	4.54E-08	7.03E-07	7.85E-07	1.638E-06
469753.20	3765190.99	2.39E-08	3.73E-08	1.68E-08	1.88E-08	3.57E-08	7.21E-07	8.39E-07	1.693E-06
469607.28	3765130.69	2.15E-08	4.26E-08	1.68E-08	1.90E-08	4.04E-08	7.05E-07	7.96E-07	1.641E-06
469477.04	3765101.84	1.98E-08	5.58E-08	1.75E-08	1.97E-08	5.26E-08	6.99E-07	7.72E-07	1.636E-06
469272.65	3765104.31	1.76E-08	1.01E-07	1.84E-08	2.10E-08	9.25E-08	7.08E-07	7.52E-07	1.711E-06
468939.95	3765254.59	1.53E-08	2.73E-07	2.25E-08	2.61E-08	3.17E-07	8.09E-07	7.77E-07	2.241E-06
469011.96	3766520.09	1.60E-08	1.46E-08	6.13E-08	6.75E-08	1.49E-08	1.81E-06	1.21E-06	3.201E-06
469304.23	3765094.27	1.79E-08	8.87E-08	1.82E-08	2.07E-08	8.18E-08	7.03E-07	7.52E-07	1.681E-06
468974.07	3766409.56	1.50E-08	1.61E-08	5.97E-08	6.61E-08	1.66E-08	1.79E-06	1.16E-06	3.127E-06
469631.33	3765134.22	2.17E-08	4.05E-08	1.66E-08	1.87E-08	3.85E-08	7.03E-07	7.97E-07	1.635E-06
469504.03	3765101.90	2.00E-08	5.17E-08	1.72E-08	1.94E-08	4.88E-08	6.95E-07	7.71E-07	1.623E-06
469571.20	3765115.53	2.08E-08	4.48E-08	1.69E-08	1.90E-08	4.26E-08	6.97E-07	7.82E-07	1.624E-06
469687.63	3765154.90	2.26E-08	3.72E-08	1.63E-08	1.84E-08	3.55E-08	7.08E-07	8.11E-07	1.649E-06
469254.11	3765100.74	1.73E-08	1.07E-07	1.84E-08	2.09E-08	9.69E-08	7.05E-07	7.46E-07	1.711E-06
469717.10	3765167.45	2.31E-08	3.61E-08	1.62E-08	1.83E-08	3.44E-08	7.11E-07	8.20E-07	1.659E-06
469355.90	3765088.09	1.84E-08	7.41E-08	1.79E-08	2.03E-08	6.87E-08	6.96E-07	7.52E-07	1.648E-06
469382.89	3765088.15	1.86E-08	6.84E-08	1.77E-08	2.01E-08	6.39E-08	6.95E-07	7.54E-07	1.638E-06
469409.88	3765088.21	1.89E-08	6.37E-08	1.76E-08	1.99E-08	5.97E-08	6.93E-07	7.55E-07	1.628E-06
468866.67	3765318.58	1.49E-08	1.40E-07	2.57E-08	2.95E-08	1.52E-07	8.46E-07	7.87E-07	1.995E-06
468884.68	3765297.65	1.49E-08	1.71E-07	2.44E-08	2.80E-08	1.88E-07	8.32E-07	7.81E-07	2.040E-06
468848.66	3765339.50	1.48E-08	1.23E-07	2.70E-08	3.08E-08	1.32E-07	8.58E-07	7.91E-07	1.977E-06
468902.69	3765276.73	1.50E-08	1.97E-07	2.35E-08	2.71E-08	2.18E-07	8.18E-07	7.75E-07	2.074E-06
469285.30	3765090.63	1.75E-08	9.30E-08	1.81E-08	2.06E-08	8.54E-08	6.97E-07	7.43E-07	1.675E-06
469531.02	3765101.95	2.01E-08	4.80E-08	1.70E-08	1.91E-08	4.55E-08	6.91E-07	7.69E-07	1.610E-06
469436.87	3765088.26	1.90E-08	6.02E-08	1.74E-08	1.97E-08	5.67E-08	6.90E-07	7.56E-07	1.619E-06
469743.65	3765175.13	2.33E-08	3.57E-08	1.63E-08	1.83E-08	3.41E-08	7.09E-07	8.22E-07	1.659E-06
468977.48	3766433.72	1.49E-08	1.56E-08	5.87E-08	6.49E-08	1.60E-08	1.76E-06	1.15E-06	3.080E-06
469653.10	3765133.97	2.17E-08	3.84E-08	1.63E-08	1.84E-08	3.66E-08	6.96E-07	7.92E-07	1.620E-06
469463.86	3765088.32	1.93E-08	5.57E-08	1.73E-08	1.94E-08	5.25E-08	6.87E-07	7.54E-07	1.607E-06
46920.70	3765255.80	1.50E-08	2.28E-07	2.25E-08	2.60E-08	2.58E-07	8.02E-07	7.66E-07	2.118E-06
469266.37	3765086.98	1.72E-08	9.73E-08	1.81E-08	2.05E-08	8.90E-08	6.94E-07	7.37E-07	1.674E-06
469317.44	3765080.69	1.77E-08	8.15E-08	1.78E-08	2.02E-08	7.55E-08	6.90E-07	7.40E-07	1.642E-06
469558.01	3765102.01	2.02E-08	4.49E-08	1.67E-08	1.88E-08	4.26E-08	6.86E-07	7.67E-07	1.596E-06
469490.85	3765088.38	1.94E-08	5.17E-08	1.70E-08	1.92E-08	4.89E-08	6.84E-07	7.55E-07	1.595E-06
469678.02	3765138.96	2.19E-08	3.68E-08	1.61E-08	1.81E-08	3.51E-08	6.94E-07	7.93E-07	1.615E-06
469621.66	3765118.17	2.10E-08	4.00E-08	1.64E-08	1.85E-08	3.81E-08	6.89E-07	7.78E-07	1.601E-06
469369.71	3765074.63	1.81E-08	6.88E-08	1.74E-08	1.97E-08	6.41E-08	6.82E-07	7.38E-07	1.608E-06
469298.21	3765076.99	1.74E-08	8.51E-08	1.78E-08	2.02E-08	7.86E-08	6.85E-07	7.32E-07	1.637E-06
469247.45	3765083.34	1.69E-08	1.02E-07	1.80E-08	2.05E-08	9.29E-08	6.91E-07	7.30E-07	1.671E-06
469396.70	3765074.69	1.83E-08	6.35E-08	1.73E-08	1.96E-08	5.95E-08	6.80E-07	7.39E-07	1.598E-06
469734.09	3765159.27	2.26E-08	3.44E-08	1.58E-08	1.79E-08	3.29E-08	6.97E-07	8.04E-07	1.624E-06
469517.84	3765088.43	1.96E-08	4.81E-08	1.68E-08	1.89E-08	4.56E-08	6.80E-07	7.54E-07	1.583E-06
468865.43	3765298.86	1.46E-08	1.43E-07	2.45E-08	2.81E-08	1.54E-07	8.22E-07	7.68E-07	1.956E-06
468847.42	3765319.79	1.46E-08	1.23E-07	2.61E-08	2.96E				

469714.99	3765127.56	2.13E-08	3.31E-08	1.50E-08	1.72E-08	3.17E-08	6.72E-07	7.70E-07	1.560E-06
469558.64	3765075.03	1.92E-08	4.23E-08	1.61E-08	1.81E-08	4.02E-08	6.60E-07	7.35E-07	1.531E-06
469491.48	3765061.39	1.85E-08	4.82E-08	1.63E-08	1.84E-08	4.58E-08	6.57E-07	7.25E-07	1.529E-06
468844.95	3765280.36	1.40E-08	1.27E-07	2.35E-08	2.69E-08	1.36E-07	7.89E-07	7.38E-07	1.855E-06
468862.95	3765259.43	1.40E-08	1.49E-07	2.25E-08	2.58E-08	1.61E-07	7.77E-07	7.32E-07	1.883E-06
469518.47	3765061.45	1.86E-08	4.52E-08	1.61E-08	1.82E-08	4.29E-08	6.54E-07	7.23E-07	1.518E-06
469397.32	3765047.70	1.75E-08	5.89E-08	1.66E-08	1.88E-08	5.54E-08	6.54E-07	7.10E-07	1.531E-06
469680.71	3765107.04	2.0E-08	3.41E-08	1.52E-08	1.73E-08	3.26E-08	6.63E-07	7.53E-07	1.536E-06
469311.41	3765047.29	1.68E-08	7.45E-08	1.70E-08	1.92E-08	6.03E-08	6.37E-07	7.03E-07	1.537E-06
469585.63	3765075.08	1.93E-08	3.98E-08	1.58E-08	1.78E-08	3.79E-08	6.55E-07	7.32E-07	1.518E-06
468880.96	3765238.50	1.41E-08	1.66E-07	2.17E-08	2.49E-08	1.81E-07	7.64E-07	7.26E-07	1.898E-06
469424.31	3765047.76	1.77E-08	5.52E-08	1.65E-08	1.86E-08	5.21E-08	6.52E-07	7.11E-07	1.522E-06
469451.31	3765047.82	1.79E-08	5.15E-08	1.63E-08	1.84E-08	4.88E-08	6.49E-07	7.11E-07	1.513E-06
469649.22	3765091.14	2.00E-08	3.55E-08	1.54E-08	1.74E-08	3.39E-08	6.56E-07	7.41E-07	1.519E-06
468898.97	3765217.58	1.40E-08	1.87E-07	2.09E-08	2.40E-08	2.05E-07	7.50E-07	7.18E-07	1.919E-06
469545.46	3765061.51	1.87E-08	4.25E-08	1.59E-08	1.79E-08	4.04E-08	6.49E-07	7.21E-07	1.506E-06
469705.44	3765111.70	2.07E-08	3.27E-08	1.48E-08	1.69E-08	3.13E-08	6.60E-07	7.53E-07	1.530E-06
469293.38	3765043.82	1.65E-08	7.72E-08	1.69E-08	1.92E-08	7.16E-08	6.54E-07	6.97E-07	1.552E-06
469360.71	3765040.66	1.70E-08	6.44E-08	1.66E-08	1.88E-08	6.04E-08	6.49E-07	7.01E-07	1.527E-06
469478.30	3765047.87	1.80E-08	4.83E-08	1.61E-08	1.82E-08	4.58E-08	6.46E-07	7.10E-07	1.503E-06
469612.62	3765075.14	1.93E-08	3.74E-08	1.55E-08	1.75E-08	3.57E-08	6.50E-07	7.29E-07	1.504E-06
469572.45	3765061.56	1.88E-08	4.00E-08	1.56E-08	1.76E-08	3.81E-08	6.45E-07	7.19E-07	1.494E-06
469505.29	3765047.93	1.81E-08	4.54E-08	1.59E-08	1.79E-08	4.31E-08	6.43E-07	7.09E-07	1.493E-06
469275.35	3765040.35	1.61E-08	8.01E-08	1.68E-08	1.89E-08	6.49E-07	7.41E-08	6.90E-07	1.545E-06
468861.71	3765239.71	1.38E-08	1.47E-07	2.16E-08	2.48E-08	1.58E-07	7.56E-07	7.15E-07	1.935E-06
469324.10	3765033.61	1.65E-08	6.93E-08	1.66E-08	1.88E-08	6.47E-08	6.44E-07	6.90E-07	1.520E-06
469411.13	3765034.24	1.72E-08	5.50E-08	1.62E-08	1.83E-08	5.18E-08	6.40E-07	6.96E-07	1.495E-06
469257.32	3765036.88	1.60E-08	8.27E-08	1.69E-08	1.91E-08	7.63E-08	6.47E-07	6.86E-07	1.544E-06
468879.72	3765218.79	1.38E-08	1.62E-07	2.08E-08	2.40E-08	1.75E-07	7.43E-07	7.08E-07	1.847E-06
469532.28	3765047.99	1.82E-08	4.26E-08	1.57E-08	1.77E-08	4.06E-08	6.39E-07	7.08E-07	1.482E-06
468835.60	3765262.16	1.36E-08	1.19E-07	2.28E-08	2.60E-08	1.27E-07	7.65E-07	7.17E-07	1.791E-06
469639.61	3765075.20	1.94E-08	3.52E-08	1.52E-08	1.72E-08	3.36E-08	6.44E-07	7.25E-07	1.489E-06
469695.89	3765095.84	2.01E-08	3.23E-08	1.47E-08	1.68E-08	3.09E-08	6.48E-07	7.37E-07	1.500E-06
469438.12	3765034.30	1.74E-08	5.19E-08	1.61E-08	1.81E-08	4.90E-08	6.38E-07	6.97E-07	1.487E-06
469599.44	3765061.62	1.89E-08	3.76E-08	1.54E-08	1.73E-08	3.59E-08	6.40E-07	7.16E-07	1.481E-06
469305.80	3765030.09	1.63E-08	7.16E-08	1.66E-08	1.87E-08	6.67E-08	6.41E-07	6.85E-07	1.516E-06
469465.11	3765034.35	1.75E-08	4.82E-08	1.59E-08	1.79E-08	4.57E-08	6.36E-07	6.97E-07	1.477E-06
469374.05	3765027.10	1.68E-08	5.92E-08	1.62E-08	1.83E-08	5.56E-08	6.36E-07	6.88E-07	1.490E-06
469559.27	3765048.04	1.83E-08	4.01E-08	1.55E-08	1.74E-08	3.82E-08	6.35E-07	7.06E-07	1.470E-06
469662.52	3765076.84	1.94E-08	3.35E-08	1.50E-08	1.69E-08	3.21E-08	6.40E-07	7.23E-07	1.480E-06
469492.10	3765034.41	1.77E-08	4.54E-08	1.57E-08	1.77E-08	4.31E-08	6.32E-07	6.96E-07	1.468E-06
469287.50	3765035.56	1.60E-08	7.40E-08	1.68E-08	1.87E-08	6.88E-08	6.38E-07	6.79E-07	1.511E-06
469355.51	3765023.53	1.65E-08	6.24E-08	1.62E-08	1.83E-08	5.88E-08	6.34E-07	6.83E-07	1.489E-06
469626.43	3765061.68	1.89E-08	3.54E-08	1.51E-08	1.70E-08	3.39E-08	6.35E-07	7.12E-07	1.467E-06
468889.22	3765195.80	1.36E-08	1.68E-07	2.00E-08	2.30E-08	1.82E-07	7.23E-07	6.94E-07	1.824E-06
469519.10	3765034.47	1.78E-08	4.27E-08	1.55E-08	1.75E-08	4.06E-08	6.29E-07	6.94E-07	1.558E-06
468860.48	3765220.00	1.35E-08	1.43E-07	2.08E-08	2.39E-08	1.53E-07	7.35E-07	6.98E-07	1.787E-06
469336.96	3765019.96	1.63E-08	6.46E-08	1.62E-08	1.83E-08	6.05E-08	6.31E-07	6.78E-07	1.485E-06
469586.26	3765048.10	1.84E-08	3.78E-08	1.53E-08	1.72E-08	3.61E-08	6.30E-07	7.03E-07	1.458E-06
469686.33	3765079.98	1.95E-08	3.20E-08	1.46E-08	1.66E-08	3.06E-08	6.37E-07	7.22E-07	1.472E-06
469424.94	3765020.78	1.69E-08	5.16E-08	1.58E-08	1.79E-08	4.88E-08	6.27E-07	6.83E-07	1.461E-06
469269.19	3765023.04	1.57E-08	7.66E-08	1.64E-08	1.86E-08	7.10E-08	6.34E-07	6.73E-07	1.505E-06
468830.81	3765244.47	1.33E-08	1.17E-07	2.20E-08	2.51E-08	1.24E-07	7.45E-07	7.00E-07	1.746E-06
469451.93	3765020.83	1.71E-08	4.82E-08	1.57E-08	1.77E-08	4.56E-08	6.25E-07	6.83E-07	1.452E-06
469546.09	3765034.52	1.79E-08	4.02E-08	1.53E-08	1.72E-08	3.83E-08	6.25E-07	6.93E-07	1.447E-06
469250.89	3765019.52	1.55E-08	7.88E-08	1.65E-08	1.86E-08	7.30E-08	6.32E-07	6.68E-07	1.502E-06
469387.44	3765013.56	1.65E-08	5.49E-08	1.59E-08	1.79E-08	5.18E-08	6.24E-07	6.75E-07	1.456E-06
469478.92	3765020.89	1.72E-08	4.54E-08	1.55E-08	1.75E-08	4.31E-08	6.22E-07	6.82E-07	1.463E-06
469613.25	3765048.16	1.84E-08	3.57E-08	1.50E-08	1.69E-08	3.41E-08	6.25E-07	6.86E-07	1.445E-06
469299.88	3765012.83	1.58E-08	6.88E-08	1.62E-08	1.83E-08	6.42E-08	6.26E-07	6.68E-07	1.477E-06
468870.11	3765196.79	1.33E-08	1.47E-07	1.99E-08	2.29E-08	1.57E-07	7.16E-07	6.85E-07	1.762E-06
469573.08	3765034.58	1.79E-08	3.79E-08	1.51E-08	1.70E-08	3.62E-08	6.21E-07	6.90E-07	1.435E-06
469505.91	3765020.95	1.73E-08	4.29E-08	1.53E-08	1.73E-08	4.08E-08	6.19E-07	6.81E-07	1.434E-06
469676.78	3765064.13	1.89E-08	3.17E-08	1.45E-08	1.64E-08	3.04E-08	6.25E-07	7.07E-07	1.444E-06
469349.95	3765006.34	1.60E-08	6.05E-08	1.59E-08	1.79E-08	5.68E-08	6.19E-07	6.66E-07	1.452E-06
469281.33	3765009.26	1.55E-08	7.09E-08	1.61E-08	1.82E-08	6.61E-08	6.23E-07	6.62E-07	1.472E-06
469640.24	3765048.21	1.84E-08	3.35E-08	1.47E-08	1.66E-08	3.21E-08	6.20E-07	6.96E-07	1.432E-06
468880.05	3765180.41	1.33E-08	1.53E-07	1.94E-08	2.23E-08	1.63E-07	7.05E-07	6.77E-07	1.752E-06
469532.90	3765021.00	1.74E-08	4.04E-08	1.51E-08	1.70E-08	3.85E-08	6.15E-07	6.80E-07	1.424E-06
469438.75	3765007.31	1.66E-08	4.86E-08	1.55E-08	1.74E-08	4.61E-08	6.14E-07	6.70E-07	1.428E-06
469600.07	3765034.64	1.80E-08	3.58E-08	1.49E-08	1.67E-08	3.43E-08	6.16E-07	6.88E-07	1.424E-06
469331.20	3765002.73	1.58E-08	6.23E-08	1.58E-08	1.79E-08	5.85E-08	6.16E-07	6.61E-07	1.448E-06
469465.74	3765007.37	1.68E-08	4.55E-08	1.53E-08	1.73E-08	4.32E-08	6.12E-07	6.69E-07	1.419E-06
469262.79	3765005.69	1.52E-08	7.32E-08	1.60E-08	1.81E-08	6.80E-08	6.18E-07	6.56E-07	1.405E-06
469550.89	3765021.06	1.75E-08	3.81E-08	1.49E-08	1.68E-08	3.65E-08	6.12E-07	6.78E-07	1.413E-06
469400.89	3765000.03	1.75E-08	5.17E-08	1.55E-08	1.75E-08	4.89E-08	6.11E-07	6.62E-07	1.423E-06
468850.99	3765197.79	1.31E-08	1.31E-07	1.99E-08	2.28E-08	1.39E-07	7.09E-07	6.75E-07	1.710E-06
469312.45	3764999.12	1.56E-08	6.42E-08	1.58E-08	1.79E-08	6.01E-08	6.14E-07	6.56E-07	1.443E-06
469492.73	3765007.43	1.69E-08	4.30E-08	1.51E-08	1.71E-08	4.09E-08	6.09E-07	6.69E-07	1.411E-06
469667.23	3765048.27	1.84E-08	3.15E-08	1.44E-08	1.62E-08	3.03E-08	6.14E-07	6.92E-07	1.417E-06
469627.06	3765034.69	1.80E-08	3.37E-08	1.46E-08	1.64E-08	3.24E-08	6.11E-07	6.84E-07	1.411E-06
468864.72	3765180.81	1.30E-08	1.38E-07	1.93E-08	2.22E-08	1.47E-07	6.99E-07	6.69E-07	1.707E-06
469293.70	3764995.52	1.53E-08	6.61E-08	1.58E-08	1.78E-08	6.18E-08	6.11E-07	6.51E-07	1.439E-06
469519.72	3765007.48	1.70E-08	4.06E-08	1.50E-08	1.68E-08	3.87E-08	6.06E-07	6.67E-07	1.401E-06
469586.88	3765021.12	1.75E-08	3.61E-08	1.47E-08	1.66E-08	3.45E-08	6.07E-07	6.75E-07	1.402E-06
469363.03	3764992.74	1.58E-08	5.63E-08	1.55E-08	1.75E-08	5.33E-08	6.07E-07	6.54E-07	1.419E-06
468878.96	3765162.78	1.30E-08	1.45E-07	1.89E-08	2.17E-08	1.54E-07	6.88E-07	6.62E-07	1.703E-06
469344.11	3764989.10	1.56E-08	5.84E-08	1.55E-08	1.75E-08	5.49E-08	6.05E-07	6.49E-07	1.416E-06
469452.56	3764993.85	1.63E-08	4.54E-08	1.51E-08	1.70E-08	4.32E-08	6.02E-07	6.57E-07	1.396E-06
469274.95	3764991.91	1.51E-08	6.80E-08	1.57E-08	1.78E				

469587.51	3764994.13	1.67E-08	3.45E-08	1.42E-08	1.60E-08	3.31E-08	5.86E-07	6.50E-07	1.350E-06
469520.35	3764980.50	1.62E-08	3.87E-08	1.44E-08	1.62E-08	3.70E-08	5.84E-07	6.42E-07	1.349E-06
468858.56	3765144.43	1.25E-08	1.23E-07	1.82E-08	2.09E-08	1.28E-07	6.64E-07	6.38E-07	1.604E-06
469249.46	3764970.88	1.44E-08	6.67E-08	1.53E-08	1.73E-08	6.24E-08	5.90E-07	6.24E-07	1.391E-06
469389.45	3764965.58	1.53E-08	5.00E-08	1.48E-08	1.67E-08	4.74E-08	5.84E-07	6.30E-07	1.358E-06
469299.85	3764964.46	1.47E-08	5.94E-08	1.51E-08	1.70E-08	5.58E-08	5.86E-07	6.24E-07	1.372E-06
469370.22	3764961.88	1.51E-08	5.16E-08	1.48E-08	1.67E-08	4.89E-08	5.82E-07	6.27E-07	1.356E-06
469547.34	3764980.56	1.63E-08	3.67E-08	1.43E-08	1.60E-08	3.51E-08	5.81E-07	6.40E-07	1.339E-06
469614.50	3764994.19	1.67E-08	3.26E-08	1.40E-08	1.57E-08	3.12E-08	5.81E-07	6.47E-07	1.338E-06
469480.18	3764966.92	1.57E-08	4.07E-08	1.44E-08	1.62E-08	3.89E-08	5.78E-07	6.32E-07	1.336E-06
469280.77	3764960.78	1.45E-08	6.09E-08	1.51E-08	1.70E-08	5.71E-08	5.83E-07	6.19E-07	1.367E-06
469350.99	3764958.18	1.49E-08	5.30E-08	1.48E-08	1.67E-08	5.01E-08	5.80E-07	6.23E-07	1.352E-06
469460.82	3764963.20	1.56E-08	4.20E-08	1.45E-08	1.63E-08	4.00E-08	5.77E-07	6.29E-07	1.334E-06
469574.33	3764980.61	1.63E-08	3.47E-08	1.41E-08	1.58E-08	3.32E-08	5.77E-07	6.38E-07	1.330E-06
468841.94	3765144.21	1.23E-08	1.12E-07	1.81E-08	2.07E-08	1.17E-07	6.57E-07	6.30E-07	1.568E-06
469441.46	3764959.47	1.54E-08	4.35E-08	1.45E-08	1.63E-08	4.13E-08	5.76E-07	6.26E-07	1.332E-06
468867.81	3765122.25	1.24E-08	1.21E-07	1.77E-08	2.03E-08	1.25E-07	6.48E-07	6.27E-07	1.571E-06
469507.17	3764966.98	1.58E-08	3.87E-08	1.43E-08	1.60E-08	3.70E-08	5.75E-07	6.31E-07	1.328E-06
469331.76	3764954.48	1.47E-08	5.44E-08	1.48E-08	1.67E-08	5.13E-08	5.77E-07	6.18E-07	1.348E-06
469422.11	3764955.75	1.52E-08	4.58E-08	1.45E-08	1.63E-08	4.33E-08	5.74E-07	6.22E-07	1.331E-06
469261.68	3764957.11	1.42E-08	6.23E-08	1.50E-08	1.69E-08	5.84E-08	5.80E-07	6.14E-07	1.361E-06
468808.27	3765108.61	1.21E-08	9.97E-08	1.87E-08	2.14E-08	1.04E-07	6.65E-07	6.31E-07	1.552E-06
469534.16	3764967.04	1.59E-08	3.67E-08	1.41E-08	1.58E-08	3.51E-08	5.72E-07	6.29E-07	1.319E-06
469402.75	3764952.02	1.50E-08	4.74E-08	1.45E-08	1.63E-08	5.72E-07	5.72E-07	6.19E-07	1.330E-06
469312.53	3764950.78	1.45E-08	5.58E-08	1.48E-08	1.67E-08	5.26E-08	5.75E-07	6.14E-07	1.343E-06
469601.32	3764980.67	1.63E-08	3.27E-08	1.39E-08	1.56E-08	3.14E-08	5.73E-07	6.36E-07	1.319E-06
469383.40	3764948.30	1.48E-08	4.88E-08	1.45E-08	1.63E-08	4.63E-08	5.71E-07	6.15E-07	1.327E-06
468852.49	3765122.65	1.22E-08	1.12E-07	1.76E-08	2.02E-08	1.15E-07	6.43E-07	6.20E-07	1.541E-06
469293.30	3764947.08	1.43E-08	5.71E-08	1.48E-08	1.66E-08	5.38E-08	5.72E-07	6.09E-07	1.338E-06
469561.15	3764967.09	1.59E-08	3.48E-08	1.39E-08	1.56E-08	3.33E-08	5.69E-07	6.27E-07	1.310E-06
469364.04	3764944.57	1.47E-08	5.01E-08	1.45E-08	1.63E-08	4.74E-08	5.69E-07	6.12E-07	1.323E-06
469493.98	3764953.46	1.54E-08	3.87E-08	1.41E-08	1.59E-08	3.70E-08	5.66E-07	6.19E-07	1.307E-06
469344.68	3764940.84	1.45E-08	5.13E-08	1.45E-08	1.63E-08	4.85E-08	5.67E-07	6.08E-07	1.319E-06
469274.07	3764943.37	1.41E-08	5.84E-08	1.47E-08	1.66E-08	5.49E-08	5.69E-07	6.04E-07	1.333E-06
469588.14	3764967.15	1.60E-08	3.29E-08	1.37E-08	1.54E-08	3.15E-08	5.65E-07	6.25E-07	1.300E-06
469520.97	3764953.52	1.55E-08	3.69E-08	1.40E-08	1.57E-08	3.53E-08	5.64E-07	6.18E-07	1.299E-06
468836.77	3765123.11	1.20E-08	1.04E-07	1.75E-08	2.00E-08	1.07E-07	6.38E-07	6.13E-07	1.512E-06
469325.33	3764937.12	1.43E-08	5.25E-08	1.45E-08	1.63E-08	4.96E-08	5.64E-07	6.03E-07	1.315E-06
468862.75	3765101.48	1.20E-08	1.10E-07	1.72E-08	1.97E-08	1.13E-07	6.30E-07	6.10E-07	1.512E-06
469254.84	3764939.67	1.38E-08	5.97E-08	1.46E-08	1.65E-08	5.60E-08	5.66E-07	5.99E-07	1.326E-06
469547.97	3764953.57	1.56E-08	3.49E-08	1.38E-08	1.55E-08	3.35E-08	5.60E-07	6.17E-07	1.290E-06
469305.97	3764933.39	1.41E-08	5.37E-08	1.44E-08	1.63E-08	5.07E-08	5.62E-07	5.99E-07	1.310E-06
469574.96	3764953.63	1.56E-08	3.31E-08	1.36E-08	1.53E-08	3.18E-08	5.57E-07	6.15E-07	1.281E-06
469507.79	3764940.00	1.51E-08	3.70E-08	1.38E-08	1.55E-08	3.54E-08	5.55E-07	6.07E-07	1.279E-06
468847.42	3765101.88	1.19E-08	1.03E-07	1.71E-08	1.95E-08	1.05E-07	6.25E-07	6.04E-07	1.484E-06
469286.62	3764929.67	1.39E-08	5.49E-08	1.44E-08	1.62E-08	5.18E-08	5.59E-07	5.94E-07	1.305E-06
469470.43	3764932.80	1.49E-08	3.93E-08	1.39E-08	1.56E-08	3.76E-08	5.53E-07	6.03E-07	1.277E-06
469451.74	3764929.21	1.47E-08	4.05E-08	1.39E-08	1.56E-08	3.87E-08	5.52E-07	6.00E-07	1.276E-06
469534.78	3764940.05	1.52E-08	3.50E-08	1.36E-08	1.53E-08	3.36E-08	5.52E-07	6.06E-07	1.271E-06
469267.26	3764925.94	1.37E-08	5.60E-08	1.44E-08	1.62E-08	5.28E-08	5.57E-07	5.90E-07	1.300E-06
469433.06	3764925.61	1.46E-08	4.14E-08	1.39E-08	1.56E-08	3.95E-08	5.51E-07	5.97E-07	1.274E-06
469414.38	3764922.02	1.44E-08	4.36E-08	1.39E-08	1.56E-08	4.15E-08	5.50E-07	5.94E-07	1.273E-06
468831.60	3765103.30	1.17E-08	9.61E-08	1.70E-08	1.94E-08	9.83E-08	6.20E-07	5.98E-07	1.460E-06
469561.77	3764940.11	1.52E-08	3.32E-08	1.35E-08	1.51E-08	3.19E-08	5.49E-07	6.04E-07	1.262E-06
469247.91	3764922.22	1.35E-08	5.71E-08	1.43E-08	1.62E-08	5.37E-08	5.54E-07	5.85E-07	1.293E-06
469395.69	3764918.42	1.42E-08	4.46E-08	1.39E-08	1.56E-08	4.24E-08	5.48E-07	5.91E-07	1.270E-06
468851.99	3765081.80	1.17E-08	9.85E-08	1.67E-08	1.90E-08	1.00E-07	6.11E-07	5.92E-07	1.449E-06
469371.01	3764914.82	1.41E-08	4.56E-08	1.39E-08	1.56E-08	4.33E-08	5.46E-07	5.88E-07	1.267E-06
469521.60	3764926.53	1.48E-08	3.57E-08	1.35E-08	1.52E-08	3.42E-08	5.44E-07	5.95E-07	1.253E-06
469358.33	3764911.23	1.39E-08	4.65E-08	1.39E-08	1.56E-08	4.42E-08	5.45E-07	5.85E-07	1.264E-06
469483.98	3764919.29	1.46E-08	3.71E-08	1.36E-08	1.52E-08	3.55E-08	5.43E-07	5.91E-07	1.250E-06
469339.65	3764907.63	1.38E-08	4.74E-08	1.39E-08	1.56E-08	4.50E-08	5.43E-07	5.81E-07	1.260E-06
469548.59	3764926.59	1.49E-08	3.27E-08	1.33E-08	1.49E-08	3.14E-08	5.41E-07	5.94E-07	1.243E-06
469446.36	3764912.05	1.43E-08	3.91E-08	1.36E-08	1.53E-08	3.73E-08	5.41E-07	5.87E-07	1.247E-06
468836.67	3765082.20	1.15E-08	9.24E-08	1.66E-08	1.89E-08	9.39E-08	6.06E-07	5.86E-07	1.425E-06
469320.96	3764904.04	1.36E-08	4.84E-08	1.39E-08	1.56E-08	4.59E-08	5.41E-07	5.77E-07	1.256E-06
468788.31	3765117.47	1.13E-08	8.31E-08	1.69E-08	1.94E-08	8.52E-08	6.16E-07	5.88E-07	1.420E-06
469408.73	3764904.81	1.40E-08	4.23E-08	1.36E-08	1.53E-08	4.03E-08	5.38E-07	5.80E-07	1.244E-06
469389.92	3764901.19	1.38E-08	4.33E-08	1.36E-08	1.53E-08	4.12E-08	5.36E-07	5.77E-07	1.240E-06
469302.28	3764900.44	1.34E-08	4.93E-08	1.38E-08	1.56E-08	4.67E-08	5.38E-07	5.73E-07	1.251E-06
468820.95	3765082.66	1.13E-08	8.69E-08	1.64E-08	1.88E-08	8.84E-08	6.01E-07	5.80E-07	1.403E-06
468846.93	3765061.03	1.14E-08	9.04E-08	1.62E-08	1.84E-08	9.11E-08	5.94E-07	5.77E-07	1.399E-06
469535.41	3764913.07	1.46E-08	3.35E-08	1.32E-08	1.48E-08	3.21E-08	5.33E-07	5.84E-07	1.226E-06
469371.11	3764897.57	1.37E-08	4.41E-08	1.36E-08	1.53E-08	4.20E-08	5.34E-07	5.74E-07	1.237E-06
469497.55	3764905.78	1.43E-08	3.42E-08	1.32E-08	1.48E-08	3.27E-08	5.33E-07	5.81E-07	1.223E-06
469283.60	3764896.84	1.32E-08	5.02E-08	1.38E-08	1.55E-08	4.75E-08	5.36E-07	5.69E-07	1.246E-06
469352.30	3764893.95	1.35E-08	4.50E-08	1.36E-08	1.53E-08	4.28E-08	5.33E-07	5.71E-07	1.234E-06
469459.69	3764898.50	1.41E-08	3.62E-08	1.33E-08	1.49E-08	3.46E-08	5.31E-07	5.76E-07	1.220E-06
469333.49	3764890.33	1.34E-08	4.52E-08	1.36E-08	1.53E-08	4.30E-08	5.32E-07	5.68E-07	1.231E-06
469440.77	3764894.85	1.39E-08	3.78E-08	1.33E-08	1.50E-08	3.61E-08	5.30E-07	5.73E-07	1.219E-06
469264.91	3764893.25	1.31E-08	5.10E-08	1.38E-08	1.55E-08	4.82E-08	5.34E-07	5.65E-07	1.241E-06
468831.60	3765061.43	1.12E-08	8.52E-08	1.61E-08	1.83E-08	8.61E-08	5.89E-07	5.71E-07	1.377E-06
469421.84	3764891.21	1.38E-08	4.02E-08	1.33E-08	1.50E-08	3.84E-08	5.28E-07	5.70E-07	1.219E-06
469314.68	3764886.71	1.32E-08	4.67E-08	1.36E-08	1.53E-08	4.43E-08	5.29E-07	5.64E-07	1.226E-06
469246.23	3764889.65	1.29E-08	5.17E-08	1.37E-08	1.55E-08	4.89E-08	5.31E-07	5.61E-07	1.235E-06
469402.91	3764887.57	1.36E-08	4.11E-08	1.33E-08	1.50E-08	3.92E-08	5.26E-07	5.67E-07	1.216E-06
469383.98	3764883.92	1.35E-08	4.19E-08	1.33E-08	1.50E-08	4.00E-08	5.25E-07	5.64E-07	1.212E-06
469295.87	3764883.08	1.31E-08	4.75E-08	1.35E-08	1.52E-08	4.50E-08	5.27E-07	5.60E-07	1.221E-06
468815.78	3765062.85	1.11E-08	8.08E-08	1.60E-08	1.82E-08	8.17E-08	5.85E-07	5.66E-07	

**Unmitigated
Diesel Vehicle Concentrations**

2022

		X	Y	DPM (ug/m3)
Max		469644.93	3766144.59	1.0669E-03
Construction MIR		469594.13	3766418.72	8.6688E-04
Operational MIR		469644.93	3766144.59	1.0669E-03
		Trucks DPM (ug/m3)	Cars DPM (ug/m3)	Total DPM (ug/m3)
X	Y			
469644.93	3766144.59	1.0160E-03	5.0943E-05	1.0669E-03
469649.83	3766163.48	1.0109E-03	5.2102E-05	1.0630E-03
469654.73	3766182.38	1.0033E-03	5.2575E-05	1.0559E-03
469659.63	3766201.27	9.9212E-04	5.2331E-05	1.0444E-03
469664.53	3766220.16	9.7408E-04	5.1181E-05	1.0253E-03
469669.43	3766239.06	9.5175E-04	4.9273E-05	1.0010E-03
469674.33	3766257.95	9.2124E-04	4.6428E-05	9.6767E-04
469555.60	3766418.50	1.0026E-03	2.6035E-05	1.0286E-03
469663.59	3766139.75	8.4976E-04	4.0547E-05	8.9031E-04
469679.23	3766276.84	8.7973E-04	4.2610E-05	9.2234E-04
469668.49	3766158.64	8.4145E-04	4.1470E-05	8.8292E-04
469673.39	3766177.53	8.3140E-04	4.1877E-05	8.7328E-04
469574.86	3766418.61	9.2395E-04	2.5006E-05	9.4896E-04
469678.30	3766196.43	8.1907E-04	4.1750E-05	8.6082E-04
469684.13	3766295.74	8.3597E-04	3.8425E-05	8.7440E-04
469683.20	3766215.32	8.0427E-04	4.1106E-05	8.4537E-04
469594.13	3766418.72	8.4298E-04	2.3900E-05	8.6688E-04
469688.10	3766234.21	7.8626E-04	3.9929E-05	8.2619E-04
469693.00	3766253.11	7.6403E-04	3.8203E-05	8.0223E-04
469689.03	3766314.63	7.7843E-04	3.3773E-05	8.1220E-04
469682.26	3766134.90	7.3331E-04	3.3237E-05	7.6655E-04
469613.39	3766418.84	7.6429E-04	2.2752E-05	7.8704E-04
469687.16	3766153.80	7.2454E-04	3.3999E-05	7.5854E-04
469697.90	3766272.00	7.3622E-04	3.5921E-05	7.7214E-04
469692.06	3766172.69	7.1462E-04	3.4371E-05	7.4899E-04
469696.96	3766191.58	7.0277E-04	3.4361E-05	7.3713E-04
469701.86	3766210.48	6.8945E-04	3.3986E-05	7.2343E-04
469693.93	3766333.52	7.1979E-04	2.9544E-05	7.4934E-04
469702.80	3766290.90	7.0322E-04	3.3170E-05	7.3639E-04
469632.66	3766418.95	6.8927E-04	2.1577E-05	7.1085E-04
469536.22	3766437.67	7.7727E-04	2.2915E-05	8.0018E-04
469706.77	3766229.37	6.7364E-04	3.3216E-05	7.0686E-04
469555.48	3766437.78	7.4735E-04	2.2288E-05	7.6963E-04
469711.67	3766248.27	6.5458E-04	3.2045E-05	6.8663E-04
469262.80	3766137.49	7.6533E-04	2.9550E-05	7.9488E-04
469259.80	3766119.29	7.6625E-04	2.7958E-05	7.9421E-04
469265.80	3766155.70	7.6065E-04	3.0838E-05	7.9149E-04
469705.83	3766148.96	6.3809E-04	2.8451E-05	6.6654E-04
469707.70	3766309.79	6.6479E-04	3.0104E-05	6.9489E-04
469574.75	3766437.90	7.0892E-04	2.1558E-05	7.3048E-04
469268.79	3766173.91	7.6915E-04	3.2031E-05	8.0119E-04
469710.73	3766167.85	6.2790E-04	2.8791E-05	6.5669E-04
469271.79	3766192.11	7.5739E-04	3.2534E-05	7.8992E-04
469698.83	3766352.42	6.5267E-04	2.5719E-05	6.7839E-04
469716.57	3766267.16	6.3214E-04	3.0499E-05	6.6264E-04
469715.63	3766186.74	6.1929E-04	2.8855E-05	6.4814E-04
469651.92	3766419.06	6.2114E-04	2.0592E-05	6.4173E-04
469274.79	3766210.32	7.4417E-04	3.2695E-05	7.7687E-04
469594.01	3766438.01	6.6445E-04	2.0741E-05	6.8519E-04
469720.53	3766205.64	6.0734E-04	2.8657E-05	6.3600E-04
469712.60	3766328.68	6.2251E-04	2.6990E-05	6.4950E-04
469277.78	3766228.52	7.5038E-04	3.3007E-05	7.8338E-04
469721.47	3766286.05	6.0872E-04	2.8617E-05	6.3734E-04
469725.43	3766224.53	5.9306E-04	2.8171E-05	6.2124E-04
469280.78	3766246.73	7.1815E-04	3.2269E-05	7.5042E-04
469613.28	3766438.12	6.1738E-04	1.9866E-05	6.3724E-04
469724.50	3766144.11	5.7114E-04	2.4224E-05	5.9536E-04
469730.33	3766243.42	5.7769E-04	2.7387E-05	6.0508E-04
469283.77	3766264.93	7.0454E-04	3.1770E-05	7.3631E-04
469240.77	3766122.42	6.3956E-04	2.3494E-05	6.6305E-04

469729.40	3766163.01	5.6378E-04	2.4531E-05	5.8831E-04
469726.37	3766304.95	5.8140E-04	2.6476E-05	6.0787E-04
469243.77	3766140.63	6.3805E-04	2.4605E-05	6.6265E-04
469234.99	3766087.20	6.3707E-04	2.1073E-05	6.5814E-04
469246.77	3766158.83	6.3412E-04	2.5558E-05	6.5968E-04
469703.74	3766371.31	5.8413E-04	2.2485E-05	6.0662E-04
469734.30	3766181.90	5.5791E-04	2.4904E-05	5.8281E-04
469231.82	3766069.35	6.3219E-04	1.9812E-05	6.5200E-04
469249.76	3766177.04	6.2730E-04	2.6277E-05	6.5358E-04
469717.50	3766347.58	5.7685E-04	2.4043E-05	6.0089E-04
469735.23	3766262.32	5.5979E-04	2.6320E-05	5.8611E-04
469228.65	3766051.50	6.2636E-04	1.8629E-05	6.4499E-04
469286.77	3766283.14	6.8919E-04	3.0924E-05	7.2011E-04
469671.19	3766419.18	5.6085E-04	1.9634E-05	5.8048E-04
469739.20	3766200.79	5.4842E-04	2.4893E-05	5.7332E-04
469252.76	3766195.24	6.2007E-04	2.6655E-05	6.4672E-04
469632.54	3766438.24	5.7217E-04	1.9071E-05	5.9124E-04
469225.48	3766033.65	6.1995E-04	1.7547E-05	6.3750E-04
469731.27	3766323.84	5.5429E-04	2.4738E-05	5.7902E-04
469536.10	3766456.96	6.0852E-04	1.9689E-05	6.2821E-04
469255.76	3766213.45	6.1004E-04	2.6771E-05	6.3681E-04
469222.31	3766015.80	6.1296E-04	1.6564E-05	6.2952E-04
469744.10	3766219.69	5.3421E-04	2.4595E-05	5.5881E-04
469740.14	3766281.21	5.4125E-04	2.5325E-05	5.6658E-04
469555.37	3766457.07	5.9338E-04	1.9270E-05	6.1265E-04
469258.75	3766231.65	5.9923E-04	2.6697E-05	6.2593E-04
469219.14	3765997.95	6.0494E-04	1.5671E-05	6.2061E-04
469743.17	3766139.27	5.1787E-04	2.0916E-05	5.3878E-04
469574.63	3766457.18	5.7153E-04	1.8751E-05	5.9028E-04
469749.00	3766238.58	5.1904E-04	2.4052E-05	5.4309E-04
469215.97	3765980.10	5.9699E-04	1.4875E-05	6.1186E-04
469722.40	3766366.47	5.3509E-04	2.1730E-05	5.5682E-04
469261.75	3766249.86	5.8867E-04	2.6545E-05	6.1521E-04
469745.04	3766300.10	5.2349E-04	2.4073E-05	5.4756E-04
469748.07	3766158.16	5.1095E-04	2.1236E-05	5.3218E-04
469651.81	3766438.35	5.2942E-04	1.8361E-05	5.4778E-04
469752.97	3766177.06	5.0651E-04	2.1577E-05	5.2809E-04
469736.17	3766342.73	5.2257E-04	2.2675E-05	5.4525E-04
469753.90	3766257.47	5.0664E-04	2.3463E-05	5.3010E-04
469757.87	3766195.95	5.0048E-04	2.1867E-05	5.2234E-04
469264.75	3766268.06	5.7573E-04	2.6129E-05	6.0186E-04
469593.90	3766457.30	5.4532E-04	1.8156E-05	5.6348E-04
469754.84	3766337.89	5.1137E-04	2.3798E-05	5.3517E-04
469221.74	3766125.55	5.4170E-04	1.9910E-05	5.6161E-04
469224.74	3766143.76	5.4059E-04	2.0743E-05	5.6133E-04
469216.00	3766090.58	5.3962E-04	1.8106E-05	5.5772E-04
469209.64	3765944.40	5.8493E-04	1.3604E-05	5.9853E-04
469227.74	3766161.96	5.3729E-04	2.1433E-05	5.5873E-04
469212.83	3766072.73	5.3575E-04	1.7132E-05	5.5288E-04
469749.94	3766319.00	5.0230E-04	2.2749E-05	5.2505E-04
469758.80	3766276.37	4.9415E-04	2.2867E-05	5.1702E-04
469230.73	3766180.17	5.3241E-04	2.1954E-05	5.5436E-04
469209.66	3766054.88	5.3083E-04	1.6185E-05	5.4702E-04
469762.77	3766214.85	4.8681E-04	2.1533E-05	5.0834E-04
469206.57	3765924.94	5.8152E-04	1.3085E-05	5.9461E-04
469741.07	3766361.63	5.0149E-04	2.1566E-05	5.2305E-04
469267.74	3766286.27	5.6114E-04	2.5436E-05	5.8658E-04
469768.61	3766314.16	4.8988E-04	2.3319E-05	5.1320E-04
469233.73	3766198.37	5.2784E-04	2.2351E-05	5.5019E-04
469206.49	3766037.03	5.2516E-04	1.5293E-05	5.4045E-04
469613.17	3766457.41	5.1551E-04	1.7495E-05	5.3301E-04
469203.32	3766019.18	5.1882E-04	1.4465E-05	5.3328E-04
469767.67	3766233.74	4.7612E-04	2.1356E-05	4.9748E-04
469761.83	3766134.43	4.7626E-04	1.8280E-05	4.9454E-04
469236.73	3766216.58	5.2023E-04	2.2475E-05	5.4271E-04
469771.64	3766172.22	4.7241E-04	1.9398E-05	4.9181E-04
469763.70	3766295.26	4.7792E-04	2.1974E-05	4.9989E-04
469759.74	3766356.79	4.8508E-04	2.2033E-05	5.0712E-04
469766.73	3766153.32	4.7096E-04	1.8678E-05	4.8964E-04
469200.15	3766001.33	5.1207E-04	1.3698E-05	5.2577E-04
469201.07	3765889.87	5.7045E-04	1.2125E-05	5.8257E-04
469686.41	3766431.02	4.8081E-04	1.7639E-05	4.9845E-04

469239.72	3766234.79	5.1178E-04	2.2467E-05	5.3425E-04
469772.57	3766252.63	4.6545E-04	2.1069E-05	4.8652E-04
469776.54	3766191.11	4.6341E-04	1.9522E-05	4.8293E-04
469773.51	3766333.05	4.7097E-04	2.2108E-05	4.9308E-04
469782.37	3766290.42	4.6477E-04	2.2047E-05	4.8682E-04
469196.98	3765983.48	5.0496E-04	1.2992E-05	5.1796E-04
469632.43	3766457.52	4.8620E-04	1.6927E-05	5.0313E-04
469781.44	3766210.00	4.5472E-04	1.9667E-05	4.7438E-04
469242.72	3766252.99	5.0221E-04	2.2323E-05	5.2453E-04
469777.47	3766271.53	4.5614E-04	2.0887E-05	4.7703E-04
469273.30	3766319.19	5.2619E-04	2.3641E-05	5.4983E-04
469787.27	3766309.31	4.5122E-04	2.1334E-05	4.7255E-04
469723.85	3766402.05	4.6276E-04	1.7849E-05	4.8061E-04
469742.52	3766397.21	4.6310E-04	1.9605E-05	4.8271E-04
469535.99	3766476.24	4.9919E-04	1.7129E-05	5.1632E-04
469195.58	3765854.80	5.3783E-04	1.0798E-05	5.4863E-04
469786.34	3766228.90	4.4453E-04	1.9596E-05	4.6413E-04
469190.65	3765947.78	4.9175E-04	1.1776E-05	5.0353E-04
469202.71	3766128.69	4.7304E-04	1.7259E-05	4.9030E-04
469197.01	3766093.95	4.7184E-04	1.5898E-05	4.8774E-04
469555.26	3766476.36	4.9048E-04	1.6837E-05	5.0731E-04
469791.24	3766247.79	4.4151E-04	2.0182E-05	4.6169E-04
469205.71	3766146.89	4.7193E-04	1.7885E-05	4.8981E-04
469796.14	3766266.68	4.4079E-04	2.0347E-05	4.6114E-04
469778.41	3766351.94	4.5076E-04	2.0793E-05	4.7155E-04
469245.72	3766271.20	4.8529E-04	2.1797E-05	5.0709E-04
469193.84	3766076.10	4.6901E-04	1.5140E-05	4.8416E-04
469785.40	3766148.48	4.4068E-04	1.6762E-05	4.5744E-04
469795.20	3766186.27	4.3692E-04	1.7851E-05	4.5477E-04
469208.71	3766165.10	4.6797E-04	1.8368E-05	4.8633E-04
469190.67	3766058.25	4.6522E-04	1.4391E-05	4.7961E-04
469187.51	3765927.92	4.8509E-04	1.1199E-05	4.9629E-04
469800.10	3766205.16	4.3220E-04	1.8185E-05	4.5038E-04
469790.30	3766167.37	4.3646E-04	1.7143E-05	4.5361E-04
469574.52	3766476.47	4.7637E-04	1.6453E-05	4.9283E-04
469211.70	3766183.30	4.6323E-04	1.8750E-05	4.8198E-04
469651.70	3766457.63	4.5734E-04	1.6360E-05	4.7370E-04
469187.50	3766040.40	4.6063E-04	1.3666E-05	4.7430E-04
469792.17	3766328.21	4.3637E-04	2.0476E-05	4.5684E-04
469801.04	3766285.58	4.2948E-04	1.9982E-05	4.4946E-04
469214.70	3766201.51	4.5901E-04	1.9052E-05	4.7806E-04
469184.33	3766022.55	4.5556E-04	1.2975E-05	4.6854E-04
469761.19	3766392.37	4.4378E-04	1.9170E-05	4.6295E-04
469248.71	3766289.40	4.7204E-04	2.1246E-05	4.9328E-04
469190.09	3765819.74	5.2642E-04	1.0096E-05	5.3652E-04
469789.37	3766086.96	4.3558E-04	1.3946E-05	4.4953E-04
469593.79	3766476.58	4.5974E-04	1.6014E-05	4.7575E-04
469217.70	3766219.71	4.5483E-04	1.9248E-05	4.7408E-04
469181.16	3766004.70	4.5007E-04	1.2325E-05	4.6240E-04
469182.02	3765892.85	4.7057E-04	1.0218E-05	4.8079E-04
469794.27	3766105.85	4.2625E-04	1.4111E-05	4.4036E-04
469805.94	3766304.47	4.1803E-04	1.9495E-05	4.3753E-04
469804.07	3766143.64	4.1692E-04	1.5006E-05	4.3193E-04
469178.00	3765986.85	4.4426E-04	1.1716E-05	4.5598E-04
469799.17	3766124.74	4.2011E-04	1.4486E-05	4.3459E-04
469808.97	3766162.53	4.1299E-04	1.5484E-05	4.2848E-04
469797.07	3766347.10	4.2056E-04	1.9498E-05	4.4005E-04
469220.69	3766237.92	4.4698E-04	1.9230E-05	4.6621E-04
469278.79	3766351.72	4.8832E-04	2.1483E-05	5.0981E-04
469670.96	3766457.75	4.3003E-04	1.5879E-05	4.4591E-04
469813.87	3766181.42	4.0743E-04	1.5906E-05	4.2334E-04
469174.83	3765969.00	4.3833E-04	1.1150E-05	4.4948E-04
469613.05	3766476.69	4.4022E-04	1.5512E-05	4.5573E-04
469779.86	3766387.52	4.2056E-04	1.8575E-05	4.3913E-04
469818.77	3766200.32	4.0183E-04	1.6256E-05	4.1809E-04
469223.69	3766256.12	4.3439E-04	1.8963E-05	4.5335E-04
469810.84	3766323.36	4.0608E-04	1.8894E-05	4.2497E-04
469176.53	3765857.79	4.5064E-04	9.2359E-06	4.5987E-04
469171.66	3765951.15	4.3205E-04	1.0619E-05	4.4267E-04
469788.43	3766006.54	4.4755E-04	1.0727E-05	4.5828E-04
469793.33	3766025.43	4.3178E-04	1.0879E-05	4.4266E-04
469783.53	3765987.65	4.7372E-04	1.1000E-05	4.8472E-04

469701.62	3766442.87	4.1585E-04	1.5459E-05	4.3131E-04
469798.23	3766044.33	4.2155E-04	1.1168E-05	4.3272E-04
469254.28	3766322.40	4.4656E-04	1.9966E-05	4.6653E-04
469803.14	3766063.22	4.1355E-04	1.1539E-05	4.2509E-04
469823.67	3766219.21	3.9609E-04	1.6519E-05	4.1261E-04
469178.02	3766097.32	4.1943E-04	1.4120E-05	4.3355E-04
469183.69	3766131.82	4.2012E-04	1.5174E-05	4.3529E-04
469808.04	3766082.11	4.0692E-04	1.1971E-05	4.1889E-04
469174.85	3766079.47	4.1735E-04	1.3523E-05	4.3088E-04
469186.68	3766150.02	4.1882E-04	1.5650E-05	4.3447E-04
469812.94	3766101.01	4.0115E-04	1.2454E-05	4.1360E-04
469168.46	3765930.91	4.2567E-04	1.0077E-05	4.3574E-04
469171.68	3766061.62	4.1443E-04	1.2921E-05	4.2735E-04
469632.32	3766476.81	4.2011E-04	1.5101E-05	4.3521E-04
469226.69	3766274.33	4.2413E-04	1.8666E-05	4.4279E-04
469817.84	3766119.90	3.9573E-04	1.2934E-05	4.0866E-04
469189.68	3766168.23	4.1397E-04	1.5984E-05	4.2995E-04
469828.57	3766238.11	3.8930E-04	1.6673E-05	4.0598E-04
469168.51	3766043.77	4.1084E-04	1.2327E-05	4.2317E-04
469822.74	3766138.80	3.9097E-04	1.3405E-05	4.0437E-04
469815.74	3766342.26	3.9311E-04	1.8166E-05	4.1128E-04
469192.67	3766186.43	4.0935E-04	1.6263E-05	4.2561E-04
469798.53	3766382.68	3.9672E-04	1.7809E-05	4.1453E-04
469827.64	3766157.69	3.8588E-04	1.3851E-05	3.9973E-04
469165.34	3766025.92	4.0679E-04	1.1756E-05	4.1855E-04
469171.04	3765822.72	4.3429E-04	8.4571E-06	4.4275E-04
469833.48	3766257.00	3.8237E-04	1.6733E-05	3.9911E-04
469832.54	3766176.58	3.8131E-04	1.4260E-05	3.9557E-04
469535.88	3766495.53	4.2501E-04	1.5084E-05	4.4009E-04
469195.67	3766204.64	4.0320E-04	1.6439E-05	4.1964E-04
469754.29	3766425.74	3.9781E-04	1.6557E-05	4.1437E-04
469162.18	3766008.07	4.0234E-04	1.1208E-05	4.1354E-04
469229.68	3766292.53	4.1325E-04	1.8262E-05	4.3152E-04
469162.97	3765895.84	4.1258E-04	9.1864E-06	4.2177E-04
469555.14	3766495.64	4.1663E-04	1.4854E-05	4.3148E-04
469651.58	3766476.92	4.0112E-04	1.4804E-05	4.1592E-04
469837.44	3766195.48	3.7586E-04	1.4607E-05	3.9046E-04
469159.01	3765990.22	3.9751E-04	1.0687E-05	4.0820E-04
469198.67	3766222.84	3.9762E-04	1.6550E-05	4.1417E-04
469281.26	3766380.30	4.4954E-04	1.9234E-05	4.6877E-04
469735.62	3766430.59	3.8822E-04	1.4948E-05	4.0317E-04
469816.90	3766039.49	3.9698E-04	1.0080E-05	4.0706E-04
469812.00	3766020.59	4.0755E-04	9.8959E-06	4.1745E-04
469842.34	3766214.37	3.7055E-04	1.4900E-05	3.8545E-04
469820.64	3766361.15	3.7847E-04	1.7294E-05	3.9576E-04
469821.80	3766058.38	3.8906E-04	1.0352E-05	3.9941E-04
469772.96	3766420.90	3.8811E-04	1.6385E-05	4.0450E-04
469807.10	3766001.70	4.2417E-04	9.9048E-06	4.3408E-04
469574.41	3766495.75	4.0670E-04	1.4562E-05	4.2127E-04
469167.12	3765794.54	4.2484E-04	7.9920E-06	4.3284E-04
469826.70	3766077.27	3.8277E-04	1.0750E-05	3.9352E-04
469155.84	3765972.37	3.9241E-04	1.0193E-05	4.0260E-04
469802.20	3765982.80	4.5759E-04	1.0534E-05	4.6813E-04
469259.77	3766354.93	4.1907E-04	1.8410E-05	4.3748E-04
469201.66	3766241.05	3.9187E-04	1.6560E-05	4.0843E-04
469831.60	3766096.17	3.7708E-04	1.1190E-05	3.8827E-04
469847.24	3766233.26	3.6470E-04	1.5105E-05	3.7980E-04
469836.51	3766115.06	3.7188E-04	1.1626E-05	3.8351E-04
469843.28	3766294.79	3.6627E-04	1.6468E-05	3.8273E-04
469816.70	3766380.22	3.7365E-04	1.6861E-05	3.9051E-04
469157.47	3765860.77	3.9762E-04	8.3624E-06	4.0598E-04
469165.88	3765774.82	4.2470E-04	7.8263E-06	4.3252E-04
469841.41	3766133.95	3.6704E-04	1.2051E-05	3.7909E-04
469593.67	3766495.87	3.9484E-04	1.4220E-05	4.0906E-04
469686.18	3766469.59	3.8073E-04	1.4286E-05	3.9502E-04
469204.66	3766259.26	3.8454E-04	1.6457E-05	4.0100E-04
469846.31	3766152.85	3.6246E-04	1.2462E-05	3.7492E-04
469791.63	3766416.06	3.7336E-04	1.6057E-05	3.8942E-04
469852.14	3766252.16	3.5833E-04	1.5210E-05	3.7354E-04
469159.03	3766100.69	3.7598E-04	1.2623E-05	3.8860E-04
469851.21	3766171.74	3.5777E-04	1.2849E-05	3.7062E-04
469164.66	3766134.95	3.7580E-04	1.3441E-05	3.8924E-04

469149.41	3765933.89	3.8103E-04	9.2267E-06	3.9025E-04
469155.86	3766082.84	3.7433E-04	1.2141E-05	3.8647E-04
469235.26	3766325.61	3.9200E-04	1.7288E-05	4.0929E-04
469848.18	3766313.68	3.5789E-04	1.6188E-05	3.7408E-04
469716.84	3766454.71	3.7206E-04	1.4023E-05	3.8608E-04
469164.64	3765755.11	4.2574E-04	7.7240E-06	4.3347E-04
469167.65	3766153.15	3.7414E-04	1.3804E-05	3.8794E-04
469152.69	3766064.99	3.7232E-04	1.1659E-05	3.8398E-04
469812.76	3766399.30	3.6466E-04	1.6149E-05	3.8081E-04
469856.11	3766190.63	3.5299E-04	1.3197E-05	3.6618E-04
469170.65	3766171.36	3.7043E-04	1.4081E-05	3.8451E-04
469612.94	3766495.98	3.8167E-04	1.3850E-05	3.9552E-04
469149.52	3766047.14	3.6907E-04	1.1162E-05	3.8023E-04
469207.66	3766277.46	3.7461E-04	1.6245E-05	3.9085E-04
469151.98	3765825.70	3.8308E-04	7.6532E-06	3.9073E-04
469146.36	3766029.29	3.6605E-04	1.0692E-05	3.7675E-04
469285.01	3766402.45	4.3535E-04	1.8004E-05	4.5336E-04
469861.01	3766209.53	3.4818E-04	1.3506E-05	3.6169E-04
469173.64	3766189.57	3.6528E-04	1.4302E-05	3.7958E-04
469163.41	3765735.39	4.2881E-04	7.7050E-06	4.3652E-04
469835.57	3766034.64	3.7410E-04	9.0928E-06	3.8319E-04
469840.47	3766053.54	3.6634E-04	9.3376E-06	3.7567E-04
469830.67	3766015.75	3.8533E-04	9.0250E-06	3.9435E-04
469845.37	3766072.43	3.6020E-04	9.6760E-06	3.6988E-04
469143.19	3766011.44	3.6277E-04	1.0239E-05	3.7301E-04
469143.91	3765898.82	3.6982E-04	8.4372E-06	3.7825E-04
469825.77	3765996.86	4.0529E-04	9.2352E-06	4.1453E-04
469853.08	3766332.57	3.4788E-04	1.5730E-05	3.6361E-04
469850.27	3766091.32	3.5468E-04	1.0087E-05	3.6477E-04
469865.91	3766228.42	3.4326E-04	1.3744E-05	3.5701E-04
469861.94	3766289.94	3.4408E-04	1.5082E-05	3.5916E-04
469855.17	3766110.22	3.4992E-04	1.0491E-05	3.6041E-04
469140.02	3765993.59	3.5915E-04	9.8026E-06	3.6895E-04
469632.21	3766496.09	3.6630E-04	1.3480E-05	3.7978E-04
469860.07	3766129.11	3.4546E-04	1.0883E-05	3.5634E-04
469176.64	3766207.77	3.5632E-04	1.4456E-05	3.7078E-04
469210.65	3766295.67	3.6323E-04	1.5931E-05	3.7916E-04
469262.06	3766382.13	3.8898E-04	1.6745E-05	4.0572E-04
469162.17	3765715.68	4.3337E-04	7.7633E-06	4.4114E-04
469831.55	3766393.86	3.4695E-04	1.5471E-05	3.6242E-04
469870.81	3766247.31	3.3725E-04	1.3865E-05	3.5111E-04
469864.97	3766148.00	3.4109E-04	1.1272E-05	3.5236E-04
469136.85	3765975.74	3.5531E-04	9.3863E-06	3.6470E-04
469147.88	3765795.75	3.7263E-04	7.1641E-06	3.7979E-04
469866.85	3766308.84	3.3729E-04	1.4936E-05	3.5223E-04
469869.88	3766166.90	3.3720E-04	1.1631E-05	3.4883E-04
469179.64	3766225.98	3.5069E-04	1.4540E-05	3.6522E-04
469857.98	3766351.47	3.3761E-04	1.5218E-05	3.5282E-04
469138.42	3765863.76	3.5763E-04	7.7206E-06	3.6535E-04
469535.77	3766514.81	3.6968E-04	1.3414E-05	3.8309E-04
469516.50	3766514.70	3.7170E-04	1.3542E-05	3.8524E-04
469874.78	3766185.79	3.3286E-04	1.1974E-05	3.4483E-04
469146.64	3765776.03	3.6907E-04	6.9333E-06	3.7600E-04
469240.75	3766358.14	3.6686E-04	1.6081E-05	3.8294E-04
469854.15	3766370.01	3.3520E-04	1.5082E-05	3.5029E-04
469879.68	3766204.69	3.2854E-04	1.2274E-05	3.4081E-04
469182.63	3766244.18	3.4515E-04	1.4541E-05	3.5969E-04
469555.03	3766514.93	3.6173E-04	1.3225E-05	3.7495E-04
469766.06	3766454.28	3.4441E-04	1.4181E-05	3.5859E-04
469827.67	3766412.63	3.3767E-04	1.4820E-05	3.5249E-04
469871.75	3766327.73	3.2899E-04	1.4631E-05	3.4362E-04
469651.47	3766496.20	3.4805E-04	1.3152E-05	3.6120E-04
469130.35	3765936.87	3.4567E-04	8.5349E-06	3.5421E-04
469880.61	3766285.10	3.2606E-04	1.3945E-05	3.4000E-04
469859.14	3766048.69	3.4632E-04	8.4260E-06	3.5475E-04
469884.58	3766223.58	3.2432E-04	1.2530E-05	3.3685E-04
469864.04	3766067.59	3.4065E-04	8.7439E-06	3.4939E-04
469854.24	3766029.80	3.5361E-04	8.2600E-06	3.6187E-04
469784.73	3766449.44	3.4001E-04	1.4101E-05	3.5411E-04
469145.63	3766138.08	3.3757E-04	1.1993E-05	3.4956E-04
469145.40	3765756.32	3.6573E-04	6.7365E-06	3.7247E-04
469868.94	3766086.48	3.3562E-04	9.1240E-06	3.4474E-04

469574.30	3766515.04	3.5382E-04	1.2991E-05	3.6681E-04
469804.88	3766437.44	3.3609E-04	1.4275E-05	3.5036E-04
469140.04	3766104.06	3.3480E-04	1.1332E-05	3.4614E-04
469185.63	3766262.39	3.3937E-04	1.4465E-05	3.5384E-04
469148.62	3766156.29	3.3478E-04	1.2287E-05	3.4707E-04
469136.87	3766086.21	3.3233E-04	1.0943E-05	3.4328E-04
469701.40	3766481.44	3.3807E-04	1.2731E-05	3.5080E-04
469132.93	3765828.69	3.4512E-04	7.0873E-06	3.5220E-04
469133.70	3766068.36	3.3131E-04	1.0548E-05	3.4186E-04
469216.25	3766328.82	3.4499E-04	1.5179E-05	3.6017E-04
469889.48	3766242.47	3.1874E-04	1.2677E-05	3.3142E-04
469885.51	3766304.00	3.1919E-04	1.3815E-05	3.3301E-04
469876.65	3766346.63	3.2067E-04	1.4283E-05	3.3495E-04
469151.62	3766174.49	3.3017E-04	1.2532E-05	3.4270E-04
469593.56	3766515.15	3.4487E-04	1.2723E-05	3.5760E-04
469266.05	3766406.00	3.7036E-04	1.5579E-05	3.8594E-04
469144.16	3765736.60	3.6294E-04	6.5802E-06	3.6952E-04
469124.86	3765901.81	3.3602E-04	7.8364E-06	3.4385E-04
469295.79	3766430.03	4.5431E-04	1.7288E-05	4.7160E-04
469670.74	3766496.32	3.3511E-04	1.2901E-05	3.4801E-04
469872.85	3766364.98	3.1886E-04	1.4237E-05	3.3310E-04
469188.63	3766280.59	3.3241E-04	1.4301E-05	3.4671E-04
469823.79	3766431.41	3.2539E-04	1.4030E-05	3.3942E-04
469732.06	3766466.56	3.2839E-04	1.2568E-05	3.4096E-04
469130.54	3766050.51	3.2208E-04	1.0132E-05	3.3221E-04
469127.37	3766032.66	3.2083E-04	9.7422E-06	3.3057E-04
469154.61	3766192.70	3.2323E-04	1.2704E-05	3.3594E-04
469890.41	3766322.89	3.1262E-04	1.3644E-05	3.2627E-04
469124.20	3766014.81	3.2163E-04	9.3616E-06	3.3099E-04
469899.28	3766280.26	3.1029E-04	1.2917E-05	3.2321E-04
469869.06	3766383.34	3.1530E-04	1.4038E-05	3.2934E-04
469612.83	3766515.26	3.3490E-04	1.2430E-05	3.4733E-04
469121.03	3765996.96	3.2036E-04	8.9857E-06	3.2935E-04
469142.92	3765716.89	3.6037E-04	6.4619E-06	3.6683E-04
469128.63	3765796.96	3.3499E-04	6.6076E-06	3.4160E-04
469117.86	3765979.11	3.2100E-04	8.6292E-06	3.2963E-04
469157.61	3766210.90	3.1845E-04	1.2826E-05	3.3128E-04
469242.86	3766383.96	3.4217E-04	1.4830E-05	3.5700E-04
469119.37	3765866.74	3.2553E-04	7.2002E-06	3.3273E-04
469191.62	3766298.80	3.2412E-04	1.4053E-05	3.3818E-04
469842.65	3766425.64	3.1381E-04	1.3660E-05	3.2747E-04
469904.18	3766299.15	3.0417E-04	1.2856E-05	3.1702E-04
469895.32	3766341.78	3.0550E-04	1.3405E-05	3.1890E-04
469865.26	3766401.70	3.0996E-04	1.3707E-05	3.2367E-04
469127.39	3765777.24	3.3102E-04	6.3768E-06	3.3739E-04
469891.55	3766359.99	3.0443E-04	1.3452E-05	3.1788E-04
469160.61	3766229.11	3.1393E-04	1.2887E-05	3.2682E-04
469632.09	3766515.38	3.2388E-04	1.2148E-05	3.3602E-04
469141.68	3765697.17	3.5800E-04	6.3686E-06	3.6437E-04
469111.30	3765939.86	3.1306E-04	7.8824E-06	3.2094E-04
469221.74	3766361.35	3.2538E-04	1.4227E-05	3.3961E-04
469819.91	3766450.18	3.1064E-04	1.3161E-05	3.2380E-04
469887.79	3766378.19	3.0181E-04	1.3358E-05	3.1516E-04
469909.08	3766318.05	2.9781E-04	1.2728E-05	3.1054E-04
469126.15	3765757.53	3.2686E-04	6.1666E-06	3.3303E-04
469163.60	3766247.31	3.0955E-04	1.2892E-05	3.2244E-04
469917.95	3766275.42	2.9554E-04	1.1954E-05	3.0750E-04
469861.47	3766420.05	3.0277E-04	1.3260E-05	3.1603E-04
469113.88	3765831.67	3.1465E-04	6.6323E-06	3.2128E-04
469516.39	3766533.99	3.2797E-04	1.2132E-05	3.4010E-04
469535.65	3766534.10	3.2595E-04	1.2023E-05	3.3797E-04
469884.03	3766396.40	2.9757E-04	1.3132E-05	3.1070E-04
469140.44	3765677.45	3.5774E-04	6.3501E-06	3.6409E-04
469838.82	3766444.18	3.0180E-04	1.2936E-05	3.1473E-04
469166.60	3766265.52	3.0492E-04	1.2837E-05	3.1776E-04
469716.62	3766493.28	3.0688E-04	1.1687E-05	3.1857E-04
469913.98	3766336.94	2.9164E-04	1.2571E-05	3.0421E-04
469747.28	3766478.41	3.0379E-04	1.1682E-05	3.1547E-04
469105.81	3765904.79	3.0504E-04	7.2739E-06	3.1232E-04
469922.85	3766294.31	2.9023E-04	1.1957E-05	3.0219E-04
469124.91	3765737.81	3.2305E-04	5.9858E-06	3.2904E-04
469554.92	3766534.21	3.1861E-04	1.1864E-05	3.3047E-04

469910.25	3766355.02	2.9122E-04	1.2695E-05	3.0392E-04
469197.23	3766332.02	3.0906E-04	1.3460E-05	3.2252E-04
469126.60	3766141.21	2.9671E-04	1.0791E-05	3.0750E-04
469685.95	3766508.16	3.0552E-04	1.1914E-05	3.1744E-04
469247.10	3766409.56	3.2643E-04	1.3792E-05	3.4022E-04
469121.05	3766107.43	2.9580E-04	1.0262E-05	3.0606E-04
469651.36	3766515.49	3.0767E-04	1.1750E-05	3.1942E-04
469117.88	3766089.58	2.9533E-04	9.9505E-06	3.0528E-04
469114.72	3766071.73	2.9465E-04	9.6293E-06	3.0428E-04
469906.51	3766373.10	2.8975E-04	1.2714E-05	3.0246E-04
469129.59	3766159.42	2.9494E-04	1.1020E-05	3.0596E-04
469574.18	3766534.32	3.1219E-04	1.1673E-05	3.2387E-04
469880.26	3766414.60	2.9174E-04	1.2794E-05	3.0453E-04
469169.60	3766283.72	2.9890E-04	1.2707E-05	3.1161E-04
469284.42	3766446.53	3.7797E-04	1.4658E-05	3.9263E-04
469111.55	3766053.88	2.9118E-04	9.2895E-06	3.0046E-04
469927.75	3766313.20	2.8442E-04	1.1882E-05	2.9630E-04
469109.38	3765798.17	3.0498E-04	6.1685E-06	3.1114E-04
469123.67	3765718.10	3.1900E-04	5.8248E-06	3.2482E-04
469132.59	3766177.62	2.9166E-04	1.1213E-05	3.0287E-04
469902.77	3766391.18	2.8677E-04	1.2605E-05	2.9937E-04
469796.99	3766475.59	2.9638E-04	1.2259E-05	3.0864E-04
469139.20	3765657.74	3.6125E-04	6.4421E-06	3.6770E-04
469936.62	3766270.58	2.8161E-04	1.1051E-05	2.9266E-04
469108.38	3766036.03	2.8817E-04	8.9523E-06	2.9712E-04
469100.31	3765869.72	2.9674E-04	6.7199E-06	3.0346E-04
469816.03	3766468.96	2.9391E-04	1.2253E-05	3.0616E-04
469593.45	3766534.44	3.0500E-04	1.1430E-05	3.1643E-04
469105.21	3766018.18	2.8686E-04	8.6331E-06	2.9549E-04
469223.66	3766385.79	3.0660E-04	1.3274E-05	3.1987E-04
469102.04	3766000.33	2.8692E-04	8.3241E-06	2.9525E-04
469135.59	3766195.83	2.8675E-04	1.1363E-05	2.9811E-04
469108.14	3765778.45	3.0103E-04	5.9494E-06	3.0698E-04
469932.65	3766332.10	2.7908E-04	1.1792E-05	2.9087E-04
469928.94	3766350.07	2.7925E-04	1.1978E-05	2.9123E-04
469899.04	3766409.26	2.8195E-04	1.2356E-05	2.9430E-04
469941.52	3766289.47	2.7724E-04	1.1113E-05	2.8835E-04
469876.50	3766432.81	2.8421E-04	1.2354E-05	2.9657E-04
469172.59	3766301.93	2.8996E-04	1.2511E-05	3.0248E-04
469925.22	3766368.04	2.7817E-04	1.2051E-05	2.9022E-04
469122.43	3765698.38	3.1460E-04	5.6800E-06	3.2028E-04
469098.87	3765982.48	2.8346E-04	8.0060E-06	2.9146E-04
469258.87	3766438.83	3.2524E-04	1.3230E-05	3.3847E-04
469612.71	3766534.55	2.9615E-04	1.1140E-05	3.0729E-04
469106.90	3765758.74	2.9701E-04	5.7486E-06	3.0276E-04
469921.51	3766386.01	2.7595E-04	1.2020E-05	2.8797E-04
469202.72	3766364.55	2.9322E-04	1.2710E-05	3.0593E-04
469137.96	3765638.02	3.6926E-04	6.6544E-06	3.7591E-04
469946.42	3766308.36	2.7213E-04	1.1093E-05	2.8322E-04
469094.82	3765834.66	2.8901E-04	6.2403E-06	2.9525E-04
469138.58	3766214.03	2.7812E-04	1.1107E-05	2.8923E-04
469917.79	3766403.99	2.7279E-04	1.1907E-05	2.8470E-04
469955.28	3766265.73	2.6915E-04	1.0246E-05	2.7940E-04
469121.19	3765678.66	3.1151E-04	5.5850E-06	3.1709E-04
469951.32	3766327.26	2.6827E-04	1.1105E-05	2.7938E-04
469105.66	3765739.02	2.9318E-04	5.5704E-06	2.9875E-04
469947.62	3766345.14	2.6835E-04	1.1304E-05	2.7966E-04
469943.93	3766363.02	2.6761E-04	1.1420E-05	2.7903E-04
469960.19	3766284.63	2.6520E-04	1.0335E-05	2.7553E-04
469940.23	3766380.90	2.6597E-04	1.1450E-05	2.7741E-04
469268.10	3766454.58	3.2866E-04	1.2982E-05	3.4164E-04
469102.06	3766110.80	2.6935E-04	9.3715E-06	2.7872E-04
469516.28	3766553.27	2.9382E-04	1.0971E-05	3.0480E-04
469098.90	3766092.95	2.6888E-04	9.1101E-06	2.7799E-04
469535.54	3766553.38	2.9106E-04	1.0851E-05	3.0191E-04
469228.14	3766413.11	2.9072E-04	1.2376E-05	3.0309E-04
469701.17	3766520.01	2.7861E-04	1.0633E-05	2.8924E-04
469762.50	3766490.25	2.7436E-04	1.0712E-05	2.8507E-04
469631.98	3766534.66	2.8200E-04	1.0664E-05	2.9267E-04
469095.73	3766075.10	2.6789E-04	8.8380E-06	2.7673E-04
469090.13	3765799.38	2.7977E-04	5.7931E-06	2.8557E-04
469107.57	3766144.35	2.6710E-04	9.7902E-06	2.7689E-04

469136.72	3765618.31	3.8197E-04	6.9885E-06	3.8896E-04
469104.42	3765719.31	2.8890E-04	5.4032E-06	2.9430E-04
469092.56	3766057.25	2.6683E-04	8.5618E-06	2.7539E-04
469891.56	3766445.41	2.6751E-04	1.1547E-05	2.7906E-04
469936.54	3766398.78	2.6348E-04	1.1402E-05	2.7489E-04
469178.21	3766335.23	2.7474E-04	1.1888E-05	2.8663E-04
469110.56	3766162.55	2.6590E-04	9.9568E-06	2.7585E-04
469965.09	3766303.52	2.6057E-04	1.0350E-05	2.7092E-04
469119.95	3765658.95	3.0872E-04	5.5208E-06	3.1424E-04
469089.50	3765925.31	2.6722E-04	7.0526E-06	2.7427E-04
469089.39	3766039.40	2.6487E-04	8.2807E-06	2.7315E-04
469554.81	3766553.50	2.8337E-04	1.0709E-05	2.9408E-04
469147.57	3766268.65	2.6823E-04	1.1115E-05	2.7934E-04
469088.89	3765779.66	2.7656E-04	5.6006E-06	2.8216E-04
469144.57	3766250.45	2.6670E-04	1.0897E-05	2.7759E-04
469812.15	3766487.73	2.6958E-04	1.1255E-05	2.8084E-04
469966.04	3766341.49	2.5795E-04	1.0658E-05	2.6861E-04
469204.46	3766387.62	2.7829E-04	1.1975E-05	2.9027E-04
469086.22	3766021.55	2.6316E-04	8.0027E-06	2.7116E-04
469083.05	3766003.70	2.6340E-04	7.7382E-06	2.7113E-04
469651.25	3766534.78	2.7481E-04	1.0532E-05	2.8534E-04
469969.99	3766322.41	2.5736E-04	1.0405E-05	2.6777E-04
469973.95	3766260.89	2.5759E-04	9.5129E-06	2.6710E-04
469962.10	3766360.56	2.5734E-04	1.0809E-05	2.6815E-04
469574.07	3766553.61	2.7867E-04	1.0560E-05	2.8923E-04
469084.01	3765890.24	2.6423E-04	6.5578E-06	2.7079E-04
469103.18	3765699.59	2.8407E-04	5.2443E-06	2.8932E-04
469831.15	3766481.27	2.6603E-04	1.1197E-05	2.7723E-04
469079.88	3765985.85	2.6120E-04	7.4667E-06	2.6866E-04
469113.56	3766180.76	2.6092E-04	9.8910E-06	2.7081E-04
469932.84	3766416.66	2.5775E-04	1.1127E-05	2.6888E-04
469910.36	3766439.93	2.5958E-04	1.1200E-05	2.7078E-04
469978.85	3766279.78	2.5444E-04	9.6405E-06	2.6408E-04
469239.47	3766441.63	2.8903E-04	1.1855E-05	3.0088E-04
469087.65	3765759.95	2.7289E-04	5.4147E-06	2.7831E-04
469141.58	3766232.24	2.6178E-04	1.0292E-05	2.7208E-04
469670.51	3766534.89	2.6928E-04	1.0431E-05	2.7971E-04
469150.57	3766286.86	2.6137E-04	1.0967E-05	2.7234E-04
469593.34	3766553.72	2.7261E-04	1.0336E-05	2.8295E-04
469118.71	3765639.23	3.0688E-04	5.4938E-06	3.1237E-04
469983.75	3766298.68	2.5092E-04	9.7180E-06	2.6064E-04
469850.09	3766475.13	2.6048E-04	1.1039E-05	2.7152E-04
469286.57	3766486.08	3.2827E-04	1.2501E-05	3.4077E-04
469887.83	3766463.49	2.5729E-04	1.0975E-05	2.6827E-04
469078.51	3765855.17	2.6102E-04	6.0915E-06	2.6711E-04
469101.94	3765679.87	2.8040E-04	5.1251E-06	2.8553E-04
469086.41	3765740.23	2.6886E-04	5.2380E-06	2.7410E-04
469984.75	3766336.49	2.4799E-04	1.0021E-05	2.5801E-04
469988.65	3766317.57	2.4751E-04	9.7682E-06	2.5728E-04
469691.17	3765578.38	2.8707E-04	3.7406E-06	2.9081E-04
469980.84	3766355.40	2.4764E-04	1.0197E-05	2.5783E-04
469758.01	3766511.66	2.5839E-04	9.9351E-06	2.6833E-04
469775.53	3766503.16	2.5741E-04	1.0201E-05	2.6762E-04
469992.62	3766256.05	2.4714E-04	8.8577E-06	2.5600E-04
469929.15	3766434.54	2.5073E-04	1.0761E-05	2.6149E-04
469073.02	3765820.11	2.6074E-04	5.6636E-06	2.6641E-04
469116.56	3766198.96	2.5218E-04	9.7022E-06	2.6188E-04
469612.60	3766553.84	2.6561E-04	1.0103E-05	2.7572E-04
469976.93	3766374.31	2.4669E-04	1.0310E-05	2.5700E-04
469720.46	3765611.39	2.8283E-04	3.9451E-06	2.8678E-04
469906.65	3766457.90	2.5073E-04	1.0715E-05	2.6144E-04
469997.52	3766274.94	2.4456E-04	9.0068E-06	2.5356E-04
469085.18	3765720.51	2.6407E-04	5.0611E-06	2.6913E-04
469153.56	3766305.06	2.5280E-04	1.0596E-05	2.6339E-04
469117.47	3765619.52	3.0586E-04	5.4963E-06	3.1136E-04
469749.75	3765644.40	2.7567E-04	4.1337E-06	2.7981E-04
469209.19	3766416.67	2.6319E-04	1.1187E-05	2.7438E-04
470002.42	3766293.84	2.4158E-04	9.1112E-06	2.5069E-04
469070.89	3765800.59	2.5617E-04	5.4531E-06	2.6162E-04
469183.70	3766367.76	2.5590E-04	1.0983E-05	2.6688E-04
469100.71	3765660.16	2.7642E-04	5.0210E-06	2.8144E-04
469973.02	3766393.23	2.4245E-04	1.0197E-05	2.5265E-04

469119.55	3766217.17	2.4593E-04	9.5051E-06	2.5544E-04
470003.44	3766331.50	2.3947E-04	9.4633E-06	2.4894E-04
469069.65	3765780.87	2.5483E-04	5.2781E-06	2.6011E-04
469516.16	3766572.56	2.6581E-04	9.9730E-06	2.7579E-04
469999.56	3766350.28	2.3891E-04	9.6384E-06	2.4855E-04
470007.32	3766312.73	2.3856E-04	9.1855E-06	2.4774E-04
469687.92	3766545.67	2.5345E-04	9.7484E-06	2.6320E-04
469535.43	3766572.67	2.6306E-04	9.8654E-06	2.7293E-04
469715.10	3765592.28	2.7361E-04	3.7799E-06	2.7739E-04
469083.94	3765700.80	2.5865E-04	4.8860E-06	2.6353E-04
469070.45	3765928.29	2.4291E-04	6.6638E-06	2.4958E-04
469925.45	3766452.42	2.4210E-04	1.0301E-05	2.5240E-04
470011.29	3766251.21	2.3754E-04	8.2642E-06	2.4581E-04
469064.95	3765893.23	2.4293E-04	6.1808E-06	2.4911E-04
469073.57	3766060.62	2.3928E-04	7.7982E-06	2.4708E-04
469631.87	3766553.95	2.5238E-04	9.5854E-06	2.6197E-04
469744.39	3765625.29	2.6815E-04	3.9690E-06	2.7212E-04
469068.41	3765761.16	2.5123E-04	5.1013E-06	2.5633E-04
470016.19	3766270.10	2.3538E-04	8.4252E-06	2.4381E-04
469064.06	3766007.07	2.3881E-04	7.1835E-06	2.4599E-04
469070.40	3766042.77	2.3849E-04	7.5889E-06	2.4608E-04
469076.74	3766078.47	2.3818E-04	7.9129E-06	2.4609E-04
469067.23	3766024.92	2.3812E-04	7.3753E-06	2.4550E-04
469554.69	3766572.78	2.5581E-04	9.7413E-06	2.6555E-04
469116.23	3765599.80	3.0626E-04	5.5464E-06	3.1180E-04
469099.47	3765640.44	2.7246E-04	4.9322E-06	2.7739E-04
469969.11	3766412.14	2.3595E-04	9.9220E-06	2.4587E-04
469079.91	3766096.32	2.3695E-04	8.0252E-06	2.4498E-04
469060.89	3765989.22	2.3726E-04	6.9615E-06	2.4422E-04
470021.09	3766288.99	2.3282E-04	8.5476E-06	2.4137E-04
469902.93	3766475.87	2.3957E-04	1.0113E-05	2.4969E-04
469083.08	3766114.17	2.3599E-04	8.1304E-06	2.4412E-04
469603.29	3765479.35	2.7213E-04	3.1590E-06	2.7529E-04
469651.13	3766554.06	2.4755E-04	9.5028E-06	2.5705E-04
469773.68	3765658.30	2.6126E-04	4.1434E-06	2.6541E-04
469082.70	3765681.08	2.5577E-04	4.7816E-06	2.6055E-04
469573.96	3766572.90	2.5111E-04	9.6125E-06	2.6072E-04
469067.17	3765741.44	2.4767E-04	4.9403E-06	2.5261E-04
469122.55	3766235.37	2.3798E-04	9.2434E-06	2.4723E-04
470022.14	3766326.54	2.3058E-04	8.8931E-06	2.3948E-04
470018.28	3766345.19	2.3063E-04	9.1033E-06	2.3973E-04
469991.80	3766387.83	2.3194E-04	9.5669E-06	2.4151E-04
469884.09	3766481.57	2.3810E-04	1.0089E-05	2.4819E-04
469274.65	3766501.64	2.8242E-04	1.0947E-05	2.9337E-04
470025.99	3766307.89	2.2990E-04	8.6290E-06	2.3853E-04
469059.46	3765858.16	2.3718E-04	5.7596E-06	2.4294E-04
469185.26	3766389.44	2.4337E-04	1.0350E-05	2.5372E-04
469670.40	3766554.17	2.4347E-04	9.4249E-06	2.5290E-04
469739.03	3765606.18	2.6051E-04	3.8135E-06	2.6433E-04
469593.22	3766573.01	2.4605E-04	9.4026E-06	2.5545E-04
470029.96	3766246.36	2.2836E-04	7.7153E-06	2.3607E-04
469680.44	3765540.16	2.6227E-04	3.4200E-06	2.6569E-04
469773.77	3766523.24	2.3701E-04	9.2064E-06	2.4622E-04
469098.23	3765620.73	2.6870E-04	4.8586E-06	2.7356E-04
469065.93	3765721.72	2.4357E-04	4.7805E-06	2.4835E-04
469125.54	3766253.58	2.3366E-04	9.1742E-06	2.4284E-04
470034.86	3766265.26	2.2642E-04	7.8781E-06	2.3430E-04
469768.32	3765639.19	2.5478E-04	3.9824E-06	2.5876E-04
469921.75	3766470.30	2.3208E-04	9.7757E-06	2.4185E-04
469299.77	3766522.61	3.1846E-04	1.1565E-05	3.3003E-04
469081.46	3765661.37	2.5213E-04	4.6736E-06	2.5681E-04
469791.02	3766514.87	2.3382E-04	9.1661E-06	2.4299E-04
469088.54	3766147.48	2.2956E-04	8.1777E-06	2.3773E-04
469115.00	3765580.08	3.1006E-04	5.6907E-06	3.1575E-04
469592.34	3765462.78	2.6220E-04	3.0632E-06	2.6527E-04
470039.76	3766284.15	2.2433E-04	8.0149E-06	2.3234E-04
469827.32	3766499.81	2.3092E-04	9.2264E-06	2.4015E-04
469612.49	3766573.12	2.4033E-04	9.1858E-06	2.4951E-04
470036.99	3766340.13	2.2299E-04	8.6062E-06	2.3159E-04
469245.64	3766488.05	2.6098E-04	1.0315E-05	2.7130E-04
470040.83	3766321.59	2.2267E-04	8.3818E-06	2.3105E-04
469053.97	3765823.09	2.3162E-04	5.3737E-06	2.3700E-04

469051.39	3765931.28	2.2745E-04	6.2616E-06	2.3371E-04
469987.92	3766406.60	2.2499E-04	9.3014E-06	2.3429E-04
469159.20	3766338.44	2.3297E-04	9.4652E-06	2.4244E-04
469091.53	3766165.68	2.2709E-04	8.2334E-06	2.3532E-04
470044.66	3766303.04	2.2194E-04	8.1190E-06	2.3006E-04
470010.57	3766382.49	2.2274E-04	9.0154E-06	2.3176E-04
469050.40	3765782.08	2.3464E-04	5.0026E-06	2.3964E-04
469797.62	3765672.20	2.4783E-04	4.1403E-06	2.5197E-04
470033.16	3766358.67	2.2137E-04	8.7131E-06	2.3009E-04
469733.67	3765587.07	2.5246E-04	3.6569E-06	2.5612E-04
469128.54	3766271.78	2.2876E-04	9.0594E-06	2.3782E-04
469704.37	3765554.06	2.5376E-04	3.4768E-06	2.5724E-04
469064.69	3765702.01	2.3861E-04	4.6151E-06	2.4323E-04
469574.00	3765446.35	2.5749E-04	2.9931E-06	2.6048E-04
469190.23	3766420.22	2.3474E-04	9.9435E-06	2.4469E-04
469051.64	3765801.80	2.2956E-04	5.1684E-06	2.3473E-04
469762.96	3765620.08	2.4805E-04	3.8303E-06	2.5188E-04
469094.53	3766183.89	2.2435E-04	8.2691E-06	2.3262E-04
469080.22	3765641.65	2.4799E-04	4.5708E-06	2.5256E-04
469846.29	3766493.48	2.2537E-04	9.0292E-06	2.3440E-04
469049.16	3765762.37	2.3249E-04	4.8411E-06	2.3733E-04
469096.99	3765601.01	2.6530E-04	4.8053E-06	2.7010E-04
470048.62	3766241.52	2.1996E-04	7.2208E-06	2.2718E-04
469516.05	3766591.84	2.4238E-04	9.1093E-06	2.5149E-04
469675.08	3765521.05	2.5136E-04	3.2928E-06	2.5465E-04
470029.33	3766377.22	2.1848E-04	8.7247E-06	2.2721E-04
470053.52	3766260.42	2.1831E-04	7.3863E-06	2.2569E-04
469826.91	3765705.20	2.4059E-04	4.2746E-06	2.4487E-04
469202.19	3766449.81	2.3566E-04	9.7911E-06	2.4545E-04
469045.90	3765896.21	2.2225E-04	5.8852E-06	2.2814E-04
469535.31	3766591.96	2.3786E-04	9.0133E-06	2.4687E-04
469792.25	3765653.09	2.4227E-04	3.9848E-06	2.4626E-04
469063.45	3765682.29	2.3507E-04	4.4945E-06	2.3956E-04
470058.43	3766279.31	2.1650E-04	7.5295E-06	2.2403E-04
470051.89	3766353.54	2.1544E-04	8.3118E-06	2.2375E-04
469131.54	3766289.99	2.2337E-04	8.9083E-06	2.3227E-04
470059.51	3766316.65	2.1540E-04	7.9120E-06	2.2331E-04
469047.92	3765742.65	2.2980E-04	4.6872E-06	2.3449E-04
469097.53	3766202.09	2.2032E-04	8.2501E-06	2.2857E-04
469113.76	3765560.37	3.1704E-04	5.9153E-06	3.2295E-04
469865.21	3766487.43	2.2069E-04	8.9022E-06	2.2959E-04
469631.75	3766573.23	2.2995E-04	8.7132E-06	2.3866E-04
470063.33	3766298.20	2.1449E-04	7.6469E-06	2.2214E-04
469554.58	3766592.07	2.3292E-04	8.9117E-06	2.4183E-04
469850.84	3765719.10	2.3844E-04	4.2332E-06	2.4268E-04
469789.42	3766534.88	2.2198E-04	8.5648E-06	2.3054E-04
469757.60	3765600.97	2.4129E-04	3.6825E-06	2.4497E-04
469772.38	3766543.15	2.2206E-04	8.5321E-06	2.3059E-04
469221.03	3766481.96	2.3848E-04	9.5419E-06	2.4802E-04
469699.01	3765534.95	2.4327E-04	3.3352E-06	2.4660E-04
469645.79	3765488.04	2.4498E-04	3.1143E-06	2.4809E-04
469806.45	3766526.62	2.2003E-04	8.5333E-06	2.2857E-04
470048.08	3766371.98	2.1219E-04	8.3193E-06	2.2051E-04
469821.55	3765686.10	2.3534E-04	4.1212E-06	2.3946E-04
469651.02	3766573.35	2.2605E-04	8.6593E-06	2.3471E-04
469262.60	3766516.98	2.5245E-04	9.8030E-06	2.6226E-04
469054.58	3766063.99	2.1547E-04	6.9731E-06	2.2245E-04
469078.98	3765621.93	2.4336E-04	4.4664E-06	2.4782E-04
469100.52	3766220.30	2.1714E-04	8.2362E-06	2.2538E-04
469573.85	3766592.18	2.2933E-04	8.8050E-06	2.3814E-04
469040.41	3765861.14	2.1759E-04	5.4939E-06	2.2308E-04
469051.41	3766046.14	2.1494E-04	6.8317E-06	2.2177E-04
469057.75	3766081.84	2.1439E-04	7.0849E-06	2.2148E-04
469062.21	3765662.58	2.3230E-04	4.4023E-06	2.3670E-04
469786.89	3765633.98	2.3642E-04	3.8366E-06	2.4026E-04
469060.92	3766099.69	2.1416E-04	7.2054E-06	2.2137E-04
469048.24	3766028.29	2.1416E-04	6.6853E-06	2.2085E-04
469095.75	3765581.29	2.6297E-04	4.7918E-06	2.6776E-04
469134.53	3766308.19	2.1754E-04	8.7235E-06	2.2626E-04
469302.57	3766542.96	3.1108E-04	1.0988E-05	3.2207E-04
469046.68	3765722.93	2.2482E-04	4.5332E-06	2.2936E-04
470006.72	3766401.15	2.1194E-04	8.6158E-06	2.2056E-04

469045.07	3766010.44	2.1307E-04	6.5355E-06	2.1961E-04
469593.11	3766592.29	2.2538E-04	8.6443E-06	2.3402E-04
469669.72	3765501.94	2.4018E-04	3.1689E-06	2.4335E-04
469064.09	3766117.54	2.1210E-04	7.2832E-06	2.1938E-04
469845.48	3765699.99	2.3216E-04	4.0887E-06	2.3625E-04
469230.45	3766498.03	2.3708E-04	9.3811E-06	2.4646E-04
469103.52	3766238.50	2.1312E-04	8.1814E-06	2.2130E-04
469041.91	3765992.59	2.1148E-04	6.3844E-06	2.1787E-04
469816.18	3765666.99	2.3055E-04	3.9756E-06	2.3453E-04
470025.50	3766395.76	2.0893E-04	8.3686E-06	2.1730E-04
469164.69	3766370.97	2.1808E-04	8.8839E-06	2.2696E-04
469568.63	3765427.24	2.3996E-04	2.8780E-06	2.4284E-04
469752.24	3765581.86	2.3400E-04	3.5375E-06	2.3754E-04
469722.94	3765548.85	2.3531E-04	3.3823E-06	2.3869E-04
469037.83	3765969.33	2.1062E-04	6.1913E-06	2.1681E-04
469612.38	3766592.41	2.2110E-04	8.4939E-06	2.2960E-04
469544.70	3765413.34	2.3818E-04	2.8348E-06	2.4102E-04
469781.53	3765614.87	2.3050E-04	3.6966E-06	2.3419E-04
469034.92	3765826.08	2.1204E-04	5.0993E-06	2.1714E-04
469077.74	3765602.22	2.3848E-04	4.3677E-06	2.4285E-04
469060.97	3765642.86	2.2831E-04	4.2948E-06	2.3260E-04
469842.50	3766511.84	2.1126E-04	8.3204E-06	2.1958E-04
470044.26	3766390.43	2.0555E-04	8.1240E-06	2.1368E-04
469874.77	3765733.00	2.2735E-04	4.1648E-06	2.3151E-04
469693.65	3765515.84	2.3412E-04	3.2268E-06	2.3734E-04
469069.51	3766150.61	2.0757E-04	7.3657E-06	2.1494E-04
469631.64	3766592.52	2.1771E-04	8.3749E-06	2.2609E-04
469106.51	3766256.71	2.0840E-04	8.0909E-06	2.1649E-04
469032.34	3765934.26	2.0767E-04	5.9126E-06	2.1358E-04
469239.88	3766514.10	2.3434E-04	9.1696E-06	2.4351E-04
469640.43	3765468.93	2.3292E-04	2.9997E-06	2.3592E-04
469810.82	3765647.88	2.2548E-04	3.8330E-06	2.2931E-04
469044.20	3765683.50	2.1787E-04	4.2597E-06	2.2213E-04
469094.51	3765561.58	2.6150E-04	4.8073E-06	2.6630E-04
469032.39	3765803.01	2.0908E-04	4.8992E-06	2.1398E-04
469072.50	3766168.81	2.0516E-04	7.3989E-06	2.1256E-04
469045.44	3765703.22	2.1545E-04	4.3869E-06	2.1984E-04
469201.02	3766483.70	2.2052E-04	8.8064E-06	2.2933E-04
469861.45	3766505.63	2.0609E-04	8.1327E-06	2.1422E-04
469140.18	3766341.65	2.0847E-04	8.3953E-06	2.1686E-04
469664.36	3765482.83	2.2969E-04	3.0586E-06	2.3274E-04
469031.15	3765783.29	2.0830E-04	4.7498E-06	2.1305E-04
469535.20	3766611.24	2.2028E-04	8.2928E-06	2.2857E-04
469026.85	3765899.19	2.0481E-04	5.6315E-06	2.1045E-04
469869.41	3765713.89	2.2157E-04	4.0439E-06	2.2561E-04
469776.17	3765595.76	2.2433E-04	3.5545E-06	2.2788E-04
469840.11	3765680.88	2.1995E-04	3.9502E-06	2.2391E-04
469075.50	3766187.02	2.0291E-04	7.4243E-06	2.1033E-04
469059.73	3765623.14	2.2378E-04	4.1864E-06	2.2797E-04
469717.58	3765529.74	2.2629E-04	3.2627E-06	2.2955E-04
469166.06	3766391.27	2.0975E-04	8.5038E-06	2.1826E-04
469029.91	3765763.58	2.0798E-04	4.6067E-06	2.1258E-04
469109.51	3766274.92	2.0409E-04	7.9910E-06	2.1208E-04
469076.50	3765582.50	2.3518E-04	4.3158E-06	2.3950E-04
469042.96	3765663.79	2.1470E-04	4.1568E-06	2.1885E-04
469805.46	3765628.77	2.2021E-04	3.6967E-06	2.2390E-04
469028.67	3765743.86	2.0833E-04	4.4653E-06	2.1279E-04
469554.47	3766611.35	2.1492E-04	8.2065E-06	2.2313E-04
469249.30	3766530.17	2.2980E-04	8.9141E-06	2.3871E-04
469021.35	3765864.13	2.0225E-04	5.3324E-06	2.0758E-04
469788.11	3766554.75	2.0445E-04	7.8645E-06	2.1232E-04
469804.98	3766546.56	2.0371E-04	7.8659E-06	2.1158E-04
469293.71	3766559.05	2.5478E-04	9.4051E-06	2.6419E-04
469688.29	3765496.73	2.2410E-04	3.1094E-06	2.2721E-04
469078.50	3766205.23	2.0001E-04	7.4187E-06	2.0743E-04
469821.84	3766538.38	2.0237E-04	7.8449E-06	2.1021E-04
469771.25	3766562.93	2.0414E-04	7.8249E-06	2.1197E-04
469573.73	3766611.47	2.1249E-04	8.1193E-06	2.2061E-04
469032.42	3766049.51	1.9881E-04	6.3282E-06	2.0513E-04
469311.21	3766565.45	3.3932E-04	1.1263E-05	3.5059E-04
469029.25	3766031.66	1.9837E-04	6.2084E-06	2.0458E-04
469035.59	3766067.36	1.9783E-04	6.4247E-06	2.0425E-04

469864.05	3765694.78	2.1598E-04	3.9138E-06	2.1989E-04
469834.75	3765661.77	2.1513E-04	3.8183E-06	2.1895E-04
469898.70	3765746.90	2.1562E-04	3.9632E-06	2.1959E-04
469038.76	3766085.21	1.9690E-04	6.5126E-06	2.0342E-04
469563.27	3765408.13	2.2319E-04	2.7604E-06	2.2595E-04
469276.22	3766552.65	2.3495E-04	8.9186E-06	2.4387E-04
469093.27	3765541.86	2.6072E-04	4.8410E-06	2.6556E-04
469770.80	3765576.65	2.1774E-04	3.4277E-06	2.2117E-04
469112.51	3766293.12	1.9919E-04	7.8538E-06	2.0705E-04
469041.93	3766103.06	1.9629E-04	6.6011E-06	2.0289E-04
469741.51	3765543.64	2.1868E-04	3.2882E-06	2.2197E-04
469026.09	3766013.81	1.9652E-04	6.0743E-06	2.0259E-04
469857.69	3766523.84	1.9835E-04	7.7419E-06	2.0610E-04
469635.06	3765449.82	2.2104E-04	2.8899E-06	2.2393E-04
469058.49	3765603.43	2.1870E-04	4.0741E-06	2.2277E-04
469041.72	3765644.07	2.1155E-04	4.0641E-06	2.1561E-04
469081.49	3766223.43	1.9653E-04	7.3811E-06	2.0391E-04
469800.10	3765609.66	2.1492E-04	3.5662E-06	2.1848E-04
469219.15	3766514.64	2.1481E-04	8.4676E-06	2.2328E-04
469022.92	3765995.96	1.9539E-04	5.9490E-06	2.0134E-04
469539.34	3765394.23	2.2076E-04	2.7230E-06	2.2348E-04
469965.20	3766431.05	1.9476E-04	7.6154E-06	2.0237E-04
469658.99	3765463.72	2.1926E-04	2.9535E-06	2.2221E-04
469712.22	3765510.63	2.1753E-04	3.1417E-06	2.2067E-04
469045.10	3766120.91	1.9419E-04	6.6512E-06	2.0084E-04
469015.86	3765829.06	1.9738E-04	5.0713E-06	2.0245E-04
469893.34	3765727.79	2.1156E-04	3.9267E-06	2.1549E-04
469018.78	3765972.31	1.9435E-04	5.7873E-06	2.0014E-04
469899.22	3766493.85	1.9522E-04	7.6982E-06	2.0291E-04
469075.26	3765562.79	2.3218E-04	4.2860E-06	2.3647E-04
469829.39	3765642.67	2.1051E-04	3.6874E-06	2.1419E-04
469027.43	3765724.14	2.0005E-04	4.3176E-06	2.0437E-04
469168.74	3766410.26	2.0055E-04	8.0984E-06	2.0865E-04
469876.62	3766517.73	1.9371E-04	7.5782E-06	2.0129E-04
469084.49	3766241.64	1.9321E-04	7.3355E-06	2.0055E-04
469115.50	3766311.33	1.9433E-04	7.7030E-06	2.0203E-04
469145.67	3766374.18	1.9671E-04	7.9287E-06	2.0463E-04
469682.92	3765477.62	2.1445E-04	2.9951E-06	2.1744E-04
469013.14	3765804.22	1.9471E-04	4.7679E-06	1.9947E-04
470032.83	3766445.76	1.9036E-04	7.7064E-06	1.9806E-04
469858.68	3765675.67	2.0630E-04	3.7888E-06	2.1009E-04
469887.98	3765708.68	2.0699E-04	3.8682E-06	2.1086E-04
470029.02	3766464.21	1.9040E-04	7.7252E-06	1.9812E-04
469794.73	3765590.55	2.0927E-04	3.4339E-06	2.1271E-04
469040.48	3765624.35	2.0740E-04	3.9581E-06	2.1136E-04
469514.15	3765378.61	2.1491E-04	2.6708E-06	2.1758E-04
469979.73	3766531.71	1.9021E-04	7.9062E-06	1.9811E-04
469736.15	3765524.53	2.1068E-04	3.1668E-06	2.1385E-04
469057.25	3765583.71	2.1526E-04	4.0075E-06	2.1927E-04
469013.29	3765937.25	1.9024E-04	5.5572E-06	1.9580E-04
469011.90	3765784.50	1.9306E-04	4.5838E-06	1.9765E-04
469918.06	3766488.18	1.8989E-04	7.4613E-06	1.9735E-04
469092.03	3765522.15	2.6139E-04	4.9112E-06	2.6630E-04
469824.03	3765623.56	2.0575E-04	3.5621E-06	2.0932E-04
469087.49	3766259.84	1.8947E-04	7.2623E-06	1.9673E-04
470010.17	3766469.93	1.8797E-04	7.7398E-06	1.9571E-04
469026.19	3765704.43	1.9566E-04	4.1794E-06	1.9984E-04
469190.03	3766500.85	2.0092E-04	8.0169E-06	2.0894E-04
469820.47	3766558.27	1.9081E-04	7.3595E-06	1.9817E-04
469007.79	3765902.18	1.8897E-04	5.3289E-06	1.9430E-04
469803.75	3766566.39	1.9119E-04	7.3502E-06	1.9854E-04
469706.86	3765491.52	2.0904E-04	3.0274E-06	2.1207E-04
469296.88	3766579.53	2.3771E-04	8.7204E-06	2.4643E-04
469837.20	3766550.16	1.8968E-04	7.3395E-06	1.9702E-04
469053.47	3766171.95	1.8684E-04	6.6978E-06	1.9354E-04
469787.02	3766574.51	1.9107E-04	7.3227E-06	1.9839E-04
469050.48	3766153.74	1.8667E-04	6.6192E-06	1.9329E-04
469629.70	3765430.71	2.0978E-04	2.7873E-06	2.1257E-04
469882.61	3765689.57	2.0235E-04	3.7507E-06	2.0610E-04
469010.66	3765764.79	1.9088E-04	4.3827E-06	1.9526E-04
469605.77	3765416.81	2.0929E-04	2.7354E-06	2.1203E-04
469237.29	3766545.58	2.0999E-04	8.1202E-06	2.1811E-04

469002.30	3765867.11	1.8799E-04	5.0694E-06	1.9306E-04
469960.76	3766538.02	1.8773E-04	7.7307E-06	1.9546E-04
469074.02	3765543.07	2.2890E-04	4.2502E-06	2.3315E-04
469853.32	3765656.56	2.0130E-04	3.6680E-06	2.0497E-04
469653.63	3765444.61	2.0869E-04	2.8483E-06	2.1154E-04
469975.88	3766550.36	1.8617E-04	7.7632E-06	1.9393E-04
469917.27	3765741.69	2.0170E-04	3.7811E-06	2.0548E-04
469173.81	3766437.30	1.9372E-04	7.7550E-06	2.0147E-04
469994.84	3766544.10	1.8492E-04	7.7089E-06	1.9263E-04
469039.24	3765604.64	2.0251E-04	3.8434E-06	2.0635E-04
469056.47	3766190.15	1.8471E-04	6.7104E-06	1.9142E-04
469998.67	3766525.56	1.8501E-04	7.6249E-06	1.9263E-04
469760.08	3765538.43	2.0393E-04	3.1885E-06	2.0712E-04
469024.95	3765684.71	1.9260E-04	4.0527E-06	1.9665E-04
469022.47	3765645.28	1.9622E-04	3.8454E-06	2.0007E-04
469961.29	3766449.97	1.8293E-04	7.1891E-06	1.9012E-04
469090.48	3766278.05	1.8525E-04	7.1615E-06	1.9241E-04
469818.67	3765604.45	2.0095E-04	3.4412E-06	2.0439E-04
469872.88	3766535.81	1.8522E-04	7.2059E-06	1.9242E-04
469009.42	3765745.07	1.8875E-04	4.2537E-06	1.9301E-04
469146.86	3766393.10	1.8862E-04	7.5905E-06	1.9621E-04
469677.56	3765458.51	2.0504E-04	2.8863E-06	2.0793E-04
469911.91	3765722.58	1.9868E-04	3.7741E-06	2.0245E-04
469263.20	3766567.21	2.1193E-04	8.0770E-06	2.2000E-04
469956.88	3766556.80	1.8449E-04	7.6361E-06	1.9212E-04
469059.47	3766208.36	1.8323E-04	6.7305E-06	1.8996E-04
469730.79	3765505.42	2.0314E-04	3.0532E-06	2.0619E-04
469914.36	3766506.06	1.8337E-04	7.1832E-06	1.9055E-04
469056.01	3765564.00	2.1201E-04	3.9599E-06	2.1596E-04
469010.26	3766035.03	1.8236E-04	5.7522E-06	1.8811E-04
469013.43	3766052.88	1.8219E-04	5.8410E-06	1.8803E-04
469121.16	3766344.86	1.8542E-04	7.3951E-06	1.9282E-04
469847.96	3765637.45	1.9709E-04	3.5481E-06	2.0064E-04
469207.62	3766530.85	1.9770E-04	7.7406E-06	2.0544E-04
469016.60	3766070.73	1.8126E-04	5.9136E-06	1.8717E-04
468996.81	3765832.04	1.8426E-04	4.8399E-06	1.8910E-04
469023.71	3765665.00	1.9120E-04	3.9418E-06	1.9514E-04
470013.77	3766537.99	1.8122E-04	7.5066E-06	1.8872E-04
469019.77	3766088.58	1.8057E-04	5.9853E-06	1.8656E-04
469891.79	3766529.79	1.8215E-04	7.0967E-06	1.8924E-04
469984.04	3766425.38	1.8028E-04	7.0264E-06	1.8731E-04
469007.10	3766017.18	1.8071E-04	5.6402E-06	1.8635E-04
469090.79	3765502.43	2.6458E-04	5.0444E-06	2.6963E-04
469532.51	3765372.70	2.0288E-04	2.6002E-06	2.0548E-04
469062.46	3766226.56	1.8093E-04	6.7189E-06	1.8765E-04
469008.18	3765725.35	1.8632E-04	4.1267E-06	1.9045E-04
469701.49	3765472.41	2.0063E-04	2.9186E-06	2.0355E-04
470025.20	3766482.65	1.7994E-04	7.3609E-06	1.8730E-04
469022.94	3766106.43	1.7936E-04	6.0413E-06	1.8540E-04
469021.24	3765625.56	1.9298E-04	3.7559E-06	1.9674E-04
469093.48	3766296.25	1.8113E-04	7.0496E-06	1.8818E-04
469957.38	3766468.88	1.7875E-04	7.0092E-06	1.8576E-04
469906.54	3765703.47	1.9451E-04	3.7041E-06	1.9822E-04
469784.01	3765552.33	1.9722E-04	3.2043E-06	2.0043E-04
468993.89	3765805.43	1.8262E-04	4.6566E-06	1.8728E-04
469877.25	3765670.46	1.9292E-04	3.6364E-06	1.9656E-04
469813.30	3765585.34	1.9583E-04	3.3222E-06	1.9915E-04
469038.00	3765584.92	1.9884E-04	3.7635E-06	2.0261E-04
469003.93	3765999.33	1.7875E-04	5.5290E-06	1.8428E-04
469072.78	3765523.35	2.2620E-04	4.2281E-06	2.3043E-04
469026.11	3766124.28	1.7814E-04	6.0914E-06	1.8423E-04
469835.92	3766570.01	1.8154E-04	6.9872E-06	1.8853E-04
469754.72	3765519.32	1.9700E-04	3.0737E-06	2.0007E-04
469819.32	3766578.07	1.8201E-04	6.9857E-06	1.8899E-04
469991.00	3766562.64	1.7874E-04	7.4401E-06	1.8618E-04
469065.46	3766244.77	1.7852E-04	6.6951E-06	1.8522E-04
470009.95	3766556.43	1.7778E-04	7.3941E-06	1.8517E-04
469802.71	3766586.13	1.8192E-04	6.9637E-06	1.8888E-04
469624.34	3765411.60	1.9932E-04	2.6968E-06	2.0202E-04
468992.65	3765785.71	1.8135E-04	4.5495E-06	1.8590E-04
469980.16	3766444.15	1.7619E-04	6.8819E-06	1.8307E-04
469842.60	3765618.35	1.9282E-04	3.4330E-06	1.9625E-04

469972.02	3766569.01	1.7851E-04	7.4099E-06	1.8592E-04
469006.95	3765705.64	1.8412E-04	4.0063E-06	1.8813E-04
469648.27	3765425.50	1.9849E-04	2.7466E-06	2.0124E-04
469910.67	3766523.94	1.7797E-04	6.9373E-06	1.8491E-04
469600.41	3765397.70	1.9818E-04	2.6432E-06	2.0082E-04
468999.73	3765975.30	1.7675E-04	5.3906E-06	1.8214E-04
469852.53	3766561.95	1.7878E-04	6.9020E-06	1.8568E-04
469725.42	3765486.31	1.9563E-04	2.9447E-06	1.9857E-04
469485.09	3765351.29	1.9736E-04	2.5463E-06	1.9990E-04
469786.10	3766594.19	1.8046E-04	6.8923E-06	1.8735E-04
469054.77	3765544.28	2.0806E-04	3.8970E-06	2.1196E-04
468991.42	3765766.00	1.7990E-04	4.4453E-06	1.8435E-04
469299.32	3766599.75	2.2304E-04	8.1218E-06	2.3116E-04
469672.20	3765439.40	1.9588E-04	2.7830E-06	1.9866E-04
469901.18	3765684.36	1.8973E-04	3.5966E-06	1.9332E-04
469953.00	3766575.57	1.7704E-04	7.3031E-06	1.8435E-04
469149.79	3766413.81	1.8034E-04	7.2521E-06	1.8759E-04
470017.58	3766519.54	1.7603E-04	7.1859E-06	1.8321E-04
469871.89	3765651.35	1.8884E-04	3.5247E-06	1.9236E-04
469096.47	3766314.46	1.7658E-04	6.9105E-06	1.8349E-04
468994.23	3765940.23	1.7512E-04	5.2104E-06	1.8033E-04
469953.47	3766487.79	1.7414E-04	6.8078E-06	1.8095E-04
470002.86	3766419.80	1.7299E-04	6.6958E-06	1.7969E-04
469020.00	3765605.85	1.8822E-04	3.6394E-06	1.9186E-04
469068.46	3766262.97	1.7470E-04	6.6155E-06	1.8132E-04
469005.71	3765685.92	1.8143E-04	3.8890E-06	1.8532E-04
469976.28	3766462.92	1.7297E-04	6.7518E-06	1.7973E-04
468990.18	3765746.28	1.7846E-04	4.3144E-06	1.8278E-04
469778.65	3765533.22	1.9075E-04	3.0885E-06	1.9384E-04
468988.74	3765905.16	1.7445E-04	5.0268E-06	1.7947E-04
469888.08	3766547.76	1.7477E-04	6.7746E-06	1.8154E-04
469003.23	3765646.49	1.8415E-04	3.6827E-06	1.8783E-04
469225.21	3766560.85	1.9189E-04	7.4098E-06	1.9930E-04
469837.23	3765599.24	1.8846E-04	3.3207E-06	1.9178E-04
469126.65	3766377.39	1.7674E-04	7.0609E-06	1.8380E-04
469696.13	3765453.30	1.9243E-04	2.8152E-06	1.9525E-04
469036.77	3765565.21	1.9620E-04	3.7191E-06	1.9992E-04
468983.25	3765870.10	1.7456E-04	4.8211E-06	1.7939E-04
469266.66	3766587.80	1.9993E-04	7.5599E-06	2.0749E-04
469089.55	3765482.71	2.7176E-04	5.2755E-06	2.7704E-04
469749.35	3765500.21	1.9026E-04	2.9656E-06	1.9322E-04
469937.84	3766563.45	1.7467E-04	7.2119E-06	1.8188E-04
469183.53	3766525.66	1.8208E-04	7.2778E-06	1.8936E-04
469550.87	3765366.79	1.9200E-04	2.5417E-06	1.9454E-04
469071.54	3765503.64	2.2417E-04	4.2272E-06	2.2840E-04
469999.01	3766438.45	1.7014E-04	6.6003E-06	1.7674E-04
470006.14	3766574.88	1.7163E-04	7.1295E-06	1.7876E-04
469004.47	3765666.21	1.7992E-04	3.7826E-06	1.8370E-04
469866.53	3765632.24	1.8506E-04	3.4153E-06	1.8847E-04
469987.17	3766581.18	1.7151E-04	7.1118E-06	1.7862E-04
468988.94	3765726.56	1.7528E-04	4.0156E-06	1.7929E-04
469949.56	3766506.71	1.6989E-04	6.6194E-06	1.7651E-04
469720.06	3765467.20	1.8828E-04	2.8420E-06	1.9112E-04
469972.40	3766481.70	1.6908E-04	6.5874E-06	1.7567E-04
469031.45	3766156.87	1.6943E-04	5.9910E-06	1.7542E-04
470014.00	3766451.39	1.6987E-04	6.4676E-06	1.7634E-04
469053.53	3765524.56	2.0449E-04	3.8434E-06	2.0833E-04
469001.99	3765626.77	1.8088E-04	3.5899E-06	1.8447E-04
469995.15	3766457.10	1.6931E-04	6.5185E-06	1.7583E-04
469018.76	3765586.13	1.8440E-04	3.5502E-06	1.8795E-04
469618.98	3765392.49	1.8916E-04	2.6080E-06	1.9177E-04
469895.82	3765665.25	1.8189E-04	3.4909E-06	1.8538E-04
469642.91	3765406.39	1.8871E-04	2.6497E-06	1.9136E-04
469802.58	3765547.12	1.8465E-04	3.0993E-06	1.8775E-04
469968.17	3766587.66	1.7042E-04	7.0353E-06	1.7746E-04
469831.87	3765580.13	1.8371E-04	3.2126E-06	1.8693E-04
469503.45	3765345.38	1.8836E-04	2.4909E-06	1.9085E-04
469037.44	3766193.28	1.6830E-04	6.0750E-06	1.7438E-04
469851.34	3766581.76	1.7200E-04	6.5935E-06	1.7860E-04
469034.44	3766175.08	1.6805E-04	6.0103E-06	1.7407E-04
469773.29	3765514.11	1.8469E-04	2.9812E-06	1.8768E-04
470021.66	3766414.30	1.6644E-04	6.3855E-06	1.7283E-04

469666.84	3765420.29	1.8697E-04	2.6850E-06	1.8966E-04
469193.06	3766541.91	1.7878E-04	7.1226E-06	1.8591E-04
469071.45	3766281.18	1.6855E-04	6.4392E-06	1.7499E-04
469595.05	3765378.60	1.8717E-04	2.5518E-06	1.8972E-04
468987.70	3765706.85	1.7333E-04	3.8428E-06	1.7717E-04
469861.16	3765613.13	1.8119E-04	3.3095E-06	1.8450E-04
469867.85	3766573.75	1.6947E-04	6.5243E-06	1.7599E-04
468991.28	3766038.41	1.6687E-04	5.3216E-06	1.7219E-04
468994.44	3766056.26	1.6660E-04	5.3887E-06	1.7198E-04
469154.86	3766440.85	1.7250E-04	6.9027E-06	1.7940E-04
469035.53	3765545.49	1.9238E-04	3.6504E-06	1.9603E-04
468985.22	3765667.42	1.7593E-04	3.6403E-06	1.7957E-04
469040.44	3766211.49	1.6661E-04	6.0771E-06	1.7268E-04
469202.59	3766558.16	1.8029E-04	6.9905E-06	1.8728E-04
469743.99	3765481.10	1.8364E-04	2.8633E-06	1.8650E-04
469834.83	3766589.77	1.6999E-04	6.5900E-06	1.7658E-04
469102.14	3766348.07	1.6860E-04	6.6423E-06	1.7524E-04
468997.61	3766074.11	1.6581E-04	5.4437E-06	1.7125E-04
468988.11	3766020.56	1.6591E-04	5.2354E-06	1.7115E-04
468977.76	3765835.03	1.6786E-04	4.6926E-06	1.7256E-04
469690.77	3765434.19	1.8439E-04	2.7169E-06	1.8710E-04
468986.46	3765687.13	1.7269E-04	3.7405E-06	1.7643E-04
470017.83	3766432.84	1.6447E-04	6.3277E-06	1.7079E-04
469968.52	3766500.47	1.6559E-04	6.4338E-06	1.7203E-04
469991.30	3766475.75	1.6589E-04	6.3895E-06	1.7228E-04
469000.78	3766091.96	1.6479E-04	5.4898E-06	1.7028E-04
469890.46	3765646.14	1.7761E-04	3.3874E-06	1.8100E-04
468974.65	3765806.64	1.6725E-04	4.5416E-06	1.7180E-04
469945.65	3766525.62	1.6533E-04	6.4148E-06	1.7175E-04
468973.41	3765786.92	1.6765E-04	4.4311E-06	1.7209E-04
469000.75	3765607.06	1.7687E-04	3.4870E-06	1.8035E-04
469949.12	3766594.35	1.6710E-04	6.8191E-06	1.7392E-04
468972.17	3765767.21	1.6841E-04	4.2962E-06	1.7270E-04
469310.09	3766623.02	2.3475E-04	8.1293E-06	2.4288E-04
469292.40	3766616.55	2.0206E-04	7.4075E-06	2.0946E-04
468984.94	3766002.71	1.6427E-04	5.1439E-06	1.6942E-04
469903.28	3766559.70	1.6602E-04	6.4100E-06	1.7243E-04
470002.33	3766593.32	1.6486E-04	6.8310E-06	1.7169E-04
469070.30	3765483.92	2.2329E-04	4.2600E-06	2.2755E-04
469003.95	3766109.81	1.6373E-04	5.5305E-06	1.6926E-04
469017.52	3765566.42	1.8318E-04	3.5300E-06	1.8671E-04
469569.22	3765360.87	1.8294E-04	2.4922E-06	1.8543E-04
468983.98	3765647.70	1.7363E-04	3.5397E-06	1.7717E-04
469797.22	3765528.01	1.7893E-04	2.9919E-06	1.8192E-04
469714.70	3765448.09	1.8109E-04	2.7446E-06	1.8384E-04
469855.80	3765594.03	1.7721E-04	3.2053E-06	1.8041E-04
469129.25	3766406.15	1.6722E-04	6.6642E-06	1.7388E-04
469052.30	3765504.85	2.0116E-04	3.8006E-06	2.0496E-04
468970.93	3765747.49	1.6749E-04	4.1748E-06	1.7166E-04
469007.12	3766127.66	1.6267E-04	5.5664E-06	1.6823E-04
469274.71	3766610.08	1.9040E-04	7.1300E-06	1.9753E-04
469043.43	3766229.70	1.6299E-04	6.0091E-06	1.6900E-04
469767.92	3765495.00	1.7869E-04	2.8786E-06	1.8157E-04
469983.34	3766599.73	1.6382E-04	6.7592E-06	1.7058E-04
468980.67	3765978.28	1.6245E-04	5.0339E-06	1.6748E-04
469212.11	3766574.41	1.7734E-04	6.8300E-06	1.8417E-04
469922.68	3766551.28	1.6397E-04	6.3281E-06	1.7030E-04
469074.45	3766299.38	1.6327E-04	6.2776E-06	1.6955E-04
469456.03	3765323.97	1.8058E-04	2.4348E-06	1.8302E-04
470040.45	3766408.87	1.6122E-04	6.1102E-06	1.6733E-04
469257.02	3766603.60	1.8375E-04	6.9546E-06	1.9070E-04
469885.10	3765627.03	1.7417E-04	3.2883E-06	1.7746E-04
468969.69	3765727.77	1.6624E-04	4.0372E-06	1.7028E-04
469983.59	3766513.06	1.6235E-04	6.2771E-06	1.6862E-04
469987.44	3766494.40	1.6185E-04	6.2430E-06	1.6809E-04
469034.29	3765525.77	1.8848E-04	3.5815E-06	1.9206E-04
469521.80	3765339.46	1.7969E-04	2.4378E-06	1.8213E-04
469637.54	3765387.28	1.7936E-04	2.5577E-06	1.8192E-04
469964.64	3766519.25	1.6180E-04	6.2545E-06	1.6805E-04
468975.18	3765943.22	1.6119E-04	4.8994E-06	1.6609E-04
469613.61	3765373.38	1.7930E-04	2.5202E-06	1.8182E-04
469738.63	3765461.99	1.7716E-04	2.7662E-06	1.7993E-04

469661.48	3765401.18	1.7836E-04	2.5919E-06	1.8095E-04
468982.74	3765627.98	1.7035E-04	3.4452E-06	1.7380E-04
468964.19	3765873.08	1.6148E-04	4.5755E-06	1.6605E-04
468999.51	3765587.34	1.7315E-04	3.3963E-06	1.7655E-04
469239.33	3766597.13	1.7908E-04	6.8157E-06	1.8589E-04
470036.64	3766427.32	1.5904E-04	6.0617E-06	1.6510E-04
468969.69	3765908.15	1.6061E-04	4.7546E-06	1.6537E-04
469964.31	3766606.31	1.6167E-04	6.6241E-06	1.6829E-04
469850.44	3765574.92	1.7285E-04	3.1046E-06	1.7596E-04
469685.41	3765415.08	1.7649E-04	2.6231E-06	1.7912E-04
469866.73	3766593.52	1.6215E-04	6.2075E-06	1.6835E-04
469821.15	3765541.91	1.7287E-04	2.9976E-06	1.7587E-04
469941.75	3766544.53	1.6014E-04	6.1986E-06	1.6634E-04
469016.28	3765546.70	1.7941E-04	3.4551E-06	1.8287E-04
469791.85	3765508.90	1.7317E-04	2.8920E-06	1.7606E-04
469077.44	3766317.59	1.5979E-04	6.1743E-06	1.6596E-04
469883.15	3766585.55	1.6063E-04	6.1647E-06	1.6680E-04
469879.73	3765607.92	1.7067E-04	3.1910E-06	1.7386E-04
468968.45	3765708.06	1.6337E-04	3.7752E-06	1.6714E-04
469107.63	3766380.60	1.6053E-04	6.3419E-06	1.6687E-04
470006.33	3766488.47	1.5820E-04	6.0315E-06	1.6423E-04
469762.56	3765475.89	1.7289E-04	2.7837E-06	1.7568E-04
469069.06	3765464.21	2.2368E-04	4.3227E-06	2.2801E-04
469709.34	3765428.98	1.7395E-04	2.6508E-06	1.7660E-04
469046.43	3766247.90	1.5755E-04	5.8654E-06	1.6342E-04
469154.95	3766476.90	1.6348E-04	6.4190E-06	1.6990E-04
469587.58	3765354.96	1.7479E-04	2.4463E-06	1.7724E-04
469850.30	3766601.49	1.6042E-04	6.2096E-06	1.6663E-04
469174.01	3766509.41	1.6454E-04	6.3725E-06	1.7091E-04
469133.36	3766430.88	1.6085E-04	6.3930E-06	1.6724E-04
469998.52	3766611.77	1.5760E-04	6.5027E-06	1.6410E-04
469051.06	3765485.13	1.9827E-04	3.7766E-06	2.0204E-04
469474.39	3765318.06	1.7401E-04	2.3877E-06	1.7640E-04
469172.35	3766542.46	1.6326E-04	6.6068E-06	1.6987E-04
468981.50	3765608.27	1.6689E-04	3.3522E-06	1.7024E-04
468998.27	3765567.63	1.7186E-04	3.3672E-06	1.7523E-04
469190.81	3766573.96	1.6715E-04	6.4514E-06	1.7360E-04
469033.05	3765506.06	1.8482E-04	3.5224E-06	1.8834E-04
469163.11	3766526.71	1.6183E-04	6.5261E-06	1.6836E-04
468967.21	3765688.34	1.6096E-04	3.5864E-06	1.6454E-04
469295.01	3766636.83	1.9216E-04	6.9779E-06	1.9914E-04
468958.70	3765838.01	1.5661E-04	4.4824E-06	1.6110E-04
469181.58	3766558.21	1.6313E-04	6.5429E-06	1.6967E-04
469733.27	3765442.88	1.7078E-04	2.6738E-06	1.7346E-04
469012.42	3766160.01	1.5455E-04	5.4478E-06	1.6000E-04
469540.16	3765333.55	1.7189E-04	2.3892E-06	1.7428E-04
469874.37	3765588.81	1.6702E-04	3.0948E-06	1.7012E-04
468964.73	3765648.91	1.6322E-04	3.4059E-06	1.6663E-04
469312.16	3766643.10	2.2726E-04	7.7363E-06	2.3500E-04
469979.51	3766618.27	1.5596E-04	6.3983E-06	1.6236E-04
469164.48	3766493.16	1.6089E-04	6.3051E-06	1.6719E-04
468952.92	3765768.42	1.5705E-04	4.1354E-06	1.6118E-04
469277.87	3766630.56	1.7955E-04	6.6835E-06	1.8623E-04
470002.50	3766507.01	1.5439E-04	5.8933E-06	1.6028E-04
469015.41	3766178.21	1.5359E-04	5.4651E-06	1.5906E-04
468965.97	3765668.63	1.6045E-04	3.4959E-06	1.6395E-04
468972.29	3766041.78	1.5337E-04	4.9328E-06	1.5830E-04
469786.49	3765489.79	1.6778E-04	2.7962E-06	1.7058E-04
469015.04	3765526.98	1.7561E-04	3.3814E-06	1.7899E-04
469632.18	3765368.17	1.7045E-04	2.4701E-06	1.7292E-04
468951.68	3765748.70	1.5694E-04	4.0363E-06	1.6098E-04
469656.11	3765382.07	1.7007E-04	2.5034E-06	1.7258E-04
468955.40	3765807.85	1.5519E-04	4.3886E-06	1.5958E-04
468969.12	3766023.93	1.5287E-04	4.8696E-06	1.5774E-04
468954.16	3765788.13	1.5530E-04	4.3174E-06	1.5962E-04
468975.46	3766059.63	1.5268E-04	4.9776E-06	1.5766E-04
469018.41	3766196.42	1.5280E-04	5.4854E-06	1.5829E-04
469083.13	3766351.28	1.5454E-04	6.0125E-06	1.6055E-04
469260.72	3766624.28	1.7316E-04	6.5242E-06	1.7969E-04
469680.04	3765395.97	1.6887E-04	2.5339E-06	1.7140E-04
469815.78	3765522.80	1.6523E-04	2.8996E-06	1.6813E-04
468950.44	3765728.98	1.5658E-04	3.9226E-06	1.6050E-04

469757.20	3765456.78	1.6715E-04	2.6925E-06	1.6984E-04
468978.62	3766077.48	1.5168E-04	5.0129E-06	1.5669E-04
468980.26	3765588.55	1.6343E-04	3.2645E-06	1.6669E-04
469200.05	3766589.71	1.6351E-04	6.2910E-06	1.6980E-04
468963.49	3765629.19	1.6102E-04	3.3152E-06	1.6434E-04
468965.95	3766006.08	1.5163E-04	4.8014E-06	1.5643E-04
469243.57	3766618.01	1.6899E-04	6.4022E-06	1.7539E-04
469703.97	3765409.87	1.6696E-04	2.5612E-06	1.6952E-04
468997.03	3765547.91	1.6838E-04	3.2937E-06	1.7167E-04
469605.94	3765349.05	1.6762E-04	2.4124E-06	1.7003E-04
469067.82	3765444.49	2.2603E-04	4.4302E-06	2.3046E-04
469879.76	3766606.43	1.5378E-04	5.8657E-06	1.5964E-04
468981.79	3766095.33	1.5020E-04	5.0336E-06	1.5523E-04
468949.20	3765709.27	1.5537E-04	3.7781E-06	1.5915E-04
469492.74	3765312.14	1.6721E-04	2.3392E-06	1.6955E-04
469897.28	3766597.93	1.5248E-04	5.8317E-06	1.5831E-04
469049.82	3765465.42	1.9593E-04	3.7665E-06	1.9970E-04
469226.43	3766611.74	1.6516E-04	6.2825E-06	1.7144E-04
470021.39	3766501.10	1.5057E-04	5.7084E-06	1.5628E-04
468961.62	3765981.27	1.5002E-04	4.7141E-06	1.5474E-04
469031.81	3765486.34	1.8144E-04	3.4771E-06	1.8492E-04
468984.96	3766113.18	1.4905E-04	5.0555E-06	1.5411E-04
469727.91	3765423.77	1.6445E-04	2.5848E-06	1.6703E-04
469110.17	3766408.84	1.5217E-04	6.0041E-06	1.5818E-04
469862.23	3766614.93	1.5273E-04	5.8716E-06	1.5860E-04
469558.52	3765327.64	1.6552E-04	2.3500E-06	1.6787E-04
468945.14	3765876.06	1.4994E-04	4.3544E-06	1.5430E-04
469781.13	3765470.68	1.6257E-04	2.7053E-06	1.6528E-04
468988.13	3766131.03	1.4826E-04	5.0818E-06	1.5334E-04
468956.13	3765946.20	1.4902E-04	4.6090E-06	1.5363E-04
468962.25	3765609.48	1.5800E-04	3.2305E-06	1.6123E-04
469013.80	3765507.27	1.7192E-04	3.3146E-06	1.7524E-04
469994.71	3766630.21	1.4983E-04	6.1376E-06	1.5596E-04
468979.02	3765568.84	1.6154E-04	3.2165E-06	1.6476E-04
468950.63	3765911.13	1.4859E-04	4.5004E-06	1.5309E-04
469810.42	3765503.69	1.6041E-04	2.8062E-06	1.6322E-04
468947.96	3765689.55	1.5278E-04	3.5530E-06	1.5633E-04
469751.84	3765437.67	1.6143E-04	2.6044E-06	1.6403E-04
469650.75	3765362.96	1.6214E-04	2.4190E-06	1.6456E-04
468939.65	3765841.00	1.4786E-04	4.2391E-06	1.5210E-04
468995.79	3765528.19	1.6461E-04	3.2147E-06	1.6782E-04
469297.13	3766656.93	1.8211E-04	6.5622E-06	1.8867E-04
469839.72	3765536.70	1.5706E-04	2.9018E-06	1.5996E-04
469441.58	3765292.25	1.6250E-04	2.3109E-06	1.6482E-04
469674.68	3765376.86	1.6152E-04	2.4490E-06	1.6397E-04
469088.62	3766383.81	1.4767E-04	5.7648E-06	1.5344E-04
469169.94	3766574.24	1.5221E-04	6.0656E-06	1.5828E-04
469049.43	3766266.11	1.4591E-04	5.4772E-06	1.5139E-04
469698.61	3765390.76	1.6018E-04	2.4760E-06	1.6265E-04
469153.88	3766510.96	1.5127E-04	5.8672E-06	1.5714E-04
469511.10	3765306.23	1.6094E-04	2.2946E-06	1.6324E-04
468961.01	3765589.76	1.5493E-04	3.1493E-06	1.5808E-04
468936.15	3765809.06	1.4646E-04	4.1550E-06	1.5062E-04
468933.67	3765769.63	1.4715E-04	3.9840E-06	1.5114E-04
469805.06	3765484.58	1.5718E-04	2.7167E-06	1.5990E-04
469066.59	3765424.77	2.3102E-04	4.5985E-06	2.3562E-04
469775.77	3765451.57	1.5799E-04	2.6187E-06	1.6061E-04
469151.95	3766543.56	1.4981E-04	5.9855E-06	1.5580E-04
469048.58	3765445.70	1.9444E-04	3.7730E-06	1.9821E-04
468932.43	3765749.91	1.4757E-04	3.8664E-06	1.5144E-04
469624.29	3765343.14	1.5974E-04	2.3626E-06	1.6210E-04
468946.72	3765669.84	1.5011E-04	3.3562E-06	1.5346E-04
468934.91	3765789.34	1.4611E-04	4.1084E-06	1.5021E-04
468977.78	3765549.12	1.5848E-04	3.1474E-06	1.6163E-04
469030.57	3765466.63	1.7828E-04	3.4371E-06	1.8171E-04
469722.54	3765404.66	1.5823E-04	2.4996E-06	1.6073E-04
469263.72	3766644.71	1.6219E-04	6.1226E-06	1.6831E-04
469576.88	3765321.73	1.5899E-04	2.3082E-06	1.6130E-04
469114.41	3766434.44	1.4664E-04	5.7769E-06	1.5242E-04
468931.19	3765730.19	1.4715E-04	3.7837E-06	1.5093E-04
469877.89	3766626.57	1.4613E-04	5.5521E-06	1.5169E-04
469863.65	3765550.60	1.5315E-04	2.8994E-06	1.5605E-04

469895.27	3766618.14	1.4548E-04	5.5373E-06	1.5102E-04
469012.56	3765487.55	1.6860E-04	3.2633E-06	1.7186E-04
469912.64	3766609.70	1.4479E-04	5.5187E-06	1.5031E-04
469230.32	3766632.49	1.5617E-04	5.9200E-06	1.6209E-04
468929.95	3765710.48	1.4657E-04	3.6915E-06	1.5026E-04
469135.41	3766479.46	1.4653E-04	5.7608E-06	1.5229E-04
468945.48	3765650.12	1.4854E-04	3.2724E-06	1.5181E-04
469746.47	3765418.56	1.5577E-04	2.5199E-06	1.5829E-04
468994.55	3765508.48	1.6088E-04	3.1405E-06	1.6402E-04
469834.35	3765517.59	1.5190E-04	2.8106E-06	1.5471E-04
469144.65	3766495.21	1.4594E-04	5.7304E-06	1.5167E-04
468944.24	3765630.40	1.4882E-04	3.1932E-06	1.5202E-04
468959.77	3765570.05	1.5209E-04	3.0774E-06	1.5517E-04
469860.52	3766635.00	1.4388E-04	5.4612E-06	1.4934E-04
468953.30	3766045.15	1.4089E-04	4.5773E-06	1.4546E-04
469799.70	3765465.47	1.5363E-04	2.6308E-06	1.5626E-04
469943.32	3766633.28	1.4410E-04	5.8243E-06	1.4992E-04
468950.13	3766027.30	1.4073E-04	4.5330E-06	1.4526E-04
468928.71	3765690.76	1.4546E-04	3.6169E-06	1.4908E-04
469187.93	3766604.93	1.4888E-04	5.8251E-06	1.5471E-04
468943.01	3765610.69	1.4946E-04	3.1144E-06	1.5257E-04
468996.38	3766181.34	1.4025E-04	4.9684E-06	1.4522E-04
468956.47	3766063.00	1.3988E-04	4.6012E-06	1.4449E-04
469669.32	3765357.75	1.5443E-04	2.3680E-06	1.5680E-04
468993.39	3766163.14	1.3995E-04	4.9255E-06	1.4487E-04
469529.46	3765300.32	1.5492E-04	2.2513E-06	1.5717E-04
469770.40	3765432.46	1.5289E-04	2.5359E-06	1.5542E-04
468976.54	3765529.40	1.5490E-04	3.0692E-06	1.5796E-04
469146.19	3766569.61	1.4446E-04	5.7841E-06	1.5024E-04
469693.25	3765371.65	1.5363E-04	2.3950E-06	1.5602E-04
468927.48	3765671.05	1.4429E-04	3.5321E-06	1.4782E-04
468946.96	3766009.45	1.3914E-04	4.4703E-06	1.4361E-04
469047.34	3765425.98	1.9371E-04	3.7990E-06	1.9751E-04
469029.33	3765446.91	1.7559E-04	3.4068E-06	1.7899E-04
468926.09	3765879.05	1.3957E-04	4.1448E-06	1.4371E-04
468999.38	3766199.55	1.3843E-04	4.9456E-06	1.4337E-04
469958.64	3766645.08	1.4185E-04	5.6674E-06	1.4752E-04
469021.41	3766214.62	1.3891E-04	5.0699E-06	1.4398E-04
469717.18	3765385.55	1.5219E-04	2.4186E-06	1.5461E-04
468959.64	3766080.85	1.3825E-04	4.6076E-06	1.4285E-04
468942.56	3765984.25	1.3859E-04	4.4071E-06	1.4299E-04
469065.35	3765405.06	2.4060E-04	4.8768E-06	2.4548E-04
469091.09	3766411.53	1.4042E-04	5.4785E-06	1.4590E-04
469595.23	3765315.82	1.5278E-04	2.2707E-06	1.5505E-04
469291.45	3766674.18	1.6748E-04	6.0625E-06	1.7354E-04
469136.59	3766553.25	1.4231E-04	5.6829E-06	1.4799E-04
469828.99	3765498.48	1.4827E-04	2.7235E-06	1.5099E-04
469642.65	3765337.22	1.5226E-04	2.3128E-06	1.5457E-04
469011.32	3765467.84	1.6523E-04	3.2103E-06	1.6844E-04
469155.78	3766585.98	1.4337E-04	5.6761E-06	1.4904E-04
468941.77	3765590.97	1.4682E-04	3.0335E-06	1.4985E-04
469273.63	3766667.66	1.5763E-04	5.8349E-06	1.6346E-04
468920.59	3765843.98	1.3894E-04	4.0326E-06	1.4297E-04
469858.28	3765531.49	1.4686E-04	2.8097E-06	1.4967E-04
469453.87	3765276.27	1.5218E-04	2.2230E-06	1.5441E-04
468937.07	3765949.18	1.3788E-04	4.3254E-06	1.4221E-04
469052.42	3766284.31	1.3830E-04	5.2188E-06	1.4352E-04
468958.54	3765550.33	1.4910E-04	3.0056E-06	1.5210E-04
468926.24	3765651.33	1.4274E-04	3.4414E-06	1.4618E-04
469741.11	3765399.45	1.5023E-04	2.4391E-06	1.5267E-04
468962.80	3766098.70	1.3681E-04	4.6119E-06	1.4142E-04
469794.34	3765446.36	1.4916E-04	2.5484E-06	1.5171E-04
468993.31	3765488.76	1.5813E-04	3.0968E-06	1.6123E-04
468931.58	3765914.12	1.3723E-04	4.2414E-06	1.4148E-04
468916.90	3765810.27	1.3784E-04	3.9527E-06	1.4179E-04
468914.42	3765770.84	1.3822E-04	3.8416E-06	1.4206E-04
468965.97	3766116.55	1.3555E-04	4.6162E-06	1.4017E-04
469927.99	3766621.49	1.3823E-04	5.2434E-06	1.4348E-04
469165.37	3766602.34	1.4215E-04	5.5675E-06	1.4772E-04
468915.66	3765790.55	1.3755E-04	3.9140E-06	1.4146E-04
468913.19	3765751.12	1.3822E-04	3.7754E-06	1.4199E-04
469910.74	3766629.86	1.3770E-04	5.2255E-06	1.4293E-04

469547.82	3765294.41	1.4965E-04	2.2136E-06	1.5187E-04
468975.30	3765509.69	1.5131E-04	2.9935E-06	1.5430E-04
469823.63	3765479.37	1.4602E-04	2.6396E-06	1.4866E-04
469255.82	3766661.14	1.5013E-04	5.6926E-06	1.5583E-04
469765.04	3765413.35	1.4784E-04	2.4562E-06	1.5030E-04
469024.40	3766232.83	1.3536E-04	4.9749E-06	1.4033E-04
469893.49	3766638.23	1.3705E-04	5.1951E-06	1.4224E-04
468969.14	3766134.40	1.3447E-04	4.6217E-06	1.3910E-04
468911.95	3765731.40	1.3733E-04	3.7537E-06	1.4109E-04
469133.96	3766512.88	1.3887E-04	5.3830E-06	1.4425E-04
469220.19	3766648.11	1.4550E-04	5.5130E-06	1.5102E-04
468940.53	3765571.26	1.4392E-04	2.9586E-06	1.4688E-04
469419.30	3765263.63	1.4888E-04	2.2098E-06	1.5109E-04
469238.00	3766654.62	1.4615E-04	5.5965E-06	1.5175E-04
469687.89	3765352.54	1.4724E-04	2.3171E-06	1.4956E-04
468910.71	3765711.69	1.3682E-04	3.7074E-06	1.4053E-04
469055.42	3766302.52	1.3486E-04	5.1095E-06	1.3997E-04
468957.30	3765530.61	1.4609E-04	2.9371E-06	1.4903E-04
469028.09	3765427.19	1.7324E-04	3.3869E-06	1.7663E-04
469711.82	3765366.44	1.4631E-04	2.3414E-06	1.4866E-04
468909.47	3765691.97	1.3652E-04	3.6388E-06	1.4016E-04
469202.38	3766641.59	1.4297E-04	5.4222E-06	1.4839E-04
469046.10	3765406.27	1.9426E-04	3.8586E-06	1.9812E-04
469174.97	3766618.71	1.4023E-04	5.4443E-06	1.4568E-04
469010.08	3765448.12	1.6216E-04	3.1643E-06	1.6533E-04
469852.92	3765512.38	1.4182E-04	2.7240E-06	1.4454E-04
469613.59	3765309.90	1.4653E-04	2.2278E-06	1.4876E-04
468925.00	3765631.61	1.3906E-04	3.1436E-06	1.4220E-04
469788.97	3765427.25	1.4454E-04	2.4689E-06	1.4701E-04
469818.27	3765460.26	1.4356E-04	2.5585E-06	1.4612E-04
469497.79	3765276.40	1.4627E-04	2.1728E-06	1.4844E-04
469064.11	3765385.34	2.5516E-04	5.2664E-06	2.6042E-04
468908.23	3765672.26	1.3601E-04	3.5691E-06	1.3958E-04
469876.25	3766646.60	1.3483E-04	5.0981E-06	1.3993E-04
469735.75	3765380.34	1.4484E-04	2.3624E-06	1.4720E-04
468992.07	3765469.05	1.5478E-04	3.0382E-06	1.5781E-04
469661.01	3765331.31	1.4533E-04	2.2633E-06	1.4760E-04
469095.45	3766437.99	1.3426E-04	5.2331E-06	1.3949E-04
469027.40	3766251.03	1.3247E-04	4.8970E-06	1.3737E-04
469058.41	3766320.72	1.3298E-04	5.0567E-06	1.3804E-04
469134.83	3766586.12	1.3607E-04	5.3916E-06	1.4146E-04
469566.17	3765288.49	1.4515E-04	2.1834E-06	1.4733E-04
468906.99	3765652.54	1.3534E-04	3.4836E-06	1.3882E-04
468974.06	3765489.97	1.4885E-04	2.9509E-06	1.5180E-04
469469.20	3765265.32	1.4485E-04	2.1602E-06	1.4701E-04
468939.29	3765551.54	1.4111E-04	2.8887E-06	1.4400E-04
468977.35	3766184.47	1.3084E-04	4.6026E-06	1.3544E-04
468974.36	3766166.27	1.3079E-04	4.5724E-06	1.3536E-04
469759.68	3765394.24	1.4288E-04	2.3800E-06	1.4526E-04
469115.98	3766482.19	1.3373E-04	5.2243E-06	1.3895E-04
469144.17	3766602.06	1.3516E-04	5.3008E-06	1.4046E-04
469258.95	3766681.62	1.4501E-04	5.3945E-06	1.5040E-04
469812.90	3765441.15	1.4090E-04	2.4804E-06	1.4338E-04
468923.76	3765611.90	1.3650E-04	2.9962E-06	1.3950E-04
468931.14	3766030.67	1.2976E-04	4.2157E-06	1.3397E-04
468956.06	3765510.90	1.4296E-04	2.8685E-06	1.4583E-04
468927.97	3766012.82	1.2944E-04	4.1789E-06	1.3362E-04
468905.75	3765632.82	1.3419E-04	3.3308E-06	1.3752E-04
468934.31	3766048.52	1.2922E-04	4.2374E-06	1.3346E-04
469926.19	3766641.59	1.3128E-04	4.9647E-06	1.3624E-04
469847.56	3765493.27	1.3752E-04	2.6418E-06	1.4016E-04
469030.40	3766269.24	1.2984E-04	4.8242E-06	1.3467E-04
469125.48	3766570.19	1.3259E-04	5.2420E-06	1.3783E-04
469406.12	3765250.11	1.4302E-04	2.1639E-06	1.4518E-04
468904.29	3765864.50	1.3007E-04	3.8877E-06	1.3396E-04
469002.38	3766217.75	1.2919E-04	4.6737E-06	1.3386E-04
469783.61	3765408.14	1.4016E-04	2.3928E-06	1.4255E-04
468980.35	3766202.68	1.2866E-04	4.5637E-06	1.3322E-04
468900.25	3765835.14	1.3007E-04	3.8155E-06	1.3388E-04
468909.78	3765899.57	1.2946E-04	3.9685E-06	1.3343E-04
469515.01	3765268.60	1.4155E-04	2.1343E-06	1.4368E-04
469008.84	3765428.40	1.5928E-04	3.1245E-06	1.6240E-04

468922.52	3765592.18	1.3598E-04	2.9275E-06	1.3891E-04
469706.46	3765347.33	1.4058E-04	2.2671E-06	1.4285E-04
468924.80	3765994.97	1.2854E-04	4.1341E-06	1.3267E-04
468897.66	3765811.48	1.2987E-04	3.7622E-06	1.3364E-04
469026.85	3765407.48	1.7138E-04	3.3821E-06	1.7476E-04
469241.60	3766675.27	1.3968E-04	5.2897E-06	1.4497E-04
468896.42	3765791.76	1.2993E-04	3.7249E-06	1.3366E-04
469433.11	3765250.16	1.4169E-04	2.1417E-06	1.4384E-04
469909.05	3766649.91	1.3007E-04	4.9144E-06	1.3498E-04
468895.18	3765772.05	1.2986E-04	3.6865E-06	1.3355E-04
468990.83	3765449.33	1.5162E-04	2.9846E-06	1.5460E-04
469044.86	3765386.55	1.9605E-04	3.9459E-06	2.0000E-04
469153.51	3766618.00	1.3305E-04	5.1949E-06	1.3825E-04
468921.28	3765572.47	1.3677E-04	2.8589E-06	1.3962E-04
468937.48	3766066.37	1.2775E-04	4.2381E-06	1.3199E-04
469631.95	3765303.99	1.4052E-04	2.1840E-06	1.4270E-04
468938.05	3765531.82	1.3831E-04	2.8220E-06	1.4113E-04
468893.94	3765752.33	1.2977E-04	3.6447E-06	1.3342E-04
469730.39	3765361.23	1.3956E-04	2.2890E-06	1.4185E-04
469033.39	3766287.44	1.2842E-04	4.7926E-06	1.3321E-04
468920.77	3765969.70	1.2794E-04	4.0848E-06	1.3202E-04
468904.51	3765613.11	1.3286E-04	3.1965E-06	1.3606E-04
469064.11	3766354.49	1.2835E-04	4.9056E-06	1.3325E-04
469584.53	3765282.58	1.3963E-04	2.1411E-06	1.4177E-04
468972.83	3765470.26	1.4595E-04	2.8986E-06	1.4885E-04
468892.70	3765732.61	1.2889E-04	3.6189E-06	1.3251E-04
469679.37	3765325.40	1.3891E-04	2.2148E-06	1.4112E-04
469224.25	3766668.92	1.3583E-04	5.2104E-06	1.4104E-04
469754.32	3765375.13	1.3803E-04	2.3071E-06	1.4034E-04
469807.54	3765422.04	1.3727E-04	2.4052E-06	1.3967E-04
469005.37	3766235.96	1.2690E-04	4.6190E-06	1.3152E-04
468915.27	3765934.63	1.2679E-04	4.0130E-06	1.3080E-04
468891.46	3765712.90	1.2809E-04	3.5866E-06	1.3168E-04
469189.55	3766656.22	1.3390E-04	5.0644E-06	1.3896E-04
469842.20	3765474.16	1.3421E-04	2.5630E-06	1.3677E-04
469891.91	3766658.22	1.2823E-04	4.8335E-06	1.3306E-04
469036.39	3766305.65	1.2673E-04	4.7488E-06	1.3148E-04
468954.82	3765491.18	1.4024E-04	2.8128E-06	1.4305E-04
468940.65	3766084.22	1.2573E-04	4.2214E-06	1.2995E-04
469206.90	3766662.57	1.3382E-04	5.1363E-06	1.3895E-04
469127.00	3766536.89	1.2937E-04	4.9719E-06	1.3434E-04
469162.86	3766633.94	1.3091E-04	5.0848E-06	1.3600E-04
468920.04	3765552.75	1.3411E-04	2.7866E-06	1.3690E-04
469778.25	3765389.03	1.3608E-04	2.3215E-06	1.3840E-04
469874.78	3766666.54	1.2752E-04	4.7990E-06	1.3232E-04
469123.31	3766602.37	1.2834E-04	5.0435E-06	1.3339E-04
468890.22	3765693.18	1.2651E-04	3.5553E-06	1.3007E-04
468943.82	3766102.07	1.2438E-04	4.2148E-06	1.2860E-04
469008.37	3766254.16	1.2478E-04	4.5667E-06	1.2934E-04
468983.35	3766220.89	1.2439E-04	4.4520E-06	1.2884E-04
468936.81	3765512.11	1.3547E-04	2.7573E-06	1.3823E-04
468886.50	3765634.03	1.2737E-04	3.3762E-06	1.3074E-04
469392.94	3765236.59	1.3733E-04	2.1169E-06	1.3945E-04
469117.41	3766520.52	1.2697E-04	4.9153E-06	1.3188E-04
469039.39	3766323.85	1.2469E-04	4.6892E-06	1.2938E-04
468887.74	3765653.75	1.2581E-04	3.4668E-06	1.2927E-04
469941.60	3766653.34	1.2586E-04	4.7416E-06	1.3060E-04
468989.59	3765429.61	1.4859E-04	2.9355E-06	1.5153E-04
469007.60	3765408.69	1.5656E-04	3.0926E-06	1.5965E-04
469481.87	3765249.97	1.3600E-04	2.0821E-06	1.3808E-04
469025.61	3765387.76	1.7007E-04	3.3889E-06	1.7346E-04
469419.93	3765236.64	1.3605E-04	2.0918E-06	1.3814E-04
469725.02	3765342.12	1.3451E-04	2.2196E-06	1.3673E-04
468885.26	3765614.32	1.2702E-04	3.2861E-06	1.3031E-04
468971.59	3765450.54	1.4254E-04	2.8326E-06	1.4537E-04
469836.83	3765455.05	1.3115E-04	2.4872E-06	1.3364E-04
469650.30	3765298.08	1.3480E-04	2.1403E-06	1.3694E-04
468888.98	3765673.47	1.2450E-04	3.5097E-06	1.2801E-04
469802.18	3765402.93	1.3316E-04	2.3329E-06	1.3549E-04
468946.98	3766119.92	1.2276E-04	4.1981E-06	1.2696E-04
469043.62	3765366.84	1.9985E-04	4.0812E-06	2.0393E-04
469602.89	3765276.67	1.3457E-04	2.1039E-06	1.3668E-04

469227.67	3766689.50	1.3224E-04	4.9520E-06	1.3719E-04
469011.37	3766272.37	1.2299E-04	4.5231E-06	1.2751E-04
469069.60	3766387.02	1.2397E-04	4.7536E-06	1.2872E-04
468903.27	3765593.39	1.2895E-04	2.9176E-06	1.3186E-04
469748.96	3765356.02	1.3339E-04	2.2389E-06	1.3563E-04
468953.58	3765471.47	1.3764E-04	2.7634E-06	1.4041E-04
469924.57	3766661.61	1.2390E-04	4.6658E-06	1.2856E-04
469446.92	3765236.70	1.3432E-04	2.0699E-06	1.3639E-04
469014.36	3766290.58	1.2231E-04	4.5181E-06	1.2683E-04
468950.15	3766137.77	1.2175E-04	4.1942E-06	1.2594E-04
469697.72	3765319.49	1.3296E-04	2.1675E-06	1.3513E-04
468918.80	3765533.03	1.3120E-04	2.7211E-06	1.3392E-04
469526.09	3765250.61	1.3350E-04	2.0637E-06	1.3557E-04
469772.89	3765369.92	1.3177E-04	2.2537E-06	1.3402E-04
468986.34	3766239.09	1.2130E-04	4.3712E-06	1.2567E-04
468935.57	3765492.39	1.3277E-04	2.6980E-06	1.3547E-04
469907.53	3766669.88	1.2281E-04	4.6163E-06	1.2742E-04
469141.58	3766633.53	1.2457E-04	4.8606E-06	1.2943E-04
469831.47	3765435.94	1.2883E-04	2.4138E-06	1.3124E-04
469017.36	3766308.78	1.2094E-04	4.4862E-06	1.2543E-04
468874.69	3765753.54	1.2202E-04	3.4935E-06	1.2551E-04
468881.13	3765837.53	1.2138E-04	3.6315E-06	1.2502E-04
468885.23	3765867.48	1.2111E-04	3.6855E-06	1.2480E-04
468884.02	3765594.60	1.2535E-04	3.0775E-06	1.2843E-04
468873.45	3765733.82	1.2187E-04	3.4595E-06	1.2533E-04
469045.09	3766357.70	1.2093E-04	4.5729E-06	1.2550E-04
468875.93	3765773.26	1.2124E-04	3.5320E-06	1.2478E-04
468878.41	3765812.69	1.2102E-04	3.5890E-06	1.2461E-04
469890.50	3766678.14	1.2203E-04	4.5800E-06	1.2661E-04
469796.82	3765383.82	1.2961E-04	2.2639E-06	1.3187E-04
468877.17	3765792.97	1.2077E-04	3.5624E-06	1.2434E-04
468955.33	3766169.40	1.1955E-04	4.1701E-06	1.2373E-04
469210.71	3766683.29	1.2656E-04	4.8689E-06	1.3143E-04
469116.14	3766554.25	1.2269E-04	4.6754E-06	1.2736E-04
468902.03	3765573.68	1.2615E-04	2.7574E-06	1.2891E-04
468890.73	3765902.55	1.1980E-04	3.7367E-06	1.2353E-04
468970.35	3765430.82	1.3913E-04	2.7685E-06	1.4190E-04
468988.36	3765409.90	1.4559E-04	2.8906E-06	1.4848E-04
469496.82	3765238.40	1.3093E-04	2.0361E-06	1.3297E-04
469379.76	3765223.07	1.3175E-04	2.0674E-06	1.3382E-04
469006.36	3765388.97	1.5418E-04	3.0672E-06	1.5725E-04
469020.36	3766326.99	1.1940E-04	4.4456E-06	1.2384E-04
468872.21	3765714.11	1.2036E-04	3.4348E-06	1.2379E-04
469024.37	3765368.05	1.6935E-04	3.4091E-06	1.7276E-04
469098.22	3766487.79	1.2099E-04	4.6828E-06	1.2568E-04
469826.11	3765416.83	1.2743E-04	2.3429E-06	1.2977E-04
469406.75	3765223.12	1.3081E-04	2.0472E-06	1.3285E-04
469193.76	3766677.09	1.2450E-04	4.8031E-06	1.2931E-04
469107.81	3766504.16	1.2104E-04	4.6918E-06	1.2573E-04
468952.34	3765451.75	1.3455E-04	2.7024E-06	1.3726E-04
469743.59	3765336.91	1.2886E-04	2.1722E-06	1.3103E-04
469621.24	3765270.76	1.2964E-04	2.0655E-06	1.3171E-04
469668.66	3765292.17	1.2934E-04	2.0966E-06	1.3144E-04
468989.34	3766257.30	1.1841E-04	4.2923E-06	1.2270E-04
469150.71	3766649.10	1.2231E-04	4.7602E-06	1.2707E-04
469570.84	3765252.12	1.2936E-04	2.0366E-06	1.3140E-04
468901.71	3765972.69	1.1835E-04	3.8147E-06	1.2216E-04
468908.98	3766016.19	1.1814E-04	3.8647E-06	1.2201E-04
469973.95	3766656.88	1.2042E-04	4.5133E-06	1.2493E-04
469042.38	3765347.12	2.0569E-04	4.2607E-06	2.0995E-04
469433.74	3765223.18	1.2973E-04	2.0296E-06	1.3176E-04
468958.33	3766187.61	1.1785E-04	4.1397E-06	1.2199E-04
468912.15	3766034.04	1.1784E-04	3.8807E-06	1.2172E-04
468905.81	3765998.34	1.1776E-04	3.8352E-06	1.2159E-04
469767.52	3765350.81	1.2764E-04	2.1896E-06	1.2983E-04
469542.63	3765241.67	1.2882E-04	2.0231E-06	1.3085E-04
469957.00	3766665.10	1.1914E-04	4.4749E-06	1.2361E-04
468866.01	3765615.53	1.2046E-04	3.2031E-06	1.2366E-04
468934.33	3765472.68	1.3005E-04	2.6403E-06	1.3269E-04
468896.22	3765937.62	1.1771E-04	3.7607E-06	1.2148E-04
469820.75	3765397.72	1.2662E-04	2.2746E-06	1.2889E-04
468900.79	3765553.96	1.2462E-04	2.6941E-06	1.2732E-04

468882.78	3765574.89	1.2311E-04	2.9192E-06	1.2603E-04
469716.08	3765313.58	1.2741E-04	2.1204E-06	1.2953E-04
469023.33	3766344.64	1.1745E-04	4.3871E-06	1.2183E-04
468917.56	3765513.32	1.2610E-04	2.6517E-06	1.2875E-04
468915.32	3766051.89	1.1669E-04	3.8773E-06	1.2057E-04
469219.08	3766705.68	1.2489E-04	4.6619E-06	1.2956E-04
469106.80	3766538.31	1.1887E-04	4.5704E-06	1.2344E-04
469791.45	3765364.71	1.2595E-04	2.2012E-06	1.2815E-04
468992.34	3766275.50	1.1644E-04	4.2416E-06	1.2069E-04
468961.32	3766205.81	1.1621E-04	4.1086E-06	1.2032E-04
469072.67	3766418.82	1.1742E-04	4.5014E-06	1.2192E-04
469940.06	3766673.32	1.1756E-04	4.4091E-06	1.2197E-04
468864.78	3765595.81	1.2000E-04	3.0609E-06	1.2306E-04
469105.05	3766571.22	1.1871E-04	4.4739E-06	1.2318E-04
468916.32	3765493.60	1.2587E-04	2.5920E-06	1.2846E-04
468867.25	3765635.24	1.1732E-04	3.2760E-06	1.2060E-04
469460.73	3765223.24	1.2699E-04	1.9995E-06	1.2899E-04
469108.92	3766613.71	1.1806E-04	4.6219E-06	1.2269E-04
468918.49	3766069.74	1.1545E-04	3.8690E-06	1.1932E-04
469923.11	3766681.55	1.1725E-04	4.3930E-06	1.2164E-04
469097.45	3766522.37	1.1746E-04	4.5232E-06	1.2199E-04
469050.58	3766390.23	1.1627E-04	4.4114E-06	1.2068E-04
468987.12	3765390.18	1.4281E-04	2.8504E-06	1.4566E-04
468969.11	3765411.11	1.3678E-04	2.7368E-06	1.3952E-04
469005.12	3765369.26	1.5212E-04	3.0481E-06	1.5517E-04
468951.10	3765432.03	1.3123E-04	2.6364E-06	1.3386E-04
469906.17	3766689.77	1.1692E-04	4.3758E-06	1.2129E-04
469076.50	3766441.55	1.1618E-04	4.4589E-06	1.2063E-04
469366.57	3765209.55	1.2666E-04	2.0240E-06	1.2868E-04
469099.28	3766597.27	1.1670E-04	4.5415E-06	1.2124E-04
469815.39	3765378.61	1.2353E-04	2.2091E-06	1.2574E-04
469639.60	3765264.85	1.2491E-04	2.0270E-06	1.2693E-04
469393.56	3765209.60	1.2607E-04	2.0060E-06	1.2807E-04
468899.55	3765534.24	1.2206E-04	2.6271E-06	1.2468E-04
469023.13	3765348.33	1.6933E-04	3.4450E-06	1.7277E-04
469509.71	3765223.42	1.2508E-04	1.9815E-06	1.2706E-04
468995.33	3766293.71	1.1437E-04	4.1844E-06	1.1855E-04
469588.44	3765244.95	1.2462E-04	1.9959E-06	1.2662E-04
469889.22	3766697.99	1.1640E-04	4.3509E-06	1.2075E-04
468933.09	3765452.96	1.2730E-04	2.5843E-06	1.2989E-04
469687.02	3765286.25	1.2422E-04	2.0543E-06	1.2627E-04
468881.54	3765555.17	1.2041E-04	2.7684E-06	1.2318E-04
468964.32	3766224.02	1.1401E-04	4.0565E-06	1.1807E-04
469762.16	3765331.70	1.2347E-04	2.1250E-06	1.2560E-04
468921.66	3766087.59	1.1389E-04	3.8496E-06	1.1773E-04
468863.54	3765576.10	1.1854E-04	2.9393E-06	1.2148E-04
469201.18	3766699.13	1.1957E-04	4.5826E-06	1.2415E-04
469041.14	3765327.40	2.1459E-04	4.5067E-06	2.1909E-04
469028.82	3766377.17	1.1365E-04	4.2656E-06	1.1792E-04
469786.09	3765345.60	1.2222E-04	2.1404E-06	1.2436E-04
468915.08	3765473.89	1.2350E-04	2.5396E-06	1.2604E-04
468870.97	3765694.39	1.1355E-04	3.3388E-06	1.1689E-04
469447.55	3765209.72	1.2386E-04	1.9708E-06	1.2583E-04
469420.56	3765209.66	1.2364E-04	1.9736E-06	1.2562E-04
469734.44	3765307.66	1.2211E-04	2.0745E-06	1.2419E-04
469183.28	3766692.58	1.1721E-04	4.5176E-06	1.2173E-04
469118.56	3766630.16	1.1480E-04	4.4867E-06	1.1929E-04
468862.30	3765556.38	1.1729E-04	2.8636E-06	1.2015E-04
469137.84	3766663.04	1.1524E-04	4.4787E-06	1.1972E-04
468924.83	3766105.44	1.1198E-04	3.8178E-06	1.1580E-04
468898.31	3765514.53	1.1994E-04	2.5644E-06	1.2250E-04
468967.31	3766242.22	1.1193E-04	4.0046E-06	1.1593E-04
469095.92	3766555.64	1.1365E-04	4.3380E-06	1.1799E-04
468998.33	3766311.91	1.1199E-04	4.1132E-06	1.1610E-04
469810.02	3765359.50	1.2052E-04	2.1495E-06	1.2267E-04
469128.20	3766646.60	1.1414E-04	4.4624E-06	1.1860E-04
469165.38	3766686.03	1.1558E-04	4.4544E-06	1.2003E-04
469474.54	3765209.77	1.2196E-04	1.9499E-06	1.2391E-04
469554.16	3765224.43	1.2153E-04	1.9538E-06	1.2348E-04
468985.88	3765370.47	1.4027E-04	2.8148E-06	1.4308E-04
468967.87	3765391.39	1.3388E-04	2.6890E-06	1.3657E-04
468949.86	3765412.32	1.2936E-04	2.6122E-06	1.3197E-04

469003.88	3765349.54	1.5031E-04	3.0341E-06	1.5334E-04
468868.49	3765654.96	1.1146E-04	3.2354E-06	1.1470E-04
468931.85	3765433.24	1.2453E-04	2.5291E-06	1.2706E-04
469657.96	3765258.93	1.2039E-04	1.9890E-06	1.2238E-04
469053.63	3766421.80	1.1152E-04	4.2354E-06	1.1576E-04
468880.30	3765535.45	1.1737E-04	2.6018E-06	1.1997E-04
468928.00	3766123.29	1.1043E-04	3.7922E-06	1.1422E-04
469353.39	3765196.03	1.2187E-04	1.9818E-06	1.2385E-04
468861.06	3765536.66	1.1588E-04	2.7892E-06	1.1867E-04
469380.38	3765196.08	1.2131E-04	1.9632E-06	1.2327E-04
469021.89	3765328.61	1.7012E-04	3.4986E-06	1.7362E-04
469524.43	3765211.47	1.2027E-04	1.9375E-06	1.2221E-04
469705.38	3765280.34	1.1938E-04	2.0127E-06	1.2139E-04
468913.84	3765454.17	1.2109E-04	2.4879E-06	1.2358E-04
469001.33	3766330.12	1.1019E-04	4.0611E-06	1.1425E-04
469088.11	3766506.43	1.1162E-04	4.2841E-06	1.1590E-04
468897.07	3765494.81	1.1847E-04	2.5091E-06	1.2098E-04
468970.31	3766260.43	1.0968E-04	3.9441E-06	1.1362E-04
469780.73	3765326.49	1.1838E-04	2.0787E-06	1.2046E-04
469434.36	3765196.20	1.2006E-04	1.9351E-06	1.2199E-04
468931.16	3766141.14	1.0942E-04	3.7796E-06	1.1320E-04
469031.67	3766404.07	1.0974E-04	4.1266E-06	1.1387E-04
468859.82	3765516.95	1.1473E-04	2.7439E-06	1.1747E-04
469039.90	3765307.69	2.2776E-04	4.8445E-06	2.3261E-04
469086.78	3766540.06	1.1041E-04	4.2241E-06	1.1463E-04
469407.37	3765196.14	1.1935E-04	1.9339E-06	1.2128E-04
469804.66	3765340.39	1.1712E-04	2.0919E-06	1.1921E-04
469752.79	3765301.75	1.1707E-04	2.0295E-06	1.1910E-04
469004.32	3766347.85	1.0856E-04	4.0133E-06	1.1257E-04
468895.83	3765475.10	1.1765E-04	2.4535E-06	1.2010E-04
469187.61	3766713.49	1.1254E-04	4.3098E-06	1.1685E-04
469461.35	3765196.25	1.1825E-04	1.9135E-06	1.2017E-04
469057.54	3766445.10	1.0901E-04	4.1442E-06	1.1315E-04
468973.31	3766278.63	1.0784E-04	3.8952E-06	1.1174E-04
469599.00	3765226.09	1.1718E-04	1.9223E-06	1.1910E-04
468966.63	3765371.68	1.3117E-04	2.6451E-06	1.3382E-04
468948.62	3765392.60	1.2649E-04	2.5609E-06	1.2905E-04
468984.64	3765350.75	1.3789E-04	2.7826E-06	1.4067E-04
468869.73	3765674.68	1.0771E-04	3.1972E-06	1.1091E-04
468879.07	3765515.74	1.1470E-04	2.4870E-06	1.1718E-04
469570.24	3765214.75	1.1709E-04	1.9132E-06	1.1900E-04
469488.35	3765196.31	1.1740E-04	1.9041E-06	1.1931E-04
468930.61	3765413.53	1.2298E-04	2.5079E-06	1.2549E-04
469078.77	3766490.50	1.0849E-04	4.1491E-06	1.1264E-04
469676.32	3765253.02	1.1596E-04	1.9505E-06	1.1791E-04
469002.65	3765329.82	1.4890E-04	3.0327E-06	1.5194E-04
469170.11	3766707.09	1.1056E-04	4.2530E-06	1.1481E-04
468912.60	3765434.45	1.1865E-04	2.4373E-06	1.2108E-04
468936.30	3766172.53	1.0683E-04	3.7286E-06	1.1056E-04
468877.83	3765496.02	1.1502E-04	2.4349E-06	1.1745E-04
468976.30	3766296.84	1.0668E-04	3.8686E-06	1.1055E-04
469034.59	3766424.78	1.0710E-04	4.0326E-06	1.1113E-04
469340.21	3765182.51	1.1729E-04	1.9401E-06	1.1923E-04
469089.64	3766580.83	1.0797E-04	4.0749E-06	1.1204E-04
469723.73	3765274.43	1.1468E-04	1.9711E-06	1.1665E-04
469367.20	3765182.56	1.1662E-04	1.9196E-06	1.1854E-04
469020.65	3765308.90	1.7193E-04	3.5748E-06	1.7550E-04
468894.60	3765455.38	1.1519E-04	2.3954E-06	1.1759E-04
469421.18	3765182.68	1.1565E-04	1.8924E-06	1.1754E-04
469799.30	3765321.28	1.1357E-04	2.0329E-06	1.1560E-04
468939.30	3766190.74	1.0538E-04	3.6979E-06	1.0908E-04
469537.48	3765196.75	1.1456E-04	1.8795E-06	1.1644E-04
469009.81	3766380.38	1.0549E-04	3.9186E-06	1.0941E-04
469448.17	3765182.73	1.1492E-04	1.8806E-06	1.1680E-04
469394.19	3765182.62	1.1521E-04	1.8947E-06	1.1711E-04
468979.30	3766315.04	1.0493E-04	3.8191E-06	1.0875E-04
469152.62	3766700.69	1.0681E-04	4.1851E-06	1.1099E-04
468876.59	3765476.31	1.1275E-04	2.3776E-06	1.1513E-04
469475.16	3765182.79	1.1391E-04	1.8682E-06	1.1577E-04
468947.38	3765372.89	1.2377E-04	2.5130E-06	1.2629E-04
468965.39	3765351.96	1.2859E-04	2.6038E-06	1.3120E-04
468942.29	3766208.94	1.0431E-04	3.6775E-06	1.0799E-04

468929.37	3765393.81	1.2025E-04	2.4561E-06	1.2270E-04
469771.15	3765295.84	1.1226E-04	1.9837E-06	1.1424E-04
469080.01	3766564.39	1.0549E-04	4.0062E-06	1.0950E-04
469616.06	3765218.02	1.1301E-04	1.8835E-06	1.1490E-04
469038.59	3766448.65	1.0474E-04	3.9495E-06	1.0869E-04
469644.08	3765228.16	1.1281E-04	1.8936E-06	1.1471E-04
468911.36	3765414.74	1.1646E-04	2.3950E-06	1.1885E-04
468983.40	3765331.03	1.3560E-04	2.7546E-06	1.3835E-04
469502.15	3765182.85	1.1281E-04	1.8580E-06	1.1466E-04
468945.29	3766227.15	1.0344E-04	3.6627E-06	1.0710E-04
469694.67	3765247.11	1.1178E-04	1.9125E-06	1.1369E-04
469125.70	3766678.22	1.0516E-04	4.0894E-06	1.0925E-04
469001.41	3765310.11	1.4779E-04	3.0363E-06	1.5082E-04
468893.36	3765435.66	1.1275E-04	2.3425E-06	1.1510E-04
469174.20	3766727.91	1.0626E-04	4.0639E-06	1.1032E-04
468982.30	3766333.25	1.0294E-04	3.7587E-06	1.0670E-04
469068.52	3766508.91	1.0391E-04	3.9529E-06	1.0787E-04
469582.10	3765198.05	1.1112E-04	1.8522E-06	1.1297E-04
469070.37	3766547.94	1.0353E-04	3.9367E-06	1.0747E-04
469327.03	3765168.99	1.1302E-04	1.8998E-06	1.1492E-04
469742.09	3765268.52	1.1012E-04	1.9276E-06	1.1205E-04
469408.00	3765169.16	1.1177E-04	1.8543E-06	1.1363E-04
469019.41	3765289.18	1.7507E-04	3.6787E-06	1.7874E-04
469434.99	3765169.21	1.1143E-04	1.8456E-06	1.1327E-04
468875.35	3765456.59	1.1039E-04	2.3234E-06	1.1272E-04
468858.58	3765497.23	1.0852E-04	2.3899E-06	1.1091E-04
468985.30	3766351.06	1.0184E-04	3.7299E-06	1.0557E-04
469354.02	3765169.04	1.1188E-04	1.8734E-06	1.1375E-04
469381.01	3765169.10	1.1150E-04	1.8589E-06	1.1336E-04
469461.98	3765169.27	1.1060E-04	1.8341E-06	1.1243E-04
469088.01	3766613.93	1.0307E-04	3.8502E-06	1.0692E-04
469012.47	3766405.90	1.0170E-04	3.7844E-06	1.0548E-04
469552.05	3765184.54	1.0981E-04	1.8308E-06	1.1164E-04
468928.13	3765374.10	1.1759E-04	2.4063E-06	1.2000E-04
469078.59	3766597.86	1.0252E-04	3.8415E-06	1.0636E-04
468946.14	3765353.17	1.2116E-04	2.4673E-06	1.2363E-04
468910.12	3765395.02	1.1387E-04	2.3435E-06	1.1621E-04
468964.15	3765332.24	1.2604E-04	2.5642E-06	1.2860E-04
469661.87	3765221.30	1.0890E-04	1.8570E-06	1.1076E-04
469488.97	3765169.33	1.0960E-04	1.8232E-06	1.1142E-04
468948.28	3766245.36	1.0074E-04	3.5847E-06	1.0432E-04
468857.34	3765477.52	1.0814E-04	2.3098E-06	1.1045E-04
469097.43	3766630.00	1.0229E-04	3.8117E-06	1.0610E-04
468892.12	3765415.95	1.1050E-04	2.2948E-06	1.1280E-04
469060.73	3766531.50	1.0124E-04	3.8402E-06	1.0508E-04
469789.51	3765289.93	1.0772E-04	1.9374E-06	1.0965E-04
468982.16	3765311.32	1.3348E-04	2.7296E-06	1.3621E-04
469059.39	3766493.33	1.0092E-04	3.8253E-06	1.0474E-04
469713.03	3765241.20	1.0781E-04	1.8752E-06	1.0969E-04
469106.86	3766646.07	1.0178E-04	3.7752E-06	1.0556E-04
469515.96	3765169.38	1.0806E-04	1.8071E-06	1.0987E-04
468874.11	3765436.87	1.0807E-04	2.2715E-06	1.1035E-04
469000.17	3765290.39	1.4693E-04	3.0440E-06	1.4997E-04
469157.05	3766721.64	1.0139E-04	3.9256E-06	1.0532E-04
469627.02	3765199.84	1.0735E-04	1.8248E-06	1.0917E-04
469015.56	3766427.76	9.9454E-05	3.7075E-06	1.0316E-04
469394.82	3765155.64	1.0841E-04	1.8209E-06	1.1023E-04
468951.28	3766263.56	9.9152E-05	3.5420E-06	1.0269E-04
469069.17	3766581.79	9.9982E-05	3.7739E-06	1.0376E-04
469421.81	3765155.69	1.0789E-04	1.8094E-06	1.0970E-04
469597.86	3765187.82	1.0682E-04	1.8086E-06	1.0863E-04
468990.79	3766383.59	9.8863E-05	3.6378E-06	1.0250E-04
469367.83	3765155.58	1.0822E-04	1.8269E-06	1.1005E-04
469448.80	3765155.75	1.0744E-04	1.8012E-06	1.0924E-04
469313.85	3765155.47	1.0889E-04	1.8595E-06	1.1075E-04
469760.45	3765262.61	1.0592E-04	1.8859E-06	1.0781E-04
468856.10	3765457.80	1.0598E-04	2.2565E-06	1.0824E-04
469018.18	3765269.47	1.7960E-04	3.8129E-06	1.8341E-04
469059.75	3766565.71	9.9068E-05	3.7434E-06	1.0281E-04
468926.89	3765354.38	1.1500E-04	2.3582E-06	1.1736E-04
469340.84	3765155.52	1.0786E-04	1.8335E-06	1.0969E-04
468908.89	3765375.31	1.1159E-04	2.3008E-06	1.1389E-04

468944.90	3765333.45	1.1855E-04	2.4223E-06	1.2097E-04
469475.79	3765155.81	1.0646E-04	1.7892E-06	1.0825E-04
469051.09	3766515.06	9.8434E-05	3.7171E-06	1.0215E-04
468890.88	3765396.23	1.0833E-04	2.2499E-06	1.1058E-04
468962.91	3765312.53	1.2353E-04	2.5259E-06	1.2605E-04
469679.66	3765214.45	1.0515E-04	1.8209E-06	1.0697E-04
469565.21	3765170.00	1.0479E-04	1.7773E-06	1.0657E-04
469502.78	3765155.86	1.0513E-04	1.7739E-06	1.0690E-04
468872.87	3765417.16	1.0577E-04	2.2212E-06	1.0800E-04
469139.91	3766715.37	9.8638E-05	3.8046E-06	1.0244E-04
468980.92	3765291.60	1.3143E-04	2.7057E-06	1.3414E-04
469731.39	3765235.28	1.0400E-04	1.8382E-06	1.0584E-04
468954.28	3766281.77	9.6672E-05	3.4660E-06	1.0014E-04
469019.63	3766452.21	9.6800E-05	3.6142E-06	1.0041E-04
469381.64	3765142.12	1.0529E-04	1.7893E-06	1.0707E-04
469408.63	3765142.17	1.0501E-04	1.7800E-06	1.0679E-04
468854.86	3765438.08	1.0380E-04	2.2064E-06	1.0601E-04
469643.67	3765191.10	1.0343E-04	1.7848E-06	1.0521E-04
469354.65	3765142.06	1.0506E-04	1.7954E-06	1.0686E-04
468998.93	3765270.68	1.4650E-04	3.0604E-06	1.4956E-04
469435.62	3765142.23	1.0425E-04	1.7673E-06	1.0602E-04
469529.77	3765155.92	1.0356E-04	1.7578E-06	1.0532E-04
469050.32	3766549.64	9.5978E-05	3.6208E-06	9.9599E-05
468925.65	3765334.66	1.1243E-04	2.3108E-06	1.1475E-04
468907.65	3765355.59	1.0951E-04	2.2635E-06	1.1177E-04
469462.61	3765142.29	1.0342E-04	1.7559E-06	1.0517E-04
469778.80	3765256.69	1.0202E-04	1.8461E-06	1.0387E-04
469669.99	3765198.40	1.0256E-04	1.7855E-06	1.0435E-04
468889.64	3765376.52	1.0611E-04	2.2052E-06	1.0831E-04
469327.65	3765142.00	1.0441E-04	1.7989E-06	1.0621E-04
468943.66	3765313.74	1.1594E-04	2.3779E-06	1.1832E-04
469116.28	3766662.15	9.6676E-05	3.6039E-06	1.0028E-04
469300.66	3765141.95	1.0477E-04	1.8173E-06	1.0658E-04
468993.27	3766407.73	9.4958E-05	3.4995E-06	9.8458E-05
469016.94	3765249.75	1.8763E-04	4.0254E-06	1.9166E-04
468871.63	3765397.44	1.0349E-04	2.1722E-06	1.0566E-04
469076.59	3766630.34	9.5508E-05	3.5573E-06	9.9066E-05
469489.60	3765142.34	1.0227E-04	1.7418E-06	1.0402E-04
469609.96	3765171.52	1.0158E-04	1.7512E-06	1.0334E-04
469067.36	3766614.59	9.5022E-05	3.5635E-06	9.8586E-05
469040.90	3766533.57	9.4806E-05	3.5646E-06	9.8371E-05
468961.67	3765292.81	1.2108E-04	2.4886E-06	1.2357E-04
468957.27	3766299.97	9.4220E-05	3.3885E-06	9.7609E-05
469031.81	3766482.17	9.4483E-05	3.5412E-06	9.8024E-05
469058.13	3766598.84	9.4694E-05	3.5541E-06	9.8248E-05
468853.62	3765418.37	1.0165E-04	2.1581E-06	1.0381E-04
469749.74	3765229.37	1.0038E-04	1.8020E-06	1.0219E-04
469368.45	3765128.60	1.0226E-04	1.7582E-06	1.0402E-04
469041.45	3766498.61	9.4055E-05	3.5354E-06	9.7591E-05
469395.44	3765128.65	1.0187E-04	1.7462E-06	1.0362E-04
468979.68	3765271.89	1.2951E-04	2.6832E-06	1.3219E-04
468996.52	3766430.74	9.3460E-05	3.4523E-06	9.6912E-05
469579.67	3765157.62	1.0059E-04	1.7318E-06	1.0232E-04
469516.59	3765142.40	1.0092E-04	1.7268E-06	1.0264E-04
469422.44	3765128.71	1.0128E-04	1.7355E-06	1.0301E-04
469341.46	3765128.54	1.0197E-04	1.7637E-06	1.0373E-04
469660.32	3765182.35	9.9688E-05	1.7458E-06	1.0143E-04
469689.48	3765194.38	9.9639E-05	1.7577E-06	1.0140E-04
469039.66	3766567.34	9.3036E-05	3.4946E-06	9.6530E-05
469085.83	3766646.09	9.3687E-05	3.4924E-06	9.7179E-05
468906.41	3765335.87	1.0658E-04	2.2043E-06	1.0878E-04
469449.43	3765128.77	1.0047E-04	1.7234E-06	1.0219E-04
468997.69	3765250.96	1.4672E-04	3.0905E-06	1.4981E-04
468888.40	3765356.80	1.0382E-04	2.1600E-06	1.0598E-04
468924.42	3765314.95	1.0981E-04	2.2634E-06	1.1207E-04
469048.89	3766583.09	9.2859E-05	3.4906E-06	9.6349E-05
469113.53	3766693.34	9.3670E-05	3.4384E-06	9.7108E-05
469543.58	3765142.46	9.9364E-05	1.7113E-06	1.0107E-04
469314.47	3765128.48	1.0127E-04	1.7668E-06	1.0304E-04
468870.39	3765377.73	1.0128E-04	2.1255E-06	1.0340E-04
468942.42	3765294.02	1.1336E-04	2.3338E-06	1.1569E-04
469031.48	3766517.50	9.2172E-05	3.4517E-06	9.5623E-05

469476.42	3765128.82	9.9479E-05	1.7101E-06	1.0119E-04
469716.43	3765202.73	9.8583E-05	1.7576E-06	1.0034E-04
468852.38	3765398.65	9.9529E-05	2.1112E-06	1.0164E-04
468960.43	3765273.10	1.1863E-04	2.4506E-06	1.2108E-04
469625.48	3765160.89	9.7789E-05	1.7101E-06	9.9500E-05
469503.41	3765128.88	9.8307E-05	1.6962E-06	1.0000E-04
469355.27	3765115.08	9.9072E-05	1.7234E-06	1.0080E-04
469382.26	3765115.13	9.8754E-05	1.7122E-06	1.0047E-04
469768.10	3765223.46	9.6877E-05	1.7659E-06	9.8643E-05
469409.25	3765115.19	9.8266E-05	1.7015E-06	9.9968E-05
468978.44	3765252.17	1.2761E-04	2.6603E-06	1.3027E-04
469650.66	3765166.31	9.6874E-05	1.7069E-06	9.8581E-05
469000.68	3766455.76	9.0365E-05	3.3433E-06	9.3709E-05
469328.28	3765115.02	9.8947E-05	1.7319E-06	1.0068E-04
469436.24	3765115.25	9.7604E-05	1.6915E-06	9.9295E-05
469530.40	3765128.94	9.6945E-05	1.6816E-06	9.8626E-05
468887.16	3765337.08	1.0150E-04	2.1142E-06	1.0361E-04
468905.17	3765316.16	1.0459E-04	2.1701E-06	1.0676E-04
468960.27	3766318.18	8.9950E-05	3.2421E-06	9.3192E-05
469706.83	3765186.79	9.6152E-05	1.7211E-06	9.7873E-05
468966.28	3766354.27	8.9810E-05	3.2540E-06	9.3064E-05
468869.15	3765358.01	9.9139E-05	2.0811E-06	1.0122E-04
469278.42	3765121.54	9.9067E-05	1.7577E-06	1.0082E-04
469592.91	3765143.21	9.6305E-05	1.6837E-06	9.7988E-05
468923.18	3765295.23	1.0720E-04	2.2161E-06	1.0941E-04
469463.23	3765115.30	9.6756E-05	1.6788E-06	9.8435E-05
468963.27	3766336.38	8.9509E-05	3.2341E-06	9.2743E-05
469104.29	3766677.59	9.0475E-05	3.3686E-06	9.3844E-05
469095.06	3766661.84	9.0144E-05	3.3765E-06	9.3520E-05
468851.14	3765378.94	9.7418E-05	2.0653E-06	9.9483E-05
469735.30	3765197.65	9.5518E-05	1.7267E-06	9.7244E-05
468941.18	3765274.31	1.1072E-04	2.2886E-06	1.1301E-04
469557.39	3765128.99	9.5419E-05	1.6666E-06	9.7085E-05
469490.22	3765115.36	9.5743E-05	1.6660E-06	9.7409E-05
469030.43	3766551.59	8.8747E-05	3.3164E-06	9.2063E-05
469671.29	3765164.17	9.4612E-05	1.6857E-06	9.6297E-05
469260.39	3765118.07	9.7819E-05	1.7521E-06	9.9571E-05
468959.19	3765253.38	1.1606E-04	2.4092E-06	1.1847E-04
469369.08	3765101.61	9.5761E-05	1.6791E-06	9.7440E-05
469640.99	3765150.26	9.4222E-05	1.6705E-06	9.5892E-05
469342.09	3765101.56	9.6039E-05	1.6910E-06	9.7730E-05
469021.19	3766535.84	8.8005E-05	3.2797E-06	9.1284E-05
469396.07	3765101.67	9.5380E-05	1.6691E-06	9.7049E-05
469517.22	3765115.42	9.4546E-05	1.6522E-06	9.6198E-05
468971.77	3766386.80	8.7845E-05	3.1958E-06	9.1040E-05
469291.20	3765107.88	9.6529E-05	1.7176E-06	9.8247E-05
469697.23	3765170.84	9.3672E-05	1.6840E-06	9.5356E-05
469423.06	3765101.73	9.4834E-05	1.6590E-06	9.6493E-05
468885.92	3765317.37	9.9349E-05	2.0736E-06	1.0142E-04
469022.06	3766501.43	8.7620E-05	3.2647E-06	9.0884E-05
468867.91	3765338.29	9.7021E-05	2.0376E-06	9.9058E-05
468903.93	3765296.44	1.0207E-04	2.1223E-06	1.0419E-04
469012.63	3766485.35	8.7435E-05	3.2467E-06	9.0682E-05
469450.05	3765101.78	9.4115E-05	1.6481E-06	9.5763E-05
468849.90	3765359.22	9.5324E-05	2.0206E-06	9.7345E-05
468921.94	3765275.52	1.0457E-04	2.1683E-06	1.0674E-04
469544.21	3765115.47	9.3191E-05	1.6381E-06	9.4829E-05
469753.20	3765190.99	9.2353E-05	1.6926E-06	9.4046E-05
469607.28	3765130.69	9.2609E-05	1.6415E-06	9.4250E-05
469477.04	3765101.84	9.3241E-05	1.6363E-06	9.4877E-05
469272.65	3765104.31	9.5328E-05	1.7112E-06	9.7039E-05
468939.95	3765254.59	1.0800E-04	2.2410E-06	1.1025E-04
469011.96	3766520.09	8.6180E-05	3.2006E-06	8.9381E-05
469304.23	3765094.27	9.4207E-05	1.6813E-06	9.5889E-05
468974.07	3766409.56	8.5792E-05	3.1268E-06	8.8919E-05
469631.33	3765134.22	9.1646E-05	1.6352E-06	9.3281E-05
469504.03	3765101.90	9.2191E-05	1.6234E-06	9.3814E-05
469571.20	3765115.53	9.1707E-05	1.6236E-06	9.3330E-05
469687.63	3765154.90	9.1314E-05	1.6487E-06	9.2962E-05
469254.11	3765100.74	9.4546E-05	1.7108E-06	9.6256E-05
469717.10	3765167.45	9.1152E-05	1.6587E-06	9.2810E-05
469355.90	3765088.09	9.2915E-05	1.6477E-06	9.4563E-05

469382.89	3765088.15	9.2599E-05	1.6375E-06	9.4237E-05
469409.88	3765088.21	9.2153E-05	1.6278E-06	9.3781E-05
468866.67	3765318.58	9.4932E-05	1.9954E-06	9.6928E-05
468884.68	3765297.65	9.7492E-05	2.0403E-06	9.9532E-05
468848.66	3765339.50	9.3251E-05	1.9768E-06	9.5228E-05
468902.69	3765276.73	9.9529E-05	2.0739E-06	1.0160E-04
469285.30	3765090.63	9.3106E-05	1.6750E-06	9.4781E-05
469531.02	3765101.95	9.0991E-05	1.6100E-06	9.2601E-05
469436.87	3765088.26	9.1565E-05	1.6185E-06	9.3183E-05
469743.65	3765175.13	9.0240E-05	1.6586E-06	9.1898E-05
468977.48	3766433.72	8.4289E-05	3.0796E-06	8.7368E-05
469653.10	3765133.97	8.9987E-05	1.6199E-06	9.1607E-05
469463.86	3765088.32	9.0797E-05	1.6069E-06	9.2404E-05
468920.70	3765255.80	1.0186E-04	2.1183E-06	1.0398E-04
469266.37	3765086.98	9.2358E-05	1.6736E-06	9.4032E-05
469317.44	3765080.69	9.1542E-05	1.6420E-06	9.3184E-05
469558.01	3765102.01	8.9661E-05	1.5964E-06	9.1258E-05
469490.85	3765088.38	8.9887E-05	1.5951E-06	9.1482E-05
469678.02	3765138.96	8.9037E-05	1.6152E-06	9.0652E-05
469621.66	3765118.17	8.9122E-05	1.6007E-06	9.0723E-05
469369.71	3765074.63	8.9957E-05	1.6077E-06	9.1565E-05
469298.21	3765076.99	9.0639E-05	1.6368E-06	9.2276E-05
469247.45	3765083.34	9.1460E-05	1.6708E-06	9.3131E-05
469396.70	3765074.69	8.9566E-05	1.5976E-06	9.1164E-05
469734.09	3765159.27	8.8128E-05	1.6244E-06	8.9752E-05
469517.84	3765088.43	8.8828E-05	1.5826E-06	9.0411E-05
468865.43	3765298.86	9.2891E-05	1.9555E-06	9.4846E-05
468847.42	3765319.79	9.1191E-05	1.9337E-06	9.3125E-05
468883.44	3765277.94	9.5185E-05	1.9959E-06	9.7181E-05
469585.01	3765102.07	8.8218E-05	1.5822E-06	8.9800E-05
469423.69	3765074.74	8.9072E-05	1.5885E-06	9.0661E-05
469002.72	3766504.34	8.2339E-05	3.0425E-06	8.5382E-05
468901.45	3765257.01	9.6904E-05	2.0240E-06	9.8928E-05
469450.68	3765074.80	8.8416E-05	1.5780E-06	8.9994E-05
469544.83	3765088.49	8.7644E-05	1.5698E-06	8.9213E-05
469698.91	3765137.24	8.7061E-05	1.5956E-06	8.8656E-05
469334.31	3765067.82	8.8887E-05	1.6027E-06	9.0490E-05
469278.98	3765073.29	8.9557E-05	1.6297E-06	9.1187E-05
469477.67	3765074.86	8.7629E-05	1.5672E-06	8.9196E-05
469668.42	3765123.02	8.6789E-05	1.5822E-06	8.8371E-05
469612.00	3765102.12	8.6670E-05	1.5672E-06	8.8237E-05
469259.75	3765069.59	8.8962E-05	1.6295E-06	9.0591E-05
469724.54	3765143.41	8.6073E-05	1.5913E-06	8.7664E-05
469504.66	3765074.91	8.6704E-05	1.5556E-06	8.8259E-05
469571.82	3765088.55	8.6341E-05	1.5564E-06	8.7897E-05
468846.19	3765300.07	8.9156E-05	1.8915E-06	9.1047E-05
469383.52	3765061.17	8.7090E-05	1.5686E-06	8.8659E-05
468864.19	3765279.15	9.0891E-05	1.9170E-06	9.2808E-05
468993.49	3766488.59	8.0478E-05	2.9599E-06	8.3438E-05
469410.51	3765061.22	8.6665E-05	1.5595E-06	8.8225E-05
469634.90	3765103.76	8.5562E-05	1.5575E-06	8.7120E-05
468882.20	3765258.22	9.2719E-05	1.9475E-06	9.4666E-05
469531.65	3765074.97	8.5648E-05	1.5436E-06	8.7191E-05
469437.50	3765061.28	8.6124E-05	1.5505E-06	8.7675E-05
468900.21	3765237.29	9.4232E-05	1.9725E-06	9.6204E-05
469598.81	3765088.60	8.4935E-05	1.5424E-06	8.6477E-05
469464.49	3765061.34	8.5428E-05	1.5398E-06	8.6968E-05
469658.82	3765107.08	8.4598E-05	1.5503E-06	8.6148E-05
469347.46	3765054.23	8.6172E-05	1.5643E-06	8.7736E-05
469714.99	3765127.56	8.4090E-05	1.5599E-06	8.5650E-05
469558.64	3765075.03	8.4480E-05	1.5311E-06	8.6011E-05
469491.48	3765061.39	8.4618E-05	1.5291E-06	8.6147E-05
468844.95	3765280.36	8.7304E-05	1.8545E-06	8.9159E-05
468862.95	3765259.43	8.9050E-05	1.8828E-06	9.0933E-05
469518.47	3765061.45	8.3690E-05	1.5179E-06	8.5208E-05
469397.32	3765047.70	8.4333E-05	1.5309E-06	8.5864E-05
469680.71	3765107.04	8.3111E-05	1.5359E-06	8.4647E-05
469311.41	3765047.29	8.4979E-05	1.5569E-06	8.6536E-05
469585.63	3765075.08	8.3209E-05	1.5180E-06	8.4727E-05
468880.96	3765238.50	9.0197E-05	1.8978E-06	9.2095E-05
469424.31	3765047.76	8.3872E-05	1.5223E-06	8.5395E-05
469451.31	3765047.82	8.3289E-05	1.5130E-06	8.4802E-05

469649.22	3765091.14	8.2467E-05	1.5195E-06	8.3987E-05
468898.97	3765217.58	9.1468E-05	1.9186E-06	9.3387E-05
469545.46	3765061.51	8.2647E-05	1.5062E-06	8.4153E-05
469705.44	3765111.70	8.2149E-05	1.5296E-06	8.3678E-05
469293.38	3765043.82	8.4272E-05	1.5523E-06	8.5824E-05
469360.71	3765040.66	8.3554E-05	1.5272E-06	8.5082E-05
469478.30	3765047.87	8.2580E-05	1.5031E-06	8.4083E-05
469612.62	3765075.14	8.1844E-05	1.5041E-06	8.3349E-05
469572.45	3765061.56	8.1498E-05	1.4939E-06	8.2992E-05
469505.29	3765047.93	8.1764E-05	1.4927E-06	8.3257E-05
469275.35	3765040.35	8.3352E-05	1.5451E-06	8.4897E-05
468861.71	3765239.71	8.6690E-05	1.8353E-06	8.8525E-05
469324.10	3765033.61	8.2495E-05	1.5203E-06	8.4016E-05
469411.13	3765034.24	8.1702E-05	1.4952E-06	8.3197E-05
469257.32	3765036.88	8.2844E-05	1.5438E-06	8.4388E-05
468879.72	3765218.79	8.7624E-05	1.8468E-06	8.9471E-05
469532.28	3765047.99	8.0836E-05	1.4817E-06	8.2318E-05
468835.60	3765262.16	8.3993E-05	1.7912E-06	8.5785E-05
469639.61	3765075.20	8.0385E-05	1.4894E-06	8.1875E-05
469695.89	3765095.84	8.0252E-05	1.5003E-06	8.1752E-05
469438.12	3765034.30	8.1215E-05	1.4871E-06	8.2702E-05
469599.44	3765061.62	8.0259E-05	1.4810E-06	8.1740E-05
469305.80	3765030.09	8.1889E-05	1.5162E-06	8.3405E-05
469465.11	3765034.35	8.0587E-05	1.4774E-06	8.2064E-05
469374.05	3765027.10	8.0985E-05	1.4901E-06	8.2475E-05
469559.27	3765048.04	7.9802E-05	1.4702E-06	8.1272E-05
469662.52	3765076.84	7.9335E-05	1.4796E-06	8.0815E-05
469492.10	3765034.41	7.9870E-05	1.4678E-06	8.1338E-05
469287.50	3765026.56	8.1203E-05	1.5113E-06	8.2715E-05
469355.51	3765023.53	8.0616E-05	1.4891E-06	8.2105E-05
469626.43	3765061.68	7.8928E-05	1.4672E-06	8.0395E-05
468889.22	3765195.80	8.6599E-05	1.8236E-06	8.8422E-05
469519.10	3765034.47	7.9047E-05	1.4576E-06	8.0504E-05
468860.48	3765220.00	8.4297E-05	1.7870E-06	8.6084E-05
469336.96	3765019.96	8.0111E-05	1.4854E-06	8.1596E-05
469586.26	3765048.10	7.8681E-05	1.4582E-06	8.0140E-05
469686.33	3765079.98	7.8391E-05	1.4717E-06	7.9863E-05
469424.94	3765020.78	7.9182E-05	1.4610E-06	8.0643E-05
469269.19	3765023.04	8.0366E-05	1.5045E-06	8.1870E-05
468830.81	3765244.47	8.1668E-05	1.7458E-06	8.3414E-05
469451.93	3765020.83	7.8643E-05	1.4522E-06	8.0095E-05
469546.09	3765034.52	7.8121E-05	1.4468E-06	7.9567E-05
469250.89	3765019.52	7.9819E-05	1.5021E-06	8.1321E-05
469387.44	3765013.56	7.8556E-05	1.4557E-06	8.0012E-05
469478.92	3765020.89	7.8016E-05	1.4433E-06	7.9459E-05
469613.25	3765048.16	7.7469E-05	1.4453E-06	7.8914E-05
469299.88	3765012.83	7.8965E-05	1.4768E-06	8.0441E-05
468870.11	3765196.79	8.3250E-05	1.7618E-06	8.5012E-05
469573.08	3765034.58	7.7102E-05	1.4354E-06	7.8538E-05
469505.91	3765020.95	7.7291E-05	1.4340E-06	7.8725E-05
469676.78	3765064.13	7.6571E-05	1.4440E-06	7.8015E-05
469349.95	3765006.34	7.7823E-05	1.4520E-06	7.9275E-05
469281.33	3765009.26	7.8311E-05	1.4718E-06	7.9782E-05
469640.24	3765048.21	7.6169E-05	1.4316E-06	7.7600E-05
468880.05	3765180.41	8.2944E-05	1.7522E-06	8.4696E-05
469532.90	3765021.00	7.6466E-05	1.4239E-06	7.7890E-05
469438.75	3765007.31	7.6769E-05	1.4281E-06	7.8197E-05
469600.07	3765034.64	7.6003E-05	1.4235E-06	7.7427E-05
469331.20	3765002.73	7.7321E-05	1.4479E-06	7.8769E-05
469465.74	3765007.37	7.6209E-05	1.4194E-06	7.7629E-05
469262.79	3765005.69	7.7491E-05	1.4647E-06	7.8955E-05
469559.89	3765021.06	7.5552E-05	1.4133E-06	7.6965E-05
469400.89	3765000.03	7.6242E-05	1.4233E-06	7.7665E-05
468850.99	3765197.79	8.0325E-05	1.7097E-06	8.2035E-05
469312.45	3764999.12	7.6775E-05	1.4434E-06	7.8218E-05
469492.73	3765007.43	7.5568E-05	1.4107E-06	7.6979E-05
469667.23	3765048.27	7.4796E-05	1.4171E-06	7.6213E-05
469627.06	3765034.69	7.4817E-05	1.4108E-06	7.6228E-05
468864.72	3765180.81	8.0481E-05	1.7073E-06	8.2188E-05
469293.70	3764995.52	7.6194E-05	1.4388E-06	7.7633E-05
469519.72	3765007.48	7.4835E-05	1.4013E-06	7.6236E-05
469586.88	3765021.12	7.4551E-05	1.4021E-06	7.5953E-05

469363.03	3764992.74	7.5598E-05	1.4193E-06	7.7017E-05
468878.96	3765162.78	8.0498E-05	1.7026E-06	8.2200E-05
469344.11	3764989.10	7.5174E-05	1.4160E-06	7.6590E-05
469452.56	3764993.85	7.4441E-05	1.3958E-06	7.5837E-05
469274.95	3764991.91	7.5545E-05	1.4334E-06	7.6978E-05
469546.71	3765007.54	7.4015E-05	1.3915E-06	7.5407E-05
469654.05	3765034.75	7.3549E-05	1.3971E-06	7.4946E-05
468816.09	3765212.87	7.6933E-05	1.6564E-06	7.8589E-05
469613.88	3765021.17	7.3468E-05	1.3902E-06	7.4858E-05
469479.55	3764993.91	7.3880E-05	1.3878E-06	7.5268E-05
468846.67	3765182.11	7.7985E-05	1.6633E-06	7.9649E-05
469325.18	3764985.45	7.4681E-05	1.4117E-06	7.6092E-05
469414.38	3764986.50	7.4021E-05	1.3921E-06	7.5413E-05
469256.20	3764988.30	7.4809E-05	1.4269E-06	7.6236E-05
469573.70	3765007.60	7.3108E-05	1.3809E-06	7.4489E-05
468863.63	3765163.18	7.8240E-05	1.6617E-06	7.9902E-05
469506.54	3764993.96	7.3228E-05	1.3792E-06	7.4607E-05
469395.29	3764982.83	7.3765E-05	1.3905E-06	7.5156E-05
469306.25	3764981.81	7.4143E-05	1.4070E-06	7.5550E-05
469376.21	3764979.15	7.3458E-05	1.3881E-06	7.4846E-05
469640.87	3765021.23	7.2303E-05	1.3774E-06	7.3681E-05
469533.53	3764994.02	7.2496E-05	1.3700E-06	7.3866E-05
469600.69	3765007.65	7.2120E-05	1.3697E-06	7.3489E-05
469287.32	3764978.17	7.3573E-05	1.4021E-06	7.4975E-05
469357.12	3764975.48	7.3096E-05	1.3852E-06	7.4481E-05
468873.89	3765144.03	7.7372E-05	1.6400E-06	7.9012E-05
469466.37	3764980.39	7.2226E-05	1.3652E-06	7.3591E-05
469560.52	3764994.08	7.1680E-05	1.3601E-06	7.3040E-05
469338.03	3764971.81	7.2664E-05	1.3813E-06	7.4045E-05
468844.95	3765164.02	7.5780E-05	1.6184E-06	7.7398E-05
469268.39	3764974.52	7.2911E-05	1.3960E-06	7.4307E-05
469493.36	3764980.44	7.1650E-05	1.3573E-06	7.3007E-05
469427.91	3764972.98	7.1883E-05	1.3619E-06	7.3245E-05
469627.68	3765007.71	7.1054E-05	1.3578E-06	7.2412E-05
469318.94	3764968.13	7.2179E-05	1.3768E-06	7.3556E-05
469408.68	3764969.28	7.1663E-05	1.3604E-06	7.3024E-05
469587.51	3764994.13	7.0782E-05	1.3496E-06	7.2132E-05
469520.35	3764980.50	7.0992E-05	1.3486E-06	7.2340E-05
468858.56	3765144.43	7.5368E-05	1.6043E-06	7.6972E-05
469249.46	3764970.88	7.2277E-05	1.3905E-06	7.3667E-05
469389.45	3764965.58	7.1407E-05	1.3583E-06	7.2765E-05
469299.85	3764964.46	7.1650E-05	1.3719E-06	7.3022E-05
469370.22	3764961.88	7.1088E-05	1.3555E-06	7.2443E-05
469547.34	3764980.56	7.0257E-05	1.3394E-06	7.1597E-05
469614.50	3764994.19	6.9807E-05	1.3384E-06	7.1145E-05
469480.18	3764966.92	7.0098E-05	1.3355E-06	7.1433E-05
469280.77	3764960.78	7.1087E-05	1.3667E-06	7.2454E-05
469350.99	3764958.18	7.0707E-05	1.3519E-06	7.2059E-05
469460.82	3764963.20	6.9975E-05	1.3339E-06	7.1308E-05
469574.33	3764980.61	6.9443E-05	1.3295E-06	7.0773E-05
468841.94	3765144.21	7.3277E-05	1.5676E-06	7.4845E-05
469441.46	3764959.47	6.9818E-05	1.3323E-06	7.1150E-05
468867.81	3765122.25	7.3934E-05	1.5711E-06	7.5505E-05
469507.17	3764966.98	6.9512E-05	1.3276E-06	7.0839E-05
469331.76	3764954.48	7.0275E-05	1.3477E-06	7.1623E-05
469422.11	3764955.75	6.9650E-05	1.3314E-06	7.0981E-05
469261.68	3764957.11	7.0448E-05	1.3605E-06	7.1808E-05
468808.27	3765168.61	7.1832E-05	1.5521E-06	7.3384E-05
469534.16	3764967.04	6.8851E-05	1.3190E-06	7.0170E-05
469402.75	3764952.02	6.9438E-05	1.3297E-06	7.0767E-05
469312.53	3764950.78	6.9797E-05	1.3430E-06	7.1140E-05
469601.32	3764980.67	6.8553E-05	1.3191E-06	6.9872E-05
469383.40	3764948.30	6.9145E-05	1.3268E-06	7.0472E-05
468852.49	3765122.65	7.2188E-05	1.5408E-06	7.3728E-05
469293.30	3764947.08	6.9277E-05	1.3379E-06	7.0615E-05
469561.15	3764967.09	6.8113E-05	1.3097E-06	6.9423E-05
469364.04	3764944.57	6.8806E-05	1.3233E-06	7.0130E-05
469493.98	3764953.46	6.8061E-05	1.3069E-06	6.9368E-05
469344.68	3764940.84	6.8420E-05	1.3193E-06	6.9740E-05
469274.07	3764943.37	6.8730E-05	1.3326E-06	7.0062E-05
469588.14	3764967.15	6.7303E-05	1.2999E-06	6.8603E-05
469520.97	3764953.52	6.7469E-05	1.2990E-06	6.8768E-05

468836.77	3765123.11	7.0487E-05	1.5116E-06	7.1998E-05
469325.33	3764937.12	6.7983E-05	1.3148E-06	6.9297E-05
468862.75	3765101.48	7.0972E-05	1.5117E-06	7.2484E-05
469254.84	3764939.67	6.8095E-05	1.3260E-06	6.9421E-05
469547.97	3764953.57	6.6803E-05	1.2903E-06	6.8093E-05
469305.97	3764933.39	6.7506E-05	1.3098E-06	6.8816E-05
469574.96	3764953.63	6.6071E-05	1.2811E-06	6.7353E-05
469507.79	3764940.00	6.6110E-05	1.2792E-06	6.7390E-05
468847.42	3765101.88	6.9372E-05	1.4843E-06	7.0856E-05
469286.62	3764929.67	6.7005E-05	1.3047E-06	6.8309E-05
469470.43	3764932.80	6.5966E-05	1.2771E-06	6.7243E-05
469451.74	3764929.21	6.5845E-05	1.2757E-06	6.7121E-05
469534.78	3764940.05	6.5505E-05	1.2711E-06	6.6776E-05
469267.26	3764925.94	6.6495E-05	1.2996E-06	6.7794E-05
469433.06	3764925.61	6.5676E-05	1.2735E-06	6.6949E-05
469414.38	3764922.02	6.5532E-05	1.2729E-06	6.6805E-05
468831.60	3765103.30	6.7936E-05	1.4605E-06	6.9396E-05
469561.77	3764940.11	6.4841E-05	1.2624E-06	6.6103E-05
469247.91	3764922.22	6.5899E-05	1.2933E-06	6.7192E-05
469395.69	3764918.42	6.5280E-05	1.2699E-06	6.6550E-05
468851.99	3765081.80	6.7762E-05	1.4491E-06	6.9211E-05
469377.01	3764914.82	6.4999E-05	1.2667E-06	6.6266E-05
469521.60	3764926.53	6.4248E-05	1.2528E-06	6.5500E-05
469358.33	3764911.23	6.4709E-05	1.2635E-06	6.5973E-05
469483.98	3764919.29	6.4127E-05	1.2501E-06	6.5377E-05
469339.65	3764907.63	6.4395E-05	1.2602E-06	6.5655E-05
469548.59	3764926.59	6.3590E-05	1.2432E-06	6.4834E-05
469446.36	3764912.05	6.3891E-05	1.2469E-06	6.5138E-05
468836.67	3765082.20	6.6338E-05	1.4253E-06	6.7763E-05
469320.96	3764904.04	6.3991E-05	1.2555E-06	6.5247E-05
468788.31	3765117.47	6.5173E-05	1.4196E-06	6.6592E-05
469408.73	3764904.81	6.3553E-05	1.2438E-06	6.4797E-05
469389.92	3764901.19	6.3279E-05	1.2404E-06	6.4519E-05
469302.28	3764900.44	6.3555E-05	1.2506E-06	6.4806E-05
468820.95	3765082.66	6.4995E-05	1.4031E-06	6.6398E-05
468846.93	3765061.03	6.5265E-05	1.3992E-06	6.6665E-05
469535.41	3764913.07	6.2426E-05	1.2259E-06	6.3652E-05
469371.11	3764897.57	6.3003E-05	1.2371E-06	6.4240E-05
469497.55	3764905.78	6.2314E-05	1.2227E-06	6.3536E-05
469283.60	3764896.84	6.3134E-05	1.2460E-06	6.4380E-05
469352.30	3764893.95	6.2740E-05	1.2343E-06	6.3975E-05
469459.69	3764898.50	6.2144E-05	1.2202E-06	6.3364E-05
469333.49	3764890.33	6.2434E-05	1.2306E-06	6.3665E-05
469440.77	3764894.85	6.2026E-05	1.2191E-06	6.3245E-05
469264.91	3764893.25	6.2650E-05	1.2405E-06	6.3890E-05
468831.60	3765061.43	6.3952E-05	1.3775E-06	6.5329E-05
469421.84	3764891.21	6.1930E-05	1.2192E-06	6.3149E-05
469314.68	3764886.71	6.2013E-05	1.2258E-06	6.3239E-05
469246.23	3764889.65	6.2155E-05	1.2350E-06	6.3390E-05
469402.91	3764887.57	6.1656E-05	1.2156E-06	6.2872E-05
469383.98	3764883.92	6.1408E-05	1.2125E-06	6.2621E-05
469295.87	3764883.08	6.1627E-05	1.2215E-06	6.2849E-05
468815.78	3765062.85	6.2796E-05	1.3590E-06	6.4155E-05
469365.05	3764880.28	6.1137E-05	1.2092E-06	6.2346E-05
469277.05	3764879.46	6.1213E-05	1.2168E-06	6.2430E-05
469346.12	3764876.64	6.0905E-05	1.2068E-06	6.2111E-05
469327.19	3764872.99	6.0594E-05	1.2032E-06	6.1797E-05
469258.24	3764875.84	6.0726E-05	1.2110E-06	6.1937E-05
469308.26	3764869.35	6.0175E-05	1.1979E-06	6.1373E-05
469289.33	3764865.71	5.9796E-05	1.1935E-06	6.0990E-05
468776.66	3765068.32	6.0353E-05	1.3212E-06	6.1675E-05
469270.41	3764862.06	5.9381E-05	1.1886E-06	6.0569E-05
469251.48	3764858.42	5.8916E-05	1.1829E-06	6.0099E-05

CONCUNIT ug/m^3

DEPUNIT g/m^2

Health Risk Assessment

2025 Operations

Barton Road Logistics Center Project

Diesel Vehicle Emissions

Facility Operations

24 hrs/day, 52 weeks/year

Roadway Links Modeled

Link	Truck Type	Average Speed (mph)	Emission Factor (g/mi)	Trips per Daily (in and out)	Link Length (m)	Link Length (mi)	Ave Emissions Over Link (g/day)	Ave Emissions (lbs/day)	Average Emissions (g/sec)	Total Emissions for all Vehicles (g/sec)
SLINE9	LHDT1	10	0.042	3	1024.9	0.64	7.916E-02	1.74E-04	9.162E-07	
	LHDT2	10	0.043	1	1024.9	0.64	3.798E-02	8.36E-05	4.395E-07	
	MHDT	10	0.005	9	1024.9	0.64	2.850E-02	6.28E-05	3.299E-07	
	HHDT	10	0.012	34	1024.9	0.64	2.704E-01	5.96E-04	3.130E-06	4.82E-06
SLINE10	LHDT1	10	0.042	3	214.1	0.13	1.65E-02	3.64E-05	1.91E-07	
	LHDT2	10	0.043	1	214.1	0.13	7.93E-03	1.75E-05	9.18E-08	
	MHDT	10	0.005	9	214.1	0.13	5.95E-03	1.31E-05	6.89E-08	
	HHDT	10	0.012	34	214.1	0.13	5.65E-02	1.24E-04	6.54E-07	1.01E-06
SLINE11	LHDT1	10	0.042	6	400.7	0.25	6.19E-02	1.36E-04	7.16E-07	
	LHDT2	10	0.043	3	400.7	0.25	2.97E-02	6.54E-05	3.44E-07	
	MHDT	10	0.005	18	400.7	0.25	2.23E-02	4.91E-05	2.58E-07	
	HHDT	10	0.012	68	400.7	0.25	2.11E-01	4.66E-04	2.45E-06	3.77E-06
SLINE12	LDA	15	0.008	4	1198.1	0.74	2.05E-02	4.51E-05	2.37E-07	
	LDT1	15	0.257	0	1198.1	0.74	2.12E-03	4.67E-06	2.45E-08	
	LDT2	15	0.008	1	1198.1	0.74	4.77E-03	1.05E-05	5.53E-08	
	MDV	15	0.007	2	1198.1	0.74	9.91E-03	2.18E-05	1.15E-07	4.31E-07
SLINE13	LDA	15	0.008	4	1207.9	0.75	2.064E-02	4.55E-05	2.389E-07	
	LDT1	15	0.257	0	1207.9	0.75	2.138E-03	4.71E-06	2.475E-08	
	LDT2	15	0.008	1	1207.9	0.75	4.813E-03	1.06E-05	5.571E-08	
	MDV	15	0.007	2	1207.9	0.75	9.990E-03	2.20E-05	1.156E-07	4.35E-07

Diesel Vehicle Emissions

Diesel truck Idling Emissions

Onsite Vehicle Travel Segments	Truck Type	DPM Emission Factor g/vehicle/ day	Number Idling Vehicle Trips/day	Emissions (g/day)	Emissions (lb/day)	Average Emissions (g/sec)	Total Emissions for all Vehicles (g/sec)
SLINE6	LHDT1	0.027	3.0	8.15E-02	1.81E-03	9.43E-07	1.49E-05
	LHDT2	0.028	1.4	3.82E-02	8.42E-05	4.42E-07	
	MHDT	0.003	9.1	2.72E-02	6.00E-05	3.15E-07	
	HHDT	0.033	34.0	1.14E+00	2.51E-03	1.32E-05	
SLINE7	LHDT1	0.027	3.0	8.15E-02	1.79E-04	9.43E-07	1.49E-05
	LHDT2	0.028	1.4	3.82E-02	8.42E-05	4.42E-07	
	MHDT	0.003	9.1	2.72E-02	6.00E-05	3.15E-07	
	HHDT	0.033	34.0	1.14E+00	2.51E-03	1.32E-05	
SLINE8	LHDT1	0.027	6.0	1.63E-01	3.59E-04	1.89E-06	2.97E-05
	LHDT2	0.028	2.8	7.64E-02	1.68E-04	8.84E-07	
	MHDT	0.003	18.1	5.45E-02	1.20E-04	6.31E-07	
	HHDT	0.033	68.0	2.28E+00	5.01E-03	2.63E-05	

Barton Road Logistics Center Project

Project Operations

24 hours/day

Offsite DSL Truck Roadway Emissions

Segment ID	Description	% total Trips
SLINE1	1. Off-site Road 1 – To/from East/West	33.3%
SLINE2	2. Off-site Road 2 – To Project from South	16.7%
SLINE3	3. Off-site Road 3 – From Project towards North	16.7%
SLINE4	4. Off-site Road 4 – To Project from North	16.7%
SLINE5	5. Off-site Road 5 – From Project towards South	16.7%
Total		100.0%

Segment ID:

SLINE1

Travel Distance:

315.8 meters

Operations

24 hours/day

	Daily Trips (trips/day)	Emission Factor (g/mi)	Travel Distance (mi)	Emissions (g/day)	Emissions (g/sec)
Vehicle Class					
LHDT1-DSL	4	0.002	0.20	0.00	2.10E-08
LHDT2-DSL	2	0.002	0.20	0.00	7.69E-09
MHDT-DSL	12	0.002	0.20	0.00	4.27E-08
HHDT-DSL	45	0.003	0.20	0.02	2.65E-07
Total	63				3.36E-07

Segment ID:

SLINE2

Travel Distance:

864.8 meters

Operations

24 hours/day

	Daily Trips (trips/day)	Emission Factor (g/mi)	Travel Distance (mi)	Emissions (g/day)	Emissions (g/sec)
Vehicle Class					
LHDT1-DSL	2	0.002	0.54	0.00	2.87E-08
LHDT2-DSL	1	0.002	0.54	0.00	1.05E-08
MHDT-DSL	6	0.002	0.54	0.01	5.85E-08
HHDT-DSL	23	0.003	0.54	0.03	3.63E-07
Total	32				4.60E-07

Segment ID:

SLINE3

Travel Distance:

895.6 meters

Operations

24 hours/day

	Daily Trips (trips/day)	Emission Factor (g/mi)	Travel Distance (mi)	Emissions (g/day)	Emissions (g/sec)
Vehicle Class					
LHDT1-DSL	24	0.002	0.56	0.03	3.59E-07
LHDT2-DSL	1	0.002	0.56	0.00	1.09E-08
MHDT-DSL	6	0.002	0.56	0.01	6.05E-08
HHDT-DSL	23	0.003	0.56	0.03	3.76E-07
Total	32				8.06E-07

Segment ID:

SLINE4

Travel Distance:

967.4 meters

Operations

24 hours/day

	Daily Trips (trips/day)	Emission Factor (g/mi)	Travel Distance (mi)	Emissions (g/day)	Emissions (g/sec)
Vehicle Class					
LHDT1-DSL	24	0.002	0.56	0.03	3.59E-07
LHDT2-DSL	1	0.002	0.56	0.00	1.09E-08
MHDT-DSL	6	0.002	0.56	0.01	6.05E-08
HHDT-DSL	23	0.003	0.56	0.03	3.76E-07
Total	32				8.06E-07

Segment ID: SLINE5

Travel Distance: 863.7 meters

Operations 24 hours/day

Vehicle Class	Daily Trips (trips/day)	Emission Factor (g/mi)	Travel Distance (mi)	Emissions (g/day)	Emissions (g/sec)
LHDT1-DSL	24	0.002	0.56	0.03	3.59E-07
LHDT2-DSL	1	0.002	0.56	0.00	1.09E-08
MHDT-DSL	6	0.002	0.56	0.01	6.05E-08
HHDT-DSL	23	0.003	0.56	0.03	3.76E-07
Total	32				8.06E-07

Offsite Passenger Vehicle Roadway Segments

Segment ID	Description	% Total Trips
Passenger Vehicles		
SLINE1	1.Off-site Road 1 – To/from East/West	33.3%
SLINE2	2.Off-site Road 2 – To Project from South	16.7%
SLINE3	3.Off-site Road 3 – From Project towards North	16.7%
SLINE4	4.Off-site Road 4 – To Project from North	16.7%
SLINE5	5.Off-site Road 5 – From Project towards South	16.7%
Total		100.0%

Offsite Auto Vehicle Roadway Segment Trips

Segment	LDA-DSL (trips/day)	LDT1-DSL (trips/day)	LDT2-DSL (trips/day)	MDT-DSL (trips/day)
Total Diesel Passenger Vehicles	7.2	0.0	1.6	3.7
SLINE1	2.4	0.0	0.5	1.2
SLINE2	1.2	0.0	0.3	0.6
SLINE3	1.2	0.0	0.3	0.6
SLINE4	1.2	0.0	0.3	0.6
SLINE5	1.2	0.0	0.3	0.6

Offsite Segment ID SLINE1 Emission Factor @ 35 mph for LDA, LDT, MDT

	Segment Length (m)	Segment Length (mi)	Emission Factor (g/mi)	Emissions (g/day)	Operations (hours/day)	Emissions (g/sec)
LDA-DSL	315.8	0.20	0.001	6.55E-04	24	7.58E-09
LDT1-DSL	315.8	0.20	0.002	3.11E-06	24	3.60E-11
LDT2-DSL	315.8	0.20	0.001	1.56E-04	24	1.80E-09
MDT-DSL	315.8	0.20	0.001	2.37E-04	24	2.74E-09
Total						1.22E-08

Offsite Segment ID SLINE2 Emission Factor @ 35 mph for LDA, LDT, MDT

	Segment Length (m)	Segment Length (mi)	Emission Factor (g/mi)	Emissions (g/day)	Operations (hours/day)	Emissions (g/sec)
LDA-DSL	864.8	0.54	0.001	8.97E-04	24	1.04E-08
LDT1-DSL	864.8	0.54	0.002	4.26E-06	24	4.93E-11
LDT2-DSL	864.8	0.54	0.001	2.13E-04	24	2.47E-09
MDT-DSL	864.8	0.54	0.001	3.24E-04	24	3.75E-09
Total						1.66E-08

Offsite Segment ID

SLINE3

Emission Factor @ 35 mph for LDA, LDT, MDT

	Segment Length (m)	Segment Length (mi)	Emission Factor (g/mi)	Emissions (g/day)	Operations (hours/day)	Emissions (g/sec)
LDA-DSL	895.6	0.56	0.001	9.29E-04	24	1.07E-08
LDT1-DSL	895.6	0.56	0.002	4.41E-06	24	5.10E-11
LDT2-DSL	895.6	0.56	0.001	2.21E-04	24	2.56E-09
MDT-DSL	895.6	0.56	0.001	3.36E-04	24	3.88E-09

Total**1.72E-08****Offsite Segment ID**

SLINE4

Emission Factor @ 35 mph for LDA, LDT, MDT

	Segment Length (m)	Segment Length (mi)	Emission Factor (g/mi)	Emissions (g/day)	Operations (hours/day)	Emissions (g/sec)
LDA-DSL	967.4	0.60	0.001	1.00E-03	24	1.16E-08
LDT1-DSL	967.4	0.60	0.002	4.76E-06	24	5.51E-11
LDT2-DSL	967.4	0.60	0.001	2.39E-04	24	2.76E-09
MDT-DSL	967.4	0.60	0.001	3.62E-04	24	4.20E-09

Total**1.86E-08****Offsite Segment ID**

SLINE5

Emission Factor @ 35 mph for LDA, LDT, MDT

	Segment Length (m)	Segment Length (mi)	Emission Factor (g/mi)	Emissions (g/day)	Operations (hours/day)	Emissions (g/sec)
LDA-DSL	863.7	0.54	0.001	8.96E-04	24	1.04E-08
LDT1-DSL	863.7	0.54	0.002	4.25E-06	24	4.92E-11
LDT2-DSL	863.7	0.54	0.001	2.13E-04	24	2.47E-09
MDT-DSL	863.7	0.54	0.001	3.24E-04	24	3.75E-09

Total**1.66E-08**

DPM

2025

EMFAC2017 Running Diesel Exhaust Emissions
in units of grams/mile

		Emission Factor (g/mi)			
		10 mph	15 mph	25 mph	35 mph
LDA	DSL	0.0091	0.0076	0.0052	0.0041
LDT1	DSL	0.3489	0.2572	0.1573	0.1159
LDT2	DSL	0.0093	0.0079	0.0057	0.0045
MDV	DSL	0.0084	0.0073	0.0051	0.0041
LHDT1	DSL	0.0418	0.0325	0.0214	0.0163
LHDT2	DSL	0.0431	0.0343	0.0230	0.0177
MHDT	DSL	0.0049	0.0038	0.0030	0.0037
HHDT	DSL	0.0125	0.0096	0.0070	0.0089

EMFAC2017 Idling Emissions
in units of g/vehicle/day

Vehicle Class	Fuel	Vehicle Speed (mph)	DPM (g/vehicle/day)
LHDT1	DSL	Idle	0.02735612
LHDT2	DSL	Idle	0.02762812
MHDT	DSL	Idle	0.00300692
HHDT	DSL	Idle	0.03347449

Unmitigated
Diesel Truck Emissions

2025

Annual Average Offsite Total DPM Emission Rate - Segment 1 (grams/sec):	3.36E-07
Annual Average Offsite Total DPM Emission Rate - Segment 2 (grams/sec):	4.60E-07
Annual Average Offsite Total DPM Emission Rate - Segment 3 (grams/sec):	8.06E-07
Annual Average Offsite Total DPM Emission Rate - Segment 4 (grams/sec):	8.06E-07
Annual Average Offsite Total DPM Emission Rate - Segment 5 (grams/sec):	8.06E-07
Annual Average Offsite Total DPM Emission Rate - Segment 6 (grams/sec):	1.49E-05
Annual Average Offsite Total DPM Emission Rate - Segment 7 (grams/sec):	1.49E-05
Annual Average Offsite Total DPM Emission Rate - Segment 8 (grams/sec):	2.97E-05
Annual Average Offsite Total DPM Emission Rate - Segment 9 (grams/sec):	4.82E-06
Annual Average Offsite Total DPM Emission Rate - Segment 10 (grams/sec):	1.01E-06
Annual Average Offsite Total DPM Emission Rate - Segment 11 (grams/sec):	3.77E-06

	X	Y
Construction MIR	469594.13	3766418.72
Operations MIR	469644.93	3766144.59

		SLINE1 Onsite Travel 1 Unit Emissions	SLINE2 Onsite Travel 2 Unit Emissions	SLINE3 Onsite Idle Unit Emissions	SLINE4 Offsite Unit Emissions	SLINE5 Offsite Unit Emissions	SLINE6 Offsite Unit Emissions	SLINE7 Offsite Unit Emissions	SLINE8 Offsite Unit Emissions	SLINE9 Offsite Unit Emissions	SLINE10 Offsite Unit Emissions	SLINE11 Offsite Unit Emissions
X	Y	Trucks Segment 1	Trucks Segment 2	Trucks Segment 3	Trucks Segment 4	Trucks Segment 5	Trucks Segment 6	Trucks Segment 7	Trucks Segment 8	Trucks Segment 9	Trucks Segment 10	Trucks Segment 11
469644.93	3766144.59	18.7351	3.4011	6.3014	5.7946	3.4689	14.2261	62.7376	5.6062	33.4656	19.2217	6.8558
469594.13	3766418.72	4.3860	1.5509	9.3105	8.4786	1.5949	17.9298	18.0217	2.0922	41.1706	5.1213	2.3656

CONCUNIT ug/m^3
DEPUNIT g/m^2

SLINE1 Annual DPM Exhaust w/Actual Emissions (ug/m3)	SLINE2 Annual DPM Exhaust w/Actual Emissions (ug/m3)	SLINE3 Annual DPM Exhaust w/Actual Emissions (ug/m3)	SLINE4 Annual DPM Exhaust w/Actual Emissions (ug/m3)	SLINE5 Annual DPM Exhaust w/Actual Emissions (ug/m3)	SLINE6 Annual DPM Exhaust w/Actual Emissions (ug/m3)	SLINE7 Annual DPM Exhaust w/Actual Emissions (ug/m3)	SLINE8 Annual DPM Exhaust w/Actual Emissions (ug/m3)	SLINE9 Annual DPM Exhaust w/Actual Emissions (ug/m3)	SLINE10 Annual DPM Exhaust w/Actual Emissions (ug/m3)	SLINE11 Annual DPM Exhaust w/Actual Emissions (ug/m3)	Total DPM (ug/m3)
6.30E-06	1.57E-06	5.08E-06	4.67E-06	2.80E-06	2.11E-04	9.33E-04	1.67E-04	1.61E-04	1.93E-05	2.58E-05	1.538E-03
1.47E-06	7.14E-07	7.51E-06	6.84E-06	1.29E-06	2.67E-04	2.68E-04	6.22E-05	1.98E-04	5.15E-06	8.91E-06	8.268E-04

**Unmitigated
Diesel Passenger Car Emissions**

2025

Annual Average Offsite Total DPM Emission Rate - Segment 1 (grams/sec):	1.22E-08
Annual Average Offsite Total DPM Emission Rate - Segment 2 (grams/sec):	1.66E-08
Annual Average Offsite Total DPM Emission Rate - Segment 3 (grams/sec):	1.72E-08
Annual Average Offsite Total DPM Emission Rate - Segment 4 (grams/sec):	1.86E-08
Annual Average Offsite Total DPM Emission Rate - Segment 5 (grams/sec):	1.66E-08
Annual Average Offsite Total DPM Emission Rate - Segment 12 (grams/sec):	4.31E-07
Annual Average Offsite Total DPM Emission Rate - Segment 13 (grams/sec):	4.35E-07

		X	Y							
Construction MIR		469594.13	3766418.72							
Operations MIR		469644.93	3766144.59							
				SLINE1	SLINE2	SLINE3	SLINE4	SLINE5	SLINE12	SLINE13
				Onsite Travel 1 Unit	Onsite Travel 2 Unit	Onsite Idle Unit	Offsite Unit	Offsite Unit	Offsite Unit	Offsite Unit
				Emissions	Emissions	Emissions	Emissions	Emissions	Emissions	Emissions
X	Y			Trucks Segment 1	Trucks Segment 2	Trucks Segment 3	Trucks Segment 4	Trucks Segment 5	Trucks Segment 6	Trucks Segment 7
469644.93	3766144.59			18.7351	3.4011	6.3014	5.7946	3.4689	14.2261	62.7370
469594.13	3766418.72			4.3860	1.5509	9.3105	8.4786	1.5949	17.9298	18.0217
CONCUNIT ug/m^3										
DEPUNIT g/m^2										

SLINE1	SLINE2	SLINE3	SLINE4	SLINE5	SLINE6	SLINE7	Total
Annual DPM Exhaust	Annual DPM Exhaust	Annual DPM Exhaust	Annual DPM Exhaust	Annual DPM Exhaust	Annual DPM Exhaust	Annual DPM Exhaust	DPM
w/Actual Emissions	w/Actual Emissions	w/Actual Emissions	w/Actual Emissions	w/Actual Emissions	w/Actual Emissions	w/Actual Emissions	(ug/m3)
(ug/m3)	(ug/m3)	(ug/m3)	(ug/m3)	(ug/m3)	(ug/m3)	(ug/m3)	
2.28E-07	5.66E-08	1.09E-07	1.08E-07	5.77E-08	6.14E-06	2.73E-05	3.399E-05
5.33E-08	2.58E-08	1.61E-07	1.58E-07	2.65E-08	7.74E-06	7.84E-06	1.600E-05

Unmitigated
Diesel Vehicle Concentrations

2025

		X	Y	DPM (ug/m3)
Construction MIR		469594.13	3766418.72	8.4282E-04
Operations MIR		469644.93	3766144.59	1.5716E-03
		Trucks DPM (ug/m3)	Cars DPM (ug/m3)	Total DPM (ug/m3)
X	Y			
469644.93	3766144.59	1.5376E-03	3.3985E-05	1.5716E-03
469594.13	3766418.72	8.2682E-04	1.5999E-05	8.4282E-04
CONCUNIT ug/m^3				
DEPUNIT g/m^2				

Health Risk Assessment

2030 Operations

Barton Road Logistics Center Project

Diesel Vehicle Emissions

Facility Operations

24 hrs/day, 52 weeks/year

Roadway Links Modeled

Link	Truck Type	Average Speed (mph)	Emission Factor (g/mi)	Trips per Daily (in and out)	Link Length (m)	Link Length (mi)	Ave Emissions Over Link (g/day)	Ave Emissions (lbs/day)	Average Emissions (g/sec)	Total Emissions for all Vehicles (g/sec)
SLINE9	LHDT1	10	0.028	3	1024.9	0.64	5.312E-02	1.17E-04	6.148E-07	4.19E-06
	LHDT2	10	0.036	1	1024.9	0.64	3.153E-02	6.95E-05	3.650E-07	
	MHDT	10	0.005	9	1024.9	0.64	2.674E-02	5.89E-05	3.094E-07	
	HHDT	10	0.012	34	1024.9	0.64	2.504E-01	5.52E-04	2.898E-06	
SLINE10	LHDT1	10	0.028	3	214.1	0.13	1.11E-02	2.44E-05	1.28E-07	8.75E-07
	LHDT2	10	0.036	1	214.1	0.13	6.59E-03	1.45E-05	7.62E-08	
	MHDT	10	0.005	9	214.1	0.13	5.59E-03	1.23E-05	6.46E-08	
	HHDT	10	0.012	34	214.1	0.13	5.23E-02	1.15E-04	6.05E-07	
SLINE11	LHDT1	10	0.028	6	400.7	0.25	4.15E-02	9.15E-05	4.81E-07	3.27E-06
	LHDT2	10	0.036	3	400.7	0.25	2.47E-02	5.43E-05	2.85E-07	
	MHDT	10	0.005	18	400.7	0.25	2.09E-02	4.60E-05	2.42E-07	
	HHDT	10	0.012	68	400.7	0.25	1.96E-01	4.31E-04	2.27E-06	
SLINE12	LDA	15	0.003	4	1198.1	0.74	8.92E-03	1.96E-05	1.03E-07	2.21E-07
	LDT1	15	0.043	0	1198.1	0.74	3.56E-04	7.84E-07	4.12E-09	
	LDT2	15	0.007	1	1198.1	0.74	4.50E-03	9.91E-06	5.21E-08	
	MDV	15	0.004	2	1198.1	0.74	5.32E-03	1.17E-05	6.16E-08	
SLINE13	LDA	15	0.003	4	1207.9	0.75	8.993E-03	1.98E-05	1.041E-07	2.23E-07
	LDT1	15	0.043	0	1207.9	0.75	3.587E-04	7.90E-07	4.152E-09	
	LDT2	15	0.007	1	1207.9	0.75	4.536E-03	9.99E-06	5.250E-08	
	MDV	15	0.004	2	1207.9	0.75	5.362E-03	1.18E-05	6.207E-08	

Diesel Vehicle Emissions

Diesel truck Idling Emissions

Onsite Vehicle Travel Segments	Truck Type	DPM Emission Factor g/vehicle/ day	Number Idling Vehicle Trips/day	Emissions (g/day)	Emissions (lb/day)	Average Emissions (g/sec)	Total Emissions for all Vehicles (g/sec)
SLINE6	LHDT1	0.027	3.0	8.11E-02	1.80E-03	9.38E-07	1.39E-05
	LHDT2	0.028	1.4	3.84E-02	8.46E-05	4.45E-07	
	MHDT	0.002	9.1	1.41E-02	3.11E-05	1.64E-07	
	HHDT	0.031	34.0	1.07E+00	2.35E-03	1.24E-05	
SLINE7	LHDT1	0.027	3.0	8.11E-02	1.79E-04	9.38E-07	1.39E-05
	LHDT2	0.028	1.4	3.84E-02	8.46E-05	4.45E-07	
	MHDT	0.002	9.1	1.41E-02	3.11E-05	1.64E-07	
	HHDT	0.031	34.0	1.07E+00	2.35E-03	1.24E-05	
SLINE8	LHDT1	0.027	6.0	1.62E-01	3.57E-04	1.88E-06	2.78E-05
	LHDT2	0.028	2.8	7.68E-02	1.69E-04	8.89E-07	
	MHDT	0.002	18.1	2.83E-02	6.23E-05	3.27E-07	
	HHDT	0.031	68.0	2.14E+00	4.71E-03	2.47E-05	

Barton Road Logistics Center Project

Project Operations

24 hours/day

Offsite DSL Truck Roadway Emissions

Segment ID	Description	% total Trips
SLINE1	1. Off-site Road 1 – To/from East/West	33.3%
SLINE2	2. Off-site Road 2 – To Project from South	16.7%
SLINE3	3. Off-site Road 3 – From Project towards North	16.7%
SLINE4	4. Off-site Road 4 – To Project from North	16.7%
SLINE5	5. Off-site Road 5 – From Project towards South	16.7%
Total		100.0%

Segment ID:

SLINE1

Travel Distance:

315.8 meters

Operations

24 hours/day

	Daily Trips (trips/day)	Emission Factor (g/mi)	Travel Distance (mi)	Emissions (g/day)	Emissions (g/sec)
Vehicle Class					
LHDT1-DSL	4	0.002	0.20	0.00	2.10E-08
LHDT2-DSL	2	0.002	0.20	0.00	7.69E-09
MHDT-DSL	12	0.002	0.20	0.00	4.27E-08
HHDT-DSL	45	0.003	0.20	0.02	2.65E-07
Total	63				3.36E-07

Segment ID:

SLINE2

Travel Distance:

864.8 meters

Operations

24 hours/day

	Daily Trips (trips/day)	Emission Factor (g/mi)	Travel Distance (mi)	Emissions (g/day)	Emissions (g/sec)
Vehicle Class					
LHDT1-DSL	2	0.002	0.54	0.00	2.87E-08
LHDT2-DSL	1	0.002	0.54	0.00	1.05E-08
MHDT-DSL	6	0.002	0.54	0.01	5.85E-08
HHDT-DSL	23	0.003	0.54	0.03	3.63E-07
Total	32				4.60E-07

Segment ID:

SLINE3

Travel Distance:

895.6 meters

Operations

24 hours/day

	Daily Trips (trips/day)	Emission Factor (g/mi)	Travel Distance (mi)	Emissions (g/day)	Emissions (g/sec)
Vehicle Class					
LHDT1-DSL	24	0.002	0.56	0.03	3.59E-07
LHDT2-DSL	1	0.002	0.56	0.00	1.09E-08
MHDT-DSL	6	0.002	0.56	0.01	6.05E-08
HHDT-DSL	23	0.003	0.56	0.03	3.76E-07
Total	32				8.06E-07

Segment ID:

SLINE4

Travel Distance:

967.4 meters

Operations

24 hours/day

	Daily Trips (trips/day)	Emission Factor (g/mi)	Travel Distance (mi)	Emissions (g/day)	Emissions (g/sec)
Vehicle Class					
LHDT1-DSL	24	0.002	0.56	0.03	3.59E-07
LHDT2-DSL	1	0.002	0.56	0.00	1.09E-08
MHDT-DSL	6	0.002	0.56	0.01	6.05E-08
HHDT-DSL	23	0.003	0.56	0.03	3.76E-07
Total	32				8.06E-07

Segment ID: SLINE5

Travel Distance: 863.7 meters

Operations 24 hours/day

Vehicle Class	Daily Trips (trips/day)	Emission Factor (g/mi)	Travel Distance (mi)	Emissions (g/day)	Emissions (g/sec)
LHDT1-DSL	24	0.002	0.56	0.03	3.59E-07
LHDT2-DSL	1	0.002	0.56	0.00	1.09E-08
MHDT-DSL	6	0.002	0.56	0.01	6.05E-08
HHDT-DSL	23	0.003	0.56	0.03	3.76E-07
Total	32				8.06E-07

Offsite Passenger Vehicle Roadway Segments

Segment ID	Description	% Total Trips
Passenger Vehicles		
SLINE1	1.Off-site Road 1 – To/from East/West	33.3%
SLINE2	2.Off-site Road 2 – To Project from South	16.7%
SLINE3	3.Off-site Road 3 – From Project towards North	16.7%
SLINE4	4.Off-site Road 4 – To Project from North	16.7%
SLINE5	5.Off-site Road 5 – From Project towards South	16.7%
Total		100.0%

Offsite Auto Vehicle Roadway Segment Trips

Segment	LDA-DSL (trips/day)	LDT1-DSL (trips/day)	LDT2-DSL (trips/day)	MDT-DSL (trips/day)
Total Diesel Passenger Vehicles	7.2	0.0	1.6	3.7
SLINE1	2.4	0.0	0.5	1.2
SLINE2	1.2	0.0	0.3	0.6
SLINE3	1.2	0.0	0.3	0.6
SLINE4	1.2	0.0	0.3	0.6
SLINE5	1.2	0.0	0.3	0.6

Offsite Segment ID SLINE1 Emission Factor @ 35 mph for LDA, LDT, MDT

	Segment Length (m)	Segment Length (mi)	Emission Factor (g/mi)	Emissions (g/day)	Operations (hours/day)	Emissions (g/sec)
LDA-DSL	315.8	0.20	0.001	6.55E-04	24	7.58E-09
LDT1-DSL	315.8	0.20	0.002	3.11E-06	24	3.60E-11
LDT2-DSL	315.8	0.20	0.001	1.56E-04	24	1.80E-09
MDT-DSL	315.8	0.20	0.001	2.37E-04	24	2.74E-09
Total						1.22E-08

Offsite Segment ID SLINE2 Emission Factor @ 35 mph for LDA, LDT, MDT

	Segment Length (m)	Segment Length (mi)	Emission Factor (g/mi)	Emissions (g/day)	Operations (hours/day)	Emissions (g/sec)
LDA-DSL	864.8	0.54	0.001	8.97E-04	24	1.04E-08
LDT1-DSL	864.8	0.54	0.002	4.26E-06	24	4.93E-11
LDT2-DSL	864.8	0.54	0.001	2.13E-04	24	2.47E-09
MDT-DSL	864.8	0.54	0.001	3.24E-04	24	3.75E-09
Total						1.66E-08

Offsite Segment ID

SLINE3

Emission Factor @ 35 mph for LDA, LDT, MDT

	Segment Length (m)	Segment Length (mi)	Emission Factor (g/mi)	Emissions (g/day)	Operations (hours/day)	Emissions (g/sec)
LDA-DSL	895.6	0.56	0.001	9.29E-04	24	1.07E-08
LDT1-DSL	895.6	0.56	0.002	4.41E-06	24	5.10E-11
LDT2-DSL	895.6	0.56	0.001	2.21E-04	24	2.56E-09
MDT-DSL	895.6	0.56	0.001	3.36E-04	24	3.88E-09

Total**1.72E-08****Offsite Segment ID**

SLINE4

Emission Factor @ 35 mph for LDA, LDT, MDT

	Segment Length (m)	Segment Length (mi)	Emission Factor (g/mi)	Emissions (g/day)	Operations (hours/day)	Emissions (g/sec)
LDA-DSL	967.4	0.60	0.001	1.00E-03	24	1.16E-08
LDT1-DSL	967.4	0.60	0.002	4.76E-06	24	5.51E-11
LDT2-DSL	967.4	0.60	0.001	2.39E-04	24	2.76E-09
MDT-DSL	967.4	0.60	0.001	3.62E-04	24	4.20E-09

Total**1.86E-08****Offsite Segment ID**

SLINE5

Emission Factor @ 35 mph for LDA, LDT, MDT

	Segment Length (m)	Segment Length (mi)	Emission Factor (g/mi)	Emissions (g/day)	Operations (hours/day)	Emissions (g/sec)
LDA-DSL	863.7	0.54	0.001	8.96E-04	24	1.04E-08
LDT1-DSL	863.7	0.54	0.002	4.25E-06	24	4.92E-11
LDT2-DSL	863.7	0.54	0.001	2.13E-04	24	2.47E-09
MDT-DSL	863.7	0.54	0.001	3.24E-04	24	3.75E-09

Total**1.66E-08**

DPM

2030

EMFAC2017 Running Diesel Exhaust Emissions
in units of grams/mile

		Emission Factor (g/mi)			
		10 mph	15 mph	25 mph	35 mph
LDA	DSL	0.0038	0.0033	0.0024	0.0019
LDT1	DSL	0.0608	0.0432	0.0266	0.0189
LDT2	DSL	0.0086	0.0075	0.0054	0.0044
MDV	DSL	0.0044	0.0039	0.0028	0.0023
LHDT1	DSL	0.0280	0.0225	0.0153	0.0119
LHDT2	DSL	0.0358	0.0294	0.0204	0.0159
MHDT	DSL	0.0046	0.0036	0.0029	0.0037
HHDT	DSL	0.0116	0.0092	0.0066	0.0085

EMFAC2017 Idling Emissions
in units of g/vehicle/day

Vehicle Class	Fuel	Vehicle Speed (mph)	DPM (g/vehicle/day)
LHDT1	DSL	Idle	0.02722022
LHDT2	DSL	Idle	0.0277707
MHDT	DSL	Idle	0.00155981
HHDT	DSL	Idle	0.03144741

Unmitigated
Diesel Truck Emissions

2030

Annual Average Offsite Total DPM Emission Rate - Segment 1 (grams/sec):	3.36E-07
Annual Average Offsite Total DPM Emission Rate - Segment 2 (grams/sec):	4.60E-07
Annual Average Offsite Total DPM Emission Rate - Segment 3 (grams/sec):	8.06E-07
Annual Average Offsite Total DPM Emission Rate - Segment 4 (grams/sec):	8.06E-07
Annual Average Offsite Total DPM Emission Rate - Segment 5 (grams/sec):	8.06E-07
Annual Average Offsite Total DPM Emission Rate - Segment 6 (grams/sec):	1.39E-05
Annual Average Offsite Total DPM Emission Rate - Segment 7 (grams/sec):	1.39E-05
Annual Average Offsite Total DPM Emission Rate - Segment 8 (grams/sec):	2.78E-05
Annual Average Offsite Total DPM Emission Rate - Segment 9 (grams/sec):	4.19E-06
Annual Average Offsite Total DPM Emission Rate - Segment 10 (grams/sec):	8.75E-07
Annual Average Offsite Total DPM Emission Rate - Segment 11 (grams/sec):	3.27E-06

		X	Y											
Construction MIR		469594.13	3766418.72											
Operations MIR		469644.93	3766144.59											
				SLINE1	SLINE2	SLINE3	SLINE4	SLINE5	SLINE6	SLINE7	SLINE8	SLINE9	SLINE10	SLINE11
X	Y	Onsite Travel 1 Unit Emissions	Onsite Travel 2 Unit Emissions	Onsite Idle Unit Emissions	Offsite Unit Emissions	Offsite Unit Emissions	Offsite Unit Emissions	Offsite Unit Emissions	Offsite Unit Emissions	Offsite Unit Emissions	Offsite Unit Emissions	Offsite Unit Emissions	Offsite Unit Emissions	Offsite Unit Emissions
		Trucks Segment 1	Trucks Segment 2	Trucks Segment 3	Trucks Segment 4	Trucks Segment 5	Trucks Segment 6	Trucks Segment 7	Trucks Segment 8	Trucks Segment 9	Trucks Segment 10	Trucks Segment 11		
469644.93	3766144.59	18.7351	3.4011	6.3014	5.7946	3.4689	14.2261	62.7376	5.6062	33.4656	19.2217	6.8558		
469594.13	3766418.72	4.3860	1.5509	9.3105	8.4786	1.5949	17.9298	18.0217	2.0922	41.1706	5.1213	2.3656		
CONCUNIT ug/m^3														
DEPUNIT g/m^2														

SLINE1	SLINE2	SLINE3	SLINE4	SLINE5	SLINE6	SLINE7	SLINE8	SLINE9	SLINE10	SLINE11	Total DPM (ug/m3)
Annual DPM Exhaust w/Actual Emissions (ug/m3)	Annual DPM Exhaust w/Actual Emissions (ug/m3)	Annual DPM Exhaust w/Actual Emissions (ug/m3)	Annual DPM Exhaust w/Actual Emissions (ug/m3)	Annual DPM Exhaust w/Actual Emissions (ug/m3)	Annual DPM Exhaust w/Actual Emissions (ug/m3)	Annual DPM Exhaust w/Actual Emissions (ug/m3)	Annual DPM Exhaust w/Actual Emissions (ug/m3)	Annual DPM Exhaust w/Actual Emissions (ug/m3)	Annual DPM Exhaust w/Actual Emissions (ug/m3)	Annual DPM Exhaust w/Actual Emissions (ug/m3)	
6.30E-06	1.57E-06	5.08E-06	4.67E-06	2.80E-06	1.98E-04	8.73E-04	1.56E-04	1.40E-04	1.68E-05	2.24E-05	1.427E-03
1.47E-06	7.14E-07	7.51E-06	6.84E-06	1.29E-06	2.49E-04	2.51E-04	5.82E-05	1.72E-04	4.48E-06	7.75E-06	7.609E-04

Unmitigated 2030
Diesel Passenger Car Emissions

Annual Average Offsite Total DPM Emission Rate - Segment 1 (grams/sec):	1.22E-08
Annual Average Offsite Total DPM Emission Rate - Segment 2 (grams/sec):	1.66E-08
Annual Average Offsite Total DPM Emission Rate - Segment 3 (grams/sec):	1.72E-08
Annual Average Offsite Total DPM Emission Rate - Segment 4 (grams/sec):	1.86E-08
Annual Average Offsite Total DPM Emission Rate - Segment 5 (grams/sec):	1.66E-08
Annual Average Offsite Total DPM Emission Rate - Segment 12 (grams/sec):	2.21E-07
Annual Average Offsite Total DPM Emission Rate - Segment 13 (grams/sec):	2.23E-07

	X	Y							
Construction MIR	469594.13	3766418.72							
Operations MIR	469644.93	3766144.59							
			SLINE1	SLINE2	SLINE3	SLINE4	SLINE5	SLINE12	SLINE13
			Onsite Travel 1 Unit	Onsite Travel 2 Unit	Onsite Idle Unit	Offsite Unit	Offsite Unit	Offsite Unit	Offsite Unit
X	Y		Emissions	Emissions	Emissions	Emissions	Emissions	Emissions	Emissions
			Trucks Segment 1	Trucks Segment 2	Trucks Segment 3	Trucks Segment 4	Trucks Segment 5	Trucks Segment 6	Trucks Segment 7
469644.93	3766144.59		18.7351	3.4011	6.3014	5.7946	3.4689	14.2261	62.7370
469594.13	3766418.72		4.3860	1.5509	9.3105	8.4786	1.5949	17.9298	18.0217
CONCUNIT ug/m^3									
DEPUNIT g/m^2									

SLINE1	SLINE2	SLINE3	SLINE4	SLINE5	SLINE6	SLINE7	Total
Annual DPM Exhaust	Annual DPM Exhaust	Annual DPM Exhaust	Annual DPM Exhaust	Annual DPM Exhaust	Annual DPM Exhaust	Annual DPM Exhaust	DPM
w/Actual Emissions	w/Actual Emissions	w/Actual Emissions	w/Actual Emissions	w/Actual Emissions	w/Actual Emissions	w/Actual Emissions	(ug/m3)
(ug/m3)	(ug/m3)	(ug/m3)	(ug/m3)	(ug/m3)	(ug/m3)	(ug/m3)	
2.28E-07	5.66E-08	1.09E-07	1.08E-07	5.77E-08	3.14E-06	1.40E-05	1.768E-05
5.33E-08	2.58E-08	1.61E-07	1.58E-07	2.65E-08	3.96E-06	4.02E-06	8.402E-06

Unmitigated

2030

Diesel Vehicle Concentrations

		X	Y	DPM (ug/m3)
Construction MIR		469594.13	3766418.72	7.6934E-04
Operations MIR		469644.93	3766144.59	1.4445E-03
		Trucks DPM (ug/m3)	Cars DPM (ug/m3)	Total DPM (ug/m3)
X	Y			
469644.93	3766144.59	1.4268E-03	1.7680E-05	1.4445E-03
469594.13	3766418.72	7.6094E-04	8.4017E-06	7.6934E-04
CONCUNIT ug/m^3				
DEPUNIT g/m^2				

Health Risk Assessment

2040 Operations

Barton Road Logistics Center Project

Diesel Vehicle Emissions

Facility Operations

24 hrs/day, 52 weeks/year

Roadway Links Modeled

Link	Truck Type	Average Speed (mph)	Emission Factor (g/mi)	Trips per Daily (in and out)	Link Length (m)	Link Length (mi)	Ave Emissions Over Link (g/day)	Ave Emissions (lbs/day)	Average Emissions (g/sec)	Total Emissions for all Vehicles (g/sec)
SLINE9	LHDT1	10	0.015	3	1024.9	0.64	2.813E-02	6.20E-05	3.256E-07	
	LHDT2	10	0.029	1	1024.9	0.64	2.584E-02	5.69E-05	2.991E-07	
	MHDT	10	0.004	9	1024.9	0.64	2.513E-02	5.54E-05	2.909E-07	
	HHDT	10	0.010	34	1024.9	0.64	2.232E-01	4.92E-04	2.583E-06	3.50E-06
SLINE10	LHDT1	10	0.015	3	214.1	0.13	5.88E-03	1.29E-05	6.80E-08	
	LHDT2	10	0.029	1	214.1	0.13	5.40E-03	1.19E-05	6.25E-08	
	MHDT	10	0.004	9	214.1	0.13	5.25E-03	1.16E-05	6.08E-08	
	HHDT	10	0.010	34	214.1	0.13	4.66E-02	1.03E-04	5.40E-07	7.31E-07
SLINE11	LHDT1	10	0.015	6	400.7	0.25	2.20E-02	4.84E-05	2.55E-07	
	LHDT2	10	0.029	3	400.7	0.25	2.02E-02	4.45E-05	2.34E-07	
	MHDT	10	0.004	18	400.7	0.25	1.97E-02	4.33E-05	2.27E-07	
	HHDT	10	0.010	68	400.7	0.25	1.75E-01	3.84E-04	2.02E-06	2.74E-06
SLINE12	LDA	15	0.002	4	1198.1	0.74	4.10E-03	9.03E-06	4.74E-08	
	LDT1	15	0.009	0	1198.1	0.74	7.40E-05	1.63E-07	8.57E-10	
	LDT2	15	0.008	1	1198.1	0.74	4.64E-03	1.02E-05	5.37E-08	
	MDV	15	0.002	2	1198.1	0.74	2.58E-03	5.67E-06	2.98E-08	1.32E-07
SLINE13	LDA	15	0.002	4	1207.9	0.75	4.131E-03	9.10E-06	4.782E-08	
	LDT1	15	0.009	0	1207.9	0.75	7.464E-05	1.64E-07	8.639E-10	
	LDT2	15	0.008	1	1207.9	0.75	4.675E-03	1.03E-05	5.411E-08	
	MDV	15	0.002	2	1207.9	0.75	2.596E-03	5.72E-06	3.005E-08	1.33E-07

Diesel Vehicle Emissions

Diesel truck Idling Emissions

Onsite Vehicle Travel Segments	Truck Type	DPM Emission Factor g/vehicle/ day	Number Idling Vehicle Trips/day	Emissions (g/day)	Emissions (lb/day)	Average Emissions (g/sec)	Total Emissions for all Vehicles (g/sec)
SLINE6	LHDT1	0.027	3.0	8.18E-02	1.82E-03	9.46E-07	1.37E-05
	LHDT2	0.027	1.4	3.79E-02	8.35E-05	4.39E-07	
	MHDT	0.001	9.1	8.29E-03	1.83E-05	9.59E-08	
	HHDT	0.031	34.0	1.06E+00	2.33E-03	1.23E-05	
SLINE7	LHDT1	0.027	3.0	8.18E-02	1.80E-04	9.46E-07	1.37E-05
	LHDT2	0.027	1.4	3.79E-02	8.35E-05	4.39E-07	
	MHDT	0.001	9.1	8.29E-03	1.83E-05	9.59E-08	
	HHDT	0.031	34.0	1.06E+00	2.33E-03	1.23E-05	
SLINE8	LHDT1	0.027	6.0	1.64E-01	3.60E-04	1.89E-06	2.75E-05
	LHDT2	0.027	2.8	7.58E-02	1.67E-04	8.77E-07	
	MHDT	0.001	18.1	1.66E-02	3.65E-05	1.92E-07	
	HHDT	0.031	68.0	2.12E+00	4.67E-03	2.45E-05	

Barton Road Logistics Center Project

Project Operations

24 hours/day

Offsite DSL Truck Roadway Emissions

Segment ID	Description	% total Trips
SLINE1	1. Off-site Road 1 – To/from East/West	33.3%
SLINE2	2. Off-site Road 2 – To Project from South	16.7%
SLINE3	3. Off-site Road 3 – From Project towards North	16.7%
SLINE4	4. Off-site Road 4 – To Project from North	16.7%
SLINE5	5. Off-site Road 5 – From Project towards South	16.7%
Total		100.0%

Segment ID:

SLINE1

Travel Distance:

315.8 meters

Operations

24 hours/day

	Daily Trips (trips/day)	Emission Factor (g/mi)	Travel Distance (mi)	Emissions (g/day)	Emissions (g/sec)
Vehicle Class					
LHDT1-DSL	4	0.002	0.20	0.00	2.10E-08
LHDT2-DSL	2	0.002	0.20	0.00	7.69E-09
MHDT-DSL	12	0.002	0.20	0.00	4.27E-08
HHDT-DSL	45	0.003	0.20	0.02	2.65E-07
Total	63				3.36E-07

Segment ID:

SLINE2

Travel Distance:

864.8 meters

Operations

24 hours/day

	Daily Trips (trips/day)	Emission Factor (g/mi)	Travel Distance (mi)	Emissions (g/day)	Emissions (g/sec)
Vehicle Class					
LHDT1-DSL	2	0.002	0.54	0.00	2.87E-08
LHDT2-DSL	1	0.002	0.54	0.00	1.05E-08
MHDT-DSL	6	0.002	0.54	0.01	5.85E-08
HHDT-DSL	23	0.003	0.54	0.03	3.63E-07
Total	32				4.60E-07

Segment ID:

SLINE3

Travel Distance:

895.6 meters

Operations

24 hours/day

	Daily Trips (trips/day)	Emission Factor (g/mi)	Travel Distance (mi)	Emissions (g/day)	Emissions (g/sec)
Vehicle Class					
LHDT1-DSL	24	0.002	0.56	0.03	3.59E-07
LHDT2-DSL	1	0.002	0.56	0.00	1.09E-08
MHDT-DSL	6	0.002	0.56	0.01	6.05E-08
HHDT-DSL	23	0.003	0.56	0.03	3.76E-07
Total	32				8.06E-07

Segment ID:

SLINE4

Travel Distance:

967.4 meters

Operations

24 hours/day

	Daily Trips (trips/day)	Emission Factor (g/mi)	Travel Distance (mi)	Emissions (g/day)	Emissions (g/sec)
Vehicle Class					
LHDT1-DSL	24	0.002	0.56	0.03	3.59E-07
LHDT2-DSL	1	0.002	0.56	0.00	1.09E-08
MHDT-DSL	6	0.002	0.56	0.01	6.05E-08
HHDT-DSL	23	0.003	0.56	0.03	3.76E-07
Total	32				8.06E-07

Segment ID: SLINE5

Travel Distance: 863.7 meters

Operations 24 hours/day

Vehicle Class	Daily Trips (trips/day)	Emission Factor (g/mi)	Travel Distance (mi)	Emissions (g/day)	Emissions (g/sec)
LHDT1-DSL	24	0.002	0.56	0.03	3.59E-07
LHDT2-DSL	1	0.002	0.56	0.00	1.09E-08
MHDT-DSL	6	0.002	0.56	0.01	6.05E-08
HHDT-DSL	23	0.003	0.56	0.03	3.76E-07
Total	32				8.06E-07

Offsite Passenger Vehicle Roadway Segments

Segment ID	Description	% Total Trips
Passenger Vehicles		
SLINE1	1.Off-site Road 1 – To/from East/West	33.3%
SLINE2	2.Off-site Road 2 – To Project from South	16.7%
SLINE3	3.Off-site Road 3 – From Project towards North	16.7%
SLINE4	4.Off-site Road 4 – To Project from North	16.7%
SLINE5	5.Off-site Road 5 – From Project towards South	16.7%
Total		100.0%

Offsite Auto Vehicle Roadway Segment Trips

Segment	LDA-DSL (trips/day)	LDT1-DSL (trips/day)	LDT2-DSL (trips/day)	MDT-DSL (trips/day)
Total Diesel Passenger Vehicles	7.2	0.0	1.6	3.7
SLINE1	2.4	0.0	0.5	1.2
SLINE2	1.2	0.0	0.3	0.6
SLINE3	1.2	0.0	0.3	0.6
SLINE4	1.2	0.0	0.3	0.6
SLINE5	1.2	0.0	0.3	0.6

Offsite Segment ID SLINE1 Emission Factor @ 35 mph for LDA, LDT, MDT

	Segment Length (m)	Segment Length (mi)	Emission Factor (g/mi)	Emissions (g/day)	Operations (hours/day)	Emissions (g/sec)
LDA-DSL	315.8	0.20	0.001	6.55E-04	24	7.58E-09
LDT1-DSL	315.8	0.20	0.002	3.11E-06	24	3.60E-11
LDT2-DSL	315.8	0.20	0.001	1.56E-04	24	1.80E-09
MDT-DSL	315.8	0.20	0.001	2.37E-04	24	2.74E-09
Total						1.22E-08

Offsite Segment ID SLINE2 Emission Factor @ 35 mph for LDA, LDT, MDT

	Segment Length (m)	Segment Length (mi)	Emission Factor (g/mi)	Emissions (g/day)	Operations (hours/day)	Emissions (g/sec)
LDA-DSL	864.8	0.54	0.001	8.97E-04	24	1.04E-08
LDT1-DSL	864.8	0.54	0.002	4.26E-06	24	4.93E-11
LDT2-DSL	864.8	0.54	0.001	2.13E-04	24	2.47E-09
MDT-DSL	864.8	0.54	0.001	3.24E-04	24	3.75E-09
Total						1.66E-08

Offsite Segment ID

SLINE3

Emission Factor @ 35 mph for LDA, LDT, MDT

	Segment Length (m)	Segment Length (mi)	Emission Factor (g/mi)	Emissions (g/day)	Operations (hours/day)	Emissions (g/sec)
LDA-DSL	895.6	0.56	0.001	9.29E-04	24	1.07E-08
LDT1-DSL	895.6	0.56	0.002	4.41E-06	24	5.10E-11
LDT2-DSL	895.6	0.56	0.001	2.21E-04	24	2.56E-09
MDT-DSL	895.6	0.56	0.001	3.36E-04	24	3.88E-09

Total**1.72E-08****Offsite Segment ID**

SLINE4

Emission Factor @ 35 mph for LDA, LDT, MDT

	Segment Length (m)	Segment Length (mi)	Emission Factor (g/mi)	Emissions (g/day)	Operations (hours/day)	Emissions (g/sec)
LDA-DSL	967.4	0.60	0.001	1.00E-03	24	1.16E-08
LDT1-DSL	967.4	0.60	0.002	4.76E-06	24	5.51E-11
LDT2-DSL	967.4	0.60	0.001	2.39E-04	24	2.76E-09
MDT-DSL	967.4	0.60	0.001	3.62E-04	24	4.20E-09

Total**1.86E-08****Offsite Segment ID**

SLINE5

Emission Factor @ 35 mph for LDA, LDT, MDT

	Segment Length (m)	Segment Length (mi)	Emission Factor (g/mi)	Emissions (g/day)	Operations (hours/day)	Emissions (g/sec)
LDA-DSL	863.7	0.54	0.001	8.96E-04	24	1.04E-08
LDT1-DSL	863.7	0.54	0.002	4.25E-06	24	4.92E-11
LDT2-DSL	863.7	0.54	0.001	2.13E-04	24	2.47E-09
MDT-DSL	863.7	0.54	0.001	3.24E-04	24	3.75E-09

Total**1.66E-08**

DPM

2040

EMFAC2017 Running Diesel Exhaust Emissions
in units of grams/mile

		Emission Factor (g/mi)			
		10 mph	15 mph	25 mph	35 mph
LDA	DSL	0.0017	0.0015	0.0009	0.0009
LDT1	DSL	0.0107	0.0090	0.0050	0.0050
LDT2	DSL	0.0088	0.0077	0.0045	0.0045
MDV	DSL	0.0022	0.0019	0.0011	0.0011
LHDT1	DSL	0.0148	0.0126	0.0071	0.0071
LHDT2	DSL	0.0293	0.0251	0.0144	0.0144
MHDT	DSL	0.0044	0.0034	0.0037	0.0037
HHDT	DSL	0.0103	0.0084	0.0080	0.0080

EMFAC2017 Idling Emissions
in units of g/vehicle/day

Vehicle		Vehicle	DPM
Class	Fuel	Speed	(g/vehicle/day)
		(mph)	
LHDT1	DSL	Idle	0.0274583
LHDT2	DSL	Idle	0.02740609
MHDT	DSL	Idle	0.00091458
HHDT	DSL	Idle	0.03117942

Unmitigated
Diesel Truck Emissions

2040

Annual Average Offsite Total DPM Emission Rate - Segment 1 (grams/sec):	3.36E-07
Annual Average Offsite Total DPM Emission Rate - Segment 2 (grams/sec):	4.60E-07
Annual Average Offsite Total DPM Emission Rate - Segment 3 (grams/sec):	8.06E-07
Annual Average Offsite Total DPM Emission Rate - Segment 4 (grams/sec):	8.06E-07
Annual Average Offsite Total DPM Emission Rate - Segment 5 (grams/sec):	8.06E-07
Annual Average Offsite Total DPM Emission Rate - Segment 6 (grams/sec):	1.37E-05
Annual Average Offsite Total DPM Emission Rate - Segment 7 (grams/sec):	1.37E-05
Annual Average Offsite Total DPM Emission Rate - Segment 8 (grams/sec):	2.75E-05
Annual Average Offsite Total DPM Emission Rate - Segment 9 (grams/sec):	3.50E-06
Annual Average Offsite Total DPM Emission Rate - Segment 10 (grams/sec):	7.31E-07
Annual Average Offsite Total DPM Emission Rate - Segment 11 (grams/sec):	2.74E-06

		X	Y											
Construction MIR		469594.13	3766418.72											
Operations MIR		469644.93	3766144.59											
				SLINE1	SLINE2	SLINE3	SLINE4	SLINE5	SLINE6	SLINE7	SLINE8	SLINE9	SLINE10	SLINE11
X	Y	Onsite Travel 1 Unit Emissions	Onsite Travel 2 Unit Emissions	Onsite Idle Unit Emissions	Offsite Unit Emissions	Offsite Unit Emissions	Offsite Unit Emissions	Offsite Unit Emissions	Offsite Unit Emissions	Offsite Unit Emissions	Offsite Unit Emissions	Offsite Unit Emissions	Offsite Unit Emissions	Offsite Unit Emissions
		Trucks Segment 1	Trucks Segment 2	Trucks Segment 3	Trucks Segment 4	Trucks Segment 5	Trucks Segment 6	Trucks Segment 7	Trucks Segment 8	Trucks Segment 9	Trucks Segment 10	Trucks Segment 11		
469644.93	3766144.59	18.7351	3.4011	6.3014	5.7946	3.4689	14.2261	62.7376	5.6062	33.4656	19.2217	6.8558		
469594.13	3766418.72	4.3860	1.5509	9.3105	8.4786	1.5949	17.9298	18.0217	2.0922	41.1706	5.1213	2.3656		
CONCUNIT ug/m^3														
DEPUNIT g/m^2														

SLINE1	SLINE2	SLINE3	SLINE4	SLINE5	SLINE6	SLINE7	SLINE8	SLINE9	SLINE10	SLINE11	Total DPM (ug/m3)
Annual DPM Exhaust w/Actual Emissions (ug/m3)	Annual DPM Exhaust w/Actual Emissions (ug/m3)	Annual DPM Exhaust w/Actual Emissions (ug/m3)	Annual DPM Exhaust w/Actual Emissions (ug/m3)	Annual DPM Exhaust w/Actual Emissions (ug/m3)	Annual DPM Exhaust w/Actual Emissions (ug/m3)	Annual DPM Exhaust w/Actual Emissions (ug/m3)	Annual DPM Exhaust w/Actual Emissions (ug/m3)	Annual DPM Exhaust w/Actual Emissions (ug/m3)	Annual DPM Exhaust w/Actual Emissions (ug/m3)	Annual DPM Exhaust w/Actual Emissions (ug/m3)	
6.30E-06	1.57E-06	5.08E-06	4.67E-06	2.80E-06	1.96E-04	8.62E-04	1.54E-04	1.17E-04	1.40E-05	1.88E-05	1.382E-03
1.47E-06	7.14E-07	7.51E-06	6.84E-06	1.29E-06	2.46E-04	2.48E-04	5.75E-05	1.44E-04	3.74E-06	6.47E-06	7.237E-04

Unmitigated 2040
Diesel Passenger Car Emissions

Annual Average Offsite Total DPM Emission Rate - Segment 1 (grams/sec): 1.22E-08
 Annual Average Offsite Total DPM Emission Rate - Segment 2 (grams/sec): 1.66E-08
 Annual Average Offsite Total DPM Emission Rate - Segment 3 (grams/sec): 1.72E-08
 Annual Average Offsite Total DPM Emission Rate - Segment 4 (grams/sec): 1.86E-08
 Annual Average Offsite Total DPM Emission Rate - Segment 5 (grams/sec): 1.66E-08
 Annual Average Offsite Total DPM Emission Rate - Segment 12 (grams/sec): 1.32E-07
 Annual Average Offsite Total DPM Emission Rate - Segment 13 (grams/sec): 1.33E-07

	X	Y							
Construction MIR	469594.13	3766418.72							
Operations MIR	469644.93	3766144.59							
			SLINE1	SLINE2	SLINE3	SLINE4	SLINE5	SLINE12	SLINE13
			Onsite Travel 1 Unit	Onsite Travel 2 Unit	Onsite Idle Unit	Offsite Unit	Offsite Unit	Offsite Unit	Offsite Unit
X	Y		Emissions	Emissions	Emissions	Emissions	Emissions	Emissions	Emissions
			Trucks Segment 1	Trucks Segment 2	Trucks Segment 3	Trucks Segment 4	Trucks Segment 5	Trucks Segment 6	Trucks Segment 7
469644.93	3766144.59		18.7351	3.4011	6.3014	5.7946	3.4689	14.2261	62.7370
469594.13	3766418.72		4.3860	1.5509	9.3105	8.4786	1.5949	17.9298	18.0217
CONCUNIT ug/m^3									
DEPUNIT g/m^2									

SLINE1	SLINE2	SLINE3	SLINE4	SLINE5	SLINE6	SLINE7	Total
Annual DPM Exhaust	Annual DPM Exhaust	Annual DPM Exhaust	Annual DPM Exhaust	Annual DPM Exhaust	Annual DPM Exhaust	Annual DPM Exhaust	DPM
w/Actual Emissions	w/Actual Emissions	w/Actual Emissions	w/Actual Emissions	w/Actual Emissions	w/Actual Emissions	w/Actual Emissions	(ug/m3)
(ug/m3)	(ug/m3)	(ug/m3)	(ug/m3)	(ug/m3)	(ug/m3)	(ug/m3)	
2.28E-07	5.66E-08	1.09E-07	1.08E-07	5.77E-08	1.87E-06	8.33E-06	1.077E-05
5.33E-08	2.58E-08	1.61E-07	1.58E-07	2.65E-08	2.36E-06	2.39E-06	5.181E-06

Unmitigated
Diesel Vehicle Concentrations

2040

		X	Y	DPM (ug/m3)
Construction MIR		469594.13	3766418.72	7.2890E-04
Operations MIR		469644.93	3766144.59	1.3930E-03
		Trucks DPM (ug/m3)	Cars DPM (ug/m3)	Total DPM (ug/m3)
X	Y			
469644.93	3766144.59	1.3822E-03	1.0767E-05	1.3930E-03
469594.13	3766418.72	7.2372E-04	5.1806E-06	7.2890E-04
CONCUNIT ug/m^3				
DEPUNIT g/m^2				

Health Risk Assessment

2050 Operations

Barton Road Logistics Center Project

Diesel Vehicle Emissions

Facility Operations

24 hrs/day, 52 weeks/year

Roadway Links Modeled

Link	Truck Type	Average Speed (mph)	Emission Factor (g/mi)	Trips per Daily (in and out)	Link Length (m)	Link Length (mi)	Ave Emissions Over Link (g/day)	Ave Emissions (lbs/day)	Average Emissions (g/sec)	Total Emissions for all Vehicles (g/sec)
SLINE9	LHDT1	10	0.011	3	1024.9	0.64	2.124E-02	4.68E-05	2.459E-07	3.36E-06
	LHDT2	10	0.028	1	1024.9	0.64	2.434E-02	5.36E-05	2.818E-07	
	MHDT	10	0.004	9	1024.9	0.64	2.480E-02	5.46E-05	2.870E-07	
	HHDT	10	0.010	34	1024.9	0.64	2.202E-01	4.85E-04	2.549E-06	
SLINE10	LHDT1	10	0.011	3	214.1	0.13	4.44E-03	9.77E-06	5.14E-08	7.03E-07
	LHDT2	10	0.028	1	214.1	0.13	5.09E-03	1.12E-05	5.89E-08	
	MHDT	10	0.004	9	214.1	0.13	5.18E-03	1.14E-05	6.00E-08	
	HHDT	10	0.010	34	214.1	0.13	4.60E-02	1.01E-04	5.33E-07	
SLINE11	LHDT1	10	0.011	6	400.7	0.25	1.66E-02	3.66E-05	1.92E-07	2.63E-06
	LHDT2	10	0.028	3	400.7	0.25	1.90E-02	4.19E-05	2.20E-07	
	MHDT	10	0.004	18	400.7	0.25	1.94E-02	4.27E-05	2.24E-07	
	HHDT	10	0.010	68	400.7	0.25	1.72E-01	3.79E-04	1.99E-06	
SLINE12	LDA	15	0.001	4	1198.1	0.74	3.44E-03	7.58E-06	3.98E-08	1.18E-07
	LDT1	15	0.008	0	1198.1	0.74	6.67E-05	1.47E-07	7.72E-10	
	LDT2	15	0.008	1	1198.1	0.74	4.68E-03	1.03E-05	5.42E-08	
	MDV	15	0.001	2	1198.1	0.74	1.97E-03	4.34E-06	2.28E-08	
SLINE13	LDA	15	0.001	4	1207.9	0.75	3.471E-03	7.64E-06	4.017E-08	1.19E-07
	LDT1	15	0.008	0	1207.9	0.75	6.726E-05	1.48E-07	7.785E-10	
	LDT2	15	0.008	1	1207.9	0.75	4.719E-03	1.04E-05	5.462E-08	
	MDV	15	0.001	2	1207.9	0.75	1.985E-03	4.37E-06	2.297E-08	

Diesel Vehicle Emissions

Diesel truck Idling Emissions

Onsite Vehicle Travel Segments	Truck Type	DPM Emission Factor g/vehicle/ day	Number Idling Vehicle Trips/day	Emissions (g/day)	Emissions (lb/day)	Average Emissions (g/sec)	Total Emissions for all Vehicles (g/sec)
SLINE6	LHDT1	0.028	3.0	8.22E-02	1.83E-03	9.51E-07	
	LHDT2	0.028	1.4	3.81E-02	8.40E-05	4.41E-07	
	MHDT	0.001	9.1	7.35E-03	1.62E-05	8.50E-08	
	HHDT	0.031	34.0	1.06E+00	2.33E-03	1.22E-05	1.37E-05
SLINE7	LHDT1	0.028	3.0	8.22E-02	1.81E-04	9.51E-07	
	LHDT2	0.028	1.4	3.81E-02	8.40E-05	4.41E-07	
	MHDT	0.001	9.1	7.35E-03	1.62E-05	8.50E-08	
	HHDT	0.031	34.0	1.06E+00	2.33E-03	1.22E-05	1.37E-05
SLINE8	LHDT1	0.028	6.0	1.64E-01	3.62E-04	1.90E-06	
	LHDT2	0.028	2.8	7.62E-02	1.68E-04	8.82E-07	
	MHDT	0.001	18.1	1.47E-02	3.24E-05	1.70E-07	
	HHDT	0.031	68.0	2.11E+00	4.65E-03	2.44E-05	2.74E-05

Barton Road Logistics Center Project

Project Operations

24 hours/day

Offsite DSL Truck Roadway Emissions

Segment ID	Description	% total Trips
SLINE1	1. Off-site Road 1 – To/from East/West	33.3%
SLINE2	2. Off-site Road 2 – To Project from South	16.7%
SLINE3	3. Off-site Road 3 – From Project towards North	16.7%
SLINE4	4. Off-site Road 4 – To Project from North	16.7%
SLINE5	5. Off-site Road 5 – From Project towards South	16.7%
Total		100.0%

Segment ID:

SLINE1

Travel Distance:

315.8 meters

Operations

24 hours/day

Vehicle Class	Daily Trips (trips/day)	Emission Factor (g/mi)	Travel Distance (mi)	Emissions (g/day)	Emissions (g/sec)
LHDT1-DSL	4	0.002	0.20	0.00	2.10E-08
LHDT2-DSL	2	0.002	0.20	0.00	7.69E-09
MHDT-DSL	12	0.002	0.20	0.00	4.27E-08
HHDT-DSL	45	0.003	0.20	0.02	2.65E-07
Total	63				3.36E-07

Segment ID:

SLINE2

Travel Distance:

864.8 meters

Operations

24 hours/day

Vehicle Class	Daily Trips (trips/day)	Emission Factor (g/mi)	Travel Distance (mi)	Emissions (g/day)	Emissions (g/sec)
LHDT1-DSL	2	0.002	0.54	0.00	2.87E-08
LHDT2-DSL	1	0.002	0.54	0.00	1.05E-08
MHDT-DSL	6	0.002	0.54	0.01	5.85E-08
HHDT-DSL	23	0.003	0.54	0.03	3.63E-07
Total	32				4.60E-07

Segment ID:

SLINE3

Travel Distance:

895.6 meters

Operations

24 hours/day

Vehicle Class	Daily Trips (trips/day)	Emission Factor (g/mi)	Travel Distance (mi)	Emissions (g/day)	Emissions (g/sec)
LHDT1-DSL	24	0.002	0.56	0.03	3.59E-07
LHDT2-DSL	1	0.002	0.56	0.00	1.09E-08
MHDT-DSL	6	0.002	0.56	0.01	6.05E-08
HHDT-DSL	23	0.003	0.56	0.03	3.76E-07
Total	32				8.06E-07

Segment ID:

SLINE4

Travel Distance:

967.4 meters

Operations

24 hours/day

Vehicle Class	Daily Trips (trips/day)	Emission Factor (g/mi)	Travel Distance (mi)	Emissions (g/day)	Emissions (g/sec)
LHDT1-DSL	24	0.002	0.56	0.03	3.59E-07
LHDT2-DSL	1	0.002	0.56	0.00	1.09E-08
MHDT-DSL	6	0.002	0.56	0.01	6.05E-08
HHDT-DSL	23	0.003	0.56	0.03	3.76E-07
Total	32				8.06E-07

Segment ID: SLINE5

Travel Distance: 863.7 meters

Operations 24 hours/day

Vehicle Class	Daily Trips (trips/day)	Emission Factor (g/mi)	Travel Distance (mi)	Emissions (g/day)	Emissions (g/sec)
LHDT1-DSL	24	0.002	0.56	0.03	3.59E-07
LHDT2-DSL	1	0.002	0.56	0.00	1.09E-08
MHDT-DSL	6	0.002	0.56	0.01	6.05E-08
HHDT-DSL	23	0.003	0.56	0.03	3.76E-07
Total	32				8.06E-07

Offsite Passenger Vehicle Roadway Segments

Segment ID	Description	% Total Trips
Passenger Vehicles		
SLINE1	1.Off-site Road 1 – To/from East/West	33.3%
SLINE2	2.Off-site Road 2 – To Project from South	16.7%
SLINE3	3.Off-site Road 3 – From Project towards North	16.7%
SLINE4	4.Off-site Road 4 – To Project from North	16.7%
SLINE5	5.Off-site Road 5 – From Project towards South	16.7%
Total		100.0%

Offsite Auto Vehicle Roadway Segment Trips

Segment	LDA-DSL (trips/day)	LDT1-DSL (trips/day)	LDT2-DSL (trips/day)	MDT-DSL (trips/day)
Total Diesel Passenger Vehicles	7.2	0.0	1.6	3.7
SLINE1	2.4	0.0	0.5	1.2
SLINE2	1.2	0.0	0.3	0.6
SLINE3	1.2	0.0	0.3	0.6
SLINE4	1.2	0.0	0.3	0.6
SLINE5	1.2	0.0	0.3	0.6

Offsite Segment ID SLINE1 Emission Factor @ 35 mph for LDA, LDT, MDT

	Segment Length (m)	Segment Length (mi)	Emission Factor (g/mi)	Emissions (g/day)	Operations (hours/day)	Emissions (g/sec)
LDA-DSL	315.8	0.20	0.001	6.55E-04	24	7.58E-09
LDT1-DSL	315.8	0.20	0.002	3.11E-06	24	3.60E-11
LDT2-DSL	315.8	0.20	0.001	1.56E-04	24	1.80E-09
MDT-DSL	315.8	0.20	0.001	2.37E-04	24	2.74E-09
Total						1.22E-08

Offsite Segment ID SLINE2 Emission Factor @ 35 mph for LDA, LDT, MDT

	Segment Length (m)	Segment Length (mi)	Emission Factor (g/mi)	Emissions (g/day)	Operations (hours/day)	Emissions (g/sec)
LDA-DSL	864.8	0.54	0.001	8.97E-04	24	1.04E-08
LDT1-DSL	864.8	0.54	0.002	4.26E-06	24	4.93E-11
LDT2-DSL	864.8	0.54	0.001	2.13E-04	24	2.47E-09
MDT-DSL	864.8	0.54	0.001	3.24E-04	24	3.75E-09
Total						1.66E-08

Offsite Segment ID

SLINE3

Emission Factor @ 35 mph for LDA, LDT, MDT

	Segment Length (m)	Segment Length (mi)	Emission Factor (g/mi)	Emissions (g/day)	Operations (hours/day)	Emissions (g/sec)
LDA-DSL	895.6	0.56	0.001	9.29E-04	24	1.07E-08
LDT1-DSL	895.6	0.56	0.002	4.41E-06	24	5.10E-11
LDT2-DSL	895.6	0.56	0.001	2.21E-04	24	2.56E-09
MDT-DSL	895.6	0.56	0.001	3.36E-04	24	3.88E-09

Total**1.72E-08****Offsite Segment ID**

SLINE4

Emission Factor @ 35 mph for LDA, LDT, MDT

	Segment Length (m)	Segment Length (mi)	Emission Factor (g/mi)	Emissions (g/day)	Operations (hours/day)	Emissions (g/sec)
LDA-DSL	967.4	0.60	0.001	1.00E-03	24	1.16E-08
LDT1-DSL	967.4	0.60	0.002	4.76E-06	24	5.51E-11
LDT2-DSL	967.4	0.60	0.001	2.39E-04	24	2.76E-09
MDT-DSL	967.4	0.60	0.001	3.62E-04	24	4.20E-09

Total**1.86E-08****Offsite Segment ID**

SLINE5

Emission Factor @ 35 mph for LDA, LDT, MDT

	Segment Length (m)	Segment Length (mi)	Emission Factor (g/mi)	Emissions (g/day)	Operations (hours/day)	Emissions (g/sec)
LDA-DSL	863.7	0.54	0.001	8.96E-04	24	1.04E-08
LDT1-DSL	863.7	0.54	0.002	4.25E-06	24	4.92E-11
LDT2-DSL	863.7	0.54	0.001	2.13E-04	24	2.47E-09
MDT-DSL	863.7	0.54	0.001	3.24E-04	24	3.75E-09

Total**1.66E-08**

DPM

2050

EMFAC2017 Running Diesel Exhaust Emissions
in units of grams/mile

		Emission Factor (g/mi)			
		10 mph	15 mph	25 mph	35 mph
LDA	DSL	0.0015	0.0013	0.0009	0.0008
LDT1	DSL	0.0093	0.0081	0.0059	0.0047
LDT2	DSL	0.0089	0.0078	0.0057	0.0046
MDV	DSL	0.0017	0.0014	0.0011	0.0009
LHDT1	DSL	0.0112	0.0098	0.0071	0.0057
LHDT2	DSL	0.0276	0.0240	0.0175	0.0140
MHDT	DSL	0.0043	0.0034	0.0028	0.0036
HHDT	DSL	0.0102	0.0083	0.0062	0.0080

EMFAC2017 Idling Emissions
in units of g/vehicle/day

Vehicle Class	Fuel	Vehicle Speed (mph)	DPM (g/vehicle/day)
LHDT1	DSL	Idle	0.0276046
LHDT2	DSL	Idle	0.02756007
MHDT	DSL	Idle	0.00081091
HHDT	DSL	Idle	0.03106583

Unmitigated
Diesel Truck Emissions

2050

Annual Average Offsite Total DPM Emission Rate - Segment 1 (grams/sec):	3.36E-07
Annual Average Offsite Total DPM Emission Rate - Segment 2 (grams/sec):	4.60E-07
Annual Average Offsite Total DPM Emission Rate - Segment 3 (grams/sec):	8.06E-07
Annual Average Offsite Total DPM Emission Rate - Segment 4 (grams/sec):	8.06E-07
Annual Average Offsite Total DPM Emission Rate - Segment 5 (grams/sec):	8.06E-07
Annual Average Offsite Total DPM Emission Rate - Segment 6 (grams/sec):	1.37E-05
Annual Average Offsite Total DPM Emission Rate - Segment 7 (grams/sec):	1.37E-05
Annual Average Offsite Total DPM Emission Rate - Segment 8 (grams/sec):	2.74E-05
Annual Average Offsite Total DPM Emission Rate - Segment 9 (grams/sec):	3.36E-06
Annual Average Offsite Total DPM Emission Rate - Segment 10 (grams/sec):	7.03E-07
Annual Average Offsite Total DPM Emission Rate - Segment 11 (grams/sec):	2.63E-06

	X	Y
Construction MIR	469594.13	3766418.72
Operations MIR	469644.93	3766144.59

		SLINE1 Onsite Travel 1 Unit Emissions	SLINE2 Onsite Travel 2 Unit Emissions	SLINE3 Onsite Idle Unit Emissions	SLINE4 Offsite Unit Emissions	SLINE5 Offsite Unit Emissions	SLINE6 Offsite Unit Emissions	SLINE7 Offsite Unit Emissions	SLINE8 Offsite Unit Emissions	SLINE9 Offsite Unit Emissions	SLINE10 Offsite Unit Emissions	SLINE11 Offsite Unit Emissions
X	Y	Trucks Segment 1	Trucks Segment 2	Trucks Segment 3	Trucks Segment 4	Trucks Segment 5	Trucks Segment 6	Trucks Segment 7	Trucks Segment 8	Trucks Segment 9	Trucks Segment 10	Trucks Segment 11
469644.93	3766144.59	18.7351	3.4011	6.3014	5.7946	3.4689	14.2261	62.7376	5.6062	33.4656	19.2217	6.8558
469594.13	3766418.72	4.3860	1.5509	9.3105	8.4786	1.5949	17.9298	18.0217	2.0922	41.1706	5.1213	2.3656

CONCUNIT ug/m^3
DEPUNIT g/m^2

SLINE1 Annual DPM Exhaust w/Actual Emissions (ug/m3)	SLINE2 Annual DPM Exhaust w/Actual Emissions (ug/m3)	SLINE3 Annual DPM Exhaust w/Actual Emissions (ug/m3)	SLINE4 Annual DPM Exhaust w/Actual Emissions (ug/m3)	SLINE5 Annual DPM Exhaust w/Actual Emissions (ug/m3)	SLINE6 Annual DPM Exhaust w/Actual Emissions (ug/m3)	SLINE7 Annual DPM Exhaust w/Actual Emissions (ug/m3)	SLINE8 Annual DPM Exhaust w/Actual Emissions (ug/m3)	SLINE9 Annual DPM Exhaust w/Actual Emissions (ug/m3)	SLINE10 Annual DPM Exhaust w/Actual Emissions (ug/m3)	SLINE11 Annual DPM Exhaust w/Actual Emissions (ug/m3)	Total DPM (ug/m3)
6.30E-06	1.57E-06	5.08E-06	4.67E-06	2.80E-06	1.95E-04	8.59E-04	1.54E-04	1.13E-04	1.35E-05	1.80E-05	1.372E-03
1.47E-06	7.14E-07	7.51E-06	6.84E-06	1.29E-06	2.46E-04	2.47E-04	5.73E-05	1.38E-04	3.60E-06	6.22E-06	7.158E-04

Unmitigated 2050
Diesel Passenger Car Emissions

Annual Average Offsite Total DPM Emission Rate - Segment 1 (grams/sec): 1.22E-08
 Annual Average Offsite Total DPM Emission Rate - Segment 2 (grams/sec): 1.66E-08
 Annual Average Offsite Total DPM Emission Rate - Segment 3 (grams/sec): 1.72E-08
 Annual Average Offsite Total DPM Emission Rate - Segment 4 (grams/sec): 1.86E-08
 Annual Average Offsite Total DPM Emission Rate - Segment 5 (grams/sec): 1.66E-08
 Annual Average Offsite Total DPM Emission Rate - Segment 12 (grams/sec): 1.18E-07
 Annual Average Offsite Total DPM Emission Rate - Segment 13 (grams/sec): 1.19E-07

	X	Y							
Construction MIR	469594.13	3766418.72							
Operations MIR	469644.93	3766144.59							
			SLINE1	SLINE2	SLINE3	SLINE4	SLINE5	SLINE12	SLINE13
			Onsite Travel 1 Unit	Onsite Travel 2 Unit	Onsite Idle Unit	Offsite Unit	Offsite Unit	Offsite Unit	Offsite Unit
X	Y		Emissions	Emissions	Emissions	Emissions	Emissions	Emissions	Emissions
			Trucks Segment 1	Trucks Segment 2	Trucks Segment 3	Trucks Segment 4	Trucks Segment 5	Trucks Segment 6	Trucks Segment 7
469644.93	3766144.59		18.7351	3.4011	6.3014	5.7946	3.4689	14.2261	62.7370
469594.13	3766418.72		4.3860	1.5509	9.3105	8.4786	1.5949	17.9298	18.0217
CONCUNIT ug/m^3									
DEPUNIT g/m^2									

SLINE1	SLINE2	SLINE3	SLINE4	SLINE5	SLINE6	SLINE7	Total
Annual DPM Exhaust	Annual DPM Exhaust	Annual DPM Exhaust	Annual DPM Exhaust	Annual DPM Exhaust	Annual DPM Exhaust	Annual DPM Exhaust	DPM
w/Actual Emissions	w/Actual Emissions	w/Actual Emissions	w/Actual Emissions	w/Actual Emissions	w/Actual Emissions	w/Actual Emissions	(ug/m3)
(ug/m3)	(ug/m3)	(ug/m3)	(ug/m3)	(ug/m3)	(ug/m3)	(ug/m3)	
2.28E-07	5.66E-08	1.09E-07	1.08E-07	5.77E-08	1.67E-06	7.44E-06	9.668E-06
5.33E-08	2.58E-08	1.61E-07	1.58E-07	2.65E-08	2.11E-06	2.14E-06	4.669E-06

Unmitigated
Diesel Vehicle Concentrations

2050

		X	Y	DPM (ug/m3)
Construction MIR		469594.13	3766418.72	7.2051E-04
Operations MIR		469644.93	3766144.59	1.3819E-03
		Trucks DPM (ug/m3)	Cars DPM (ug/m3)	Total DPM (ug/m3)
X	Y			
469644.93	3766144.59	1.3722E-03	9.6681E-06	1.3819E-03
469594.13	3766418.72	7.1584E-04	4.6685E-06	7.2051E-04
CONCUNIT ug/m^3				
DEPUNIT g/m^2				

Appendix C: Additional Air Quality and Greenhouse Gas Emissions Supporting Information

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Barton Road Logistics Center Project Construction Assumptions

Construction Phase

Phase Name	Phase Type	Start Date	End Date	Num Days	
				Week	Num Days
Demolition	Demolition	2/15/2021	7/2/2021	5	100
Site Preparation	Site Preparation	7/3/2021	7/30/2021	5	20
Grading	Grading	7/31/2021	9/10/2021	5	30
Building Construction	Building Construction	9/11/2021	3/4/2022	5	125
Paving	Paving	3/5/2022	4/8/2022	5	25
Architectural Coating	Architectural Coating	4/9/2022	5/13/2022	5	25
Off-Site Improvements	Site Preparation	9/25/2021	10/4/2021	5	6
Off-Site Improvements	Grading	10/5/2021	10/21/2021	5	13
Off-Site Improvements	Paving	10/22/2021	12/3/2021	5	31

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse	
				Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8	81	0.73
Demolition	Excavators	3	8	158	0.38
Demolition	Rubber Tired Dozers	2	8	247	0.40
Site Preparation	Rubber Tired Dozers	3	8	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8	97	0.37
Grading	Excavators	2	8	158	0.38
Grading	Graders	1	8	187	0.41
Grading	Rubber Tired Dozers	1	8	247	0.40
Grading	Scrapers	2	8	367	0.48
Grading	Tractors/Loaders/Backhoes	2	8	97	0.37
Building Construction	Cranes	1	7	231	0.29
Building Construction	Forklifts	3	8	89	0.20
Building Construction	Generator Sets	1	8	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7	97	0.37
Building Construction	Welders	1	8	46	0.45
Paving	Pavers	2	8	130	0.42
Paving	Paving Equipment	2	8	132	0.36
Paving	Rollers	2	8	80	0.38
Architectural Coating	Air Compressors	1	6	78	0.48
Off-Site Improvements	Graders	1	8	187	0.41
Off-Site Improvements	Tractors/Loaders/Backhoes	1	8	97	0.37
Off-Site Improvements	Concrete/Industrial Saws	1	8	81	0.73
Off-Site Improvements	Rubber Tired Dozers	1	1	247	0.40
Off-Site Improvements	Tractors/Loaders/Backhoes	2	6	97	0.37
Off-Site Improvements	Cement and Mortar Mixers	4	6	9	0.56
Off-Site Improvements	Pavers	1	7	130	0.42
Off-Site Improvements	Rollers	1	7	80	0.38
Off-Site Improvements	Tractors/Loaders/Backhoes	1	7	97	0.37

Trips and VMT

Phase Name	Worker Trip	Vendor Trip	Hauling Trip	Worker Trip	Vendor Trip	Hauling Trip
	Number	Number	Number	Length	Length	Length
Demolition	15	0	11,934	14.7	6.9	20
Site Preparation	18	0	0	14.7	6.9	20
Grading	20	0	155	14.7	6.9	20
Building Construction	869	340	0	14.7	6.9	20
Paving	15	0	0	14.7	6.9	20
Architectural Coating	174	0	0	14.7	6.9	20
Off-Site Improvements	5	0	0	14.7	6.9	20
Off-Site Improvements	10	0	0	14.7	6.9	20
Off-Site Improvements	18	0	0	14.7	6.9	20

Barton Road Logistics Center Project

Estimation of Demolition Debris

Buildings

Debris Generation for Buildings (cy)

Approximate Size	Area (sq ft)	~H (ft)	Stories	Cubic Feet	/27	*0.33
Existing building	659,435	20	1	13188700	488470.4	161195.2
Total Building	659,435					

Removal of Hardscape

Approximate Size	1,603,931	sq-feet
Thickness	6	inches
Volume	801,966	cu-ft
Volume	29,702	cy

Conversion Weight of Impervious: 2,700 lbs/cy

Weight of Impervious: 40,098.28 tons of debris

Conversion of Tons of Debris to Cubic Yards

Conversion Factor	1 cy = 0.5 tons	
Impervious	80,196.55	cy

Total

Removal of surfaces	80197	cy
Total Building	161,195	cy
Total	241,392	cy

Removal of surfaces	40098 tons of debris
Total Building	80,598 tons of debris
Total	120,696 tons of debris

Notes: cy = cubic yards; ft= feet; ~ = approximate; lbs = pounds; sq-feet = square feet; cu-ft = cubic feet

Source of conversion factors:

Federal Emergency Management Agency (FEMA). 2010. Debris Estimating Field Guide. September. Website: https://www.fema.gov/pdf/government/grant/pa/fema_329_debris_estimating.pdf. Accessed February 2019.

DownEaster. 2015. Material Weight – Pounds per Cubic Yard. June 9. Website: https://downeastermfg.com/wp-content/uploads/2015/.../Cubic_Yardage_Chart-D.pdf. Accessed February 2019.

Screening Table for Implementation of GHG Reduction Measures for Commercial Development

Feature	Description	Assigned Point Values	Project Points
Reduction Measure PS E3: Commercial/Industrial Energy Efficiency Development			
Building Envelope			
Insulation	2008 baseline (walls R-13; roof/attic R-30)	0 points	
	Modestly Enhanced Insulation (walls R-13, roof/attic R-38))	15 points	
	Enhanced Insulation (rigid wall insulation R-13, roof/attic R-38)	18 points	
	Greatly Enhanced Insulation (spray foam insulated walls R-15 or higher, roof/attic R-38 or higher)	20 points	
Windows	2008 Baseline Windows (0.57 U-factor, 0.4 solar heat gain coefficient [SHGC])	0 points	
	Modestly Enhanced Window Insulation (0.4 U-factor, 0.32 SHGC)	7 points	
	Enhanced Window Insulation (0.32 U-factor, 0.25 SHGC)	8 points	
	Greatly Enhanced Window Insulation (0.28 or less U-factor, 0.22 or less SHGC)	12 points	
Cool Roof	Modest Cool Roof (CRRC Rated 0.15 aged solar reflectance, 0.75 thermal emittance)	12 points	
	Enhanced Cool Roof (CRRC Rated 0.2 aged solar reflectance, 0.75 thermal emittance)	14 points	
	Greatly Enhanced Cool Roof (CRRC Rated 0.35 aged solar reflectance, 0.75 thermal emittance)	16 points	
Air Infiltration	Minimizing leaks in the building envelope is as important as the insulation properties of the building. Insulation does not work effectively if there is excess air leakage.		
	Air barrier applied to exterior walls, caulking, and visual inspection such as the HERS Verified Quality Insulation Installation (QII or equivalent)	12 points	
	Blower Door HERS Verified Envelope Leakage or equivalent	10 points	
Thermal Storage of Building	Thermal storage is a design characteristic that helps keep a constant temperature in the building. Common thermal storage devices include strategically placed water filled columns, water storage tanks, and thick masonry walls.		
	Modest Thermal Mass (10% of floor or 10% of walls 12" or more thick exposed concrete or masonry with no permanently installed floor covering such as carpet, linoleum, wood or other insulating materials)	4 points	
	Enhanced Thermal Mass (20% of floor or 20% of walls 12" or more thick exposed concrete or masonry with no permanently installed floor covering such as carpet, linoleum, wood or other insulating materials)	6 points	

Feature	Description	Assigned Point Values	Project Points
	Enhanced Thermal Mass (80% of floor or 80% of walls 12" or more thick exposed concrete or masonry with no permanently installed floor covering such as carpet, linoleum, wood or other insulating materials)	24 points	
Indoor Space Efficiencies			
Heating/ Cooling Distribution System	Minimum Duct Insulation (R-4.2 required)	0 points	
	Modest Duct insulation (R-6)	8 points	
	Enhanced Duct Insulation (R-8)	10 points	
	Distribution loss reduction with inspection (HERS Verified Duct Leakage or equivalent)	14 points	
Space Heating/ Cooling Equipment	2008 Minimum HVAC Efficiency (EER 13/75% AFUE or 7.7 HSPF)	0 points	
	Improved Efficiency HVAC (EER 14/78% AFUE or 8 HSPF)	7 points	
	High Efficiency HVAC (EER 15/80% AFUE or 8.5 HSPF)	8 points	
	Very High Efficiency HVAC (EER 16/82% AFUE or 9 HSPF)	12 points	
Commercial Heat Recovery Systems	Heat recovery strategies employed with commercial laundry, cooking equipment, and other commercial heat sources for reuse in HVAC air intake or other appropriate heat recovery technology. Point values for these types of systems will be determined based upon design and engineering data documenting the energy savings.	TBD	
Water Heaters	2008 Minimum Efficiency (0.57 Energy Factor)	0 points	
	Improved Efficiency Water Heater (0.675 Energy Factor)	14 points	
	High Efficiency Water Heater (0.72 Energy Factor)	16 points	
	Very High Efficiency Water Heater (0.92 Energy Factor)	19 points	
	Solar Pre-heat System (0.2 Net Solar Fraction)	4 points	
	Enhanced Solar Pre-heat System (0.35 Net Solar Fraction)	8 points	
Daylighting	Daylighting is the ability of each room within the building to provide outside light during the day reducing the need for artificial lighting during daylight hours.		
	All peripheral rooms within building have at least one window or skylight	1 points	
	All rooms within building have daylight (through use of windows, solar tubes, skylights, etc.)	5 points	
	All rooms daylighted	7 points	
Artificial Lighting	2008 Minimum (required)	0 points	
	Efficient Lights (25% of in-unit fixtures considered high efficacy. High efficacy is defined as 40 lumens/watt for 15 watt or less fixtures; 50 lumens/watt for 15-40 watt fixtures, 60 lumens/watt for fixtures >40watt)	9 points	
		12 points	

Feature	Description	Assigned Point Values	Project Points
	High Efficiency Lights (50% of in-unit fixtures are high efficacy) Very High Efficiency Lights (100% of in-unit fixtures are high efficacy)	14 points	
Appliances	Star Commercial Refrigerator (new) Energy Star Commercial Dish Washer (new) Energy Star Commercial Cloths Washing	4 points 4 points 4 points	
Miscellaneous Commercial/Industrial Building Efficiencies			
Building Placement	North/South alignment of building or other building placement such that the orientation of the buildings optimizes conditions for natural heating, cooling, and lighting.	6 point	
Shading	At least 90% of south-facing glazing will be shaded by vegetation or overhangs at noon on Jun 21st.	6 Points	
Other	This allows innovation by the applicant to provide design features that increases the energy efficiency of the project not provided in the table. Note that engineering data will be required documenting the energy efficiency of innovative designs and point values given based upon the proven efficiency beyond Title 24 Energy Efficiency Standards.	TBD	
Existing Commercial building Retrofits	The applicant may wish to provide energy efficiency retrofit projects to existing commercial buildings to further the point value of their project. Retrofitting existing commercial buildings within the City is a key reduction measure that is needed to reach the reduction goal. The potential for an applicant to take advantage of this program will be decided on a case by case basis and must have the approval of the City Planning Department. The decision to allow applicants to ability to participate in this program will be evaluated based upon, but not limited to the following: Will the energy efficiency retrofit project benefit low income or disadvantaged communities? Does the energy efficiency retrofit project fit within the overall assumptions in the reduction measure associated with commercial building energy efficiency retrofits? Does the energy efficiency retrofit project provide co-benefits important to the City? Point value will be determined based upon engineering and design criteria of the energy efficiency retrofit project.	TBD	

Feature	Description	Assigned Point Values	Project Points
Reduction Measure PS E4: Commercial/Industrial Renewable Energy			
Photovoltaic	Solar Photovoltaic panels installed on commercial buildings or in collective arrangements within a commercial development such that the total power provided augments: Solar Ready Roofs (sturdy roof and electric hookups) 10 percent of the power needs of the project 20 percent of the power needs of the project 30 percent of the power needs of the project 40 percent of the power needs of the project 50 percent of the power needs of the project 60 percent of the power needs of the project 70 percent of the power needs of the project 80 percent of the power needs of the project 90 percent of the power needs of the project 100 percent of the power needs of the project	2 points 8 points 14 points 20 points 26 points 32 points 38 points 44 points 50 points 56 points 60 points	
Wind turbines	Some areas of the City lend themselves to wind turbine applications. Analysis of the areas capability to support wind turbines should be evaluated prior to choosing this feature. Wind turbines as part of the commercial development such that the total power provided augments: 10 percent of the power needs of the project 20 percent of the power needs of the project 30 percent of the power needs of the project 40 percent of the power needs of the project 50 percent of the power needs of the project 60 percent of the power needs of the project 70 percent of the power needs of the project 80 percent of the power needs of the project 90 percent of the power needs of the project 100 percent of the power needs of the project	8 points 14 points 20 points 26 points 32 points 38 points 44 points 50 points 56 points 60 points	
Off-site renewable energy project	The applicant may submit a proposal to supply an off-site renewable energy project such as renewable energy retrofits of existing commercial/industrial that will help implement reduction measures associated with existing buildings. These off-site renewable energy retrofit project proposals will be determined on a case by case basis accompanied by a detailed plan documenting the quantity of renewable energy the proposal will generate. Point values will be based upon the energy generated by the proposal.	TBD	

Feature	Description	Assigned Point Values	Project Points
Other Renewable Energy Generation	The applicant may have innovative designs or unique site circumstances (such as geothermal) that allow the project to generate electricity from renewable energy not provided in the table. The ability to supply other renewable energy and the point values allowed will be decided based upon engineering data documenting the ability to generate electricity.	TBD	
Reduction Measure PS W2: Commercial/Industrial Water Conservation			
Irrigation and Landscaping			
Water Efficient Landscaping	Eliminate conventional turf from landscaping Only moderate water using plants Only low water using plants Only California Native landscape that requires no or only supplemental irrigation	0 points 3 points 4 points 8 points	
Trees	Increase tree planting in parking areas 50% beyond City Code requirements	TBD	
Water Efficient irrigation systems	Low precipitation spray heads< .75"/hr or drip irrigation Weather based irrigation control systems combined with drip irrigation (demonstrate 20 reduced water use)	1 point 5 points	
Recycled Water	Recycled water connection (purple pipe)to irrigation system on site	5 points	
Storm water Reuse Systems	Innovative on-site stormwater collection, filtration and reuse systems are being developed that provide supplemental irrigation water and provide vector control. These systems can greatly reduce the irrigation needs of a project. Point values for these types of systems will be determined based upon design and engineering data documenting the water savings.	TBD	
Potable Water			
Showers	Water Efficient Showerheads (2.0 gpm)	3 points	
Toilets	Water Efficient Toilets/Urinals (1.5gpm) Waterless Urinals (note that commercial buildings having both waterless urinals and high efficiency toilets will have a combined point value of 6 points)	3 points 4 points	
Faucets	Water Efficient faucets (1.28gpm)	3 points	
Commercial Dishwashers	Water Efficient dishwashers (20% water savings)	4 points	
Commercial Laundry Washers	Water Efficient laundry (15% water savings) High Efficiency laundry Equipment that captures and reuses rinse water (30% water savings)	3 points 6 points	

Feature	Description	Assigned Point Values	Project Points
Commercial Water Operations Program	Establish an operational program to reduce water loss from pools, water features, etc., by covering pools, adjusting fountain operational hours, and using water treatment to reduce draw down and replacement of water. Point values for these types of plans will be determined based upon design and engineering data documenting the water savings.	TBD	
Reduction Measure PS T1: Land Use Based Trips and VMT Reduction			
Mixed Use	Mixes of land uses that complement one another in a way that reduces the need for vehicle trips can greatly reduce GHG emissions. The point value of mixed use projects will be determined based upon traffic studies that demonstrate trip reductions and/or reductions in vehicle miles traveled	TBD	
Local Retail Near Residential (Commercial only Projects)	Having residential developments within walking and biking distance of local retail helps to reduce vehicle trips and/or vehicle miles traveled. The point value of residential projects in close proximity to local retail will be determined based upon traffic studies that demonstrate trip reductions and/or reductions in vehicle miles traveled	TBD	
Reduction Measure PS T2: Bicycle Infrastructure			
Bicycle Infrastructure	Provide bicycle paths within project boundaries. Provide bicycle path linkages between project site and other land uses. Provide bicycle path linkages between project site and transit.	TBD 2 points 5 points	
Reduction Measure PS T3: Electric Vehicle Infrastructure			
Electric Vehicles	Provide public charging station for use by an electric vehicle (ten points for each charging station within the facility).	10 points	
Reduction Measure PS T4: Employee Based Trip &VMT Reduction Policy			
Compressed Work Week	Reduce the number of days per week that employees need to be on site will reduce the number of vehicle trips associated with commercial/industrial development. Compressed work week such that full time employees are on site: 5 days per week 4 days per week on site 3 days per week on site	TBD	
Car/Vanpools	Car/vanpool program Car/vanpool program with preferred parking Car/vanpool with guaranteed ride home program Subsidized employee incentive car/vanpool program Combination of all the above	TBD	

Feature	Description	Assigned Point Values	Project Points
Employee Bicycle/ Pedestrian Programs	Complete sidewalk to residential within ½ mile Complete bike path to residential within 3 miles Bike lockers and secure racks Showers and changing facilities Subsidized employee walk/bike program (Note combine all applicable points for total value)	TBD	
Shuttle/Transit Programs	Local transit within ¼ mile Light rail transit within ½ mile Shuttle service to light rail transit station Guaranteed ride home program Subsidized Transit passes Note combine all applicable points for total value	TBD	
CRT	Employer based Commute Trip Reduction (CRT). CRTs apply to commercial, offices, or industrial projects that include a reduction of vehicle trip or VMT goal using a variety of employee commutes trip reduction methods. The point value will be determined based upon a TIA that demonstrates the trip/VMT reductions. Suggested point ranges: Incentive based CRT Programs (1-8 points) Mandatory CRT programs (5-20 points)	TBD	
Other Trip Reductions	Other trip or VMT reduction measures not listed above with TIA and/or other traffic data supporting the trip and/or VMT for the project.	TBD	
Total Points from Commercial/Industrial Project:			

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