Appendix B
Air Quality Technical Report

Air Quality Technical Report

for the

East Otay Mesa Specific Plan Amendment

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Glossary of Terms and Acronyms

APCD	Air Pollution Control District
ARB	California Air Resources Board
CAA	Clean Air Act (Federal)
CAAQS	California Ambient Air Quality Standard
CALINE4	California Line Source Dispersion Model (Version 4)
Caltrans	California Department of Transportation
CCAA	California Clean Air Act
CO	Carbon Monoxide
EPA	United States Environmental Protection Agency
H_2S	Hydrogen Sulfide
mg/m^3	Milligrams per Cubic Meter
$\mu g/m^3$	Micrograms per Cubic Meter
NAAQS	National Ambient Air Quality Standard
NOx	Oxides of Nitrogen
NO_2	Nitrogen Dioxide
O_3	Ozone
$PM_{2.5}$	Fine Particulate Matter (particulate matter with an aerodynamic diameter of 2.5 microns or less
PM_{10}	Respirable Particulate Matter (particulate matter with an aerodynamic diameter of 10 microns or less
ppm	Parts per million
RAQS	San Diego County Regional Air Quality Strategy
ROCs	Reactive Organic Compounds
ROG	Reactive Organic Gases
SANDAG	San Diego Association of Governments
SDAB	San Diego Air Basin
SDAPCD	San Diego County Air Pollution Control District
SIP	State Implementation Plan
SOx	Oxides of Sulfur
SO_2	Sulfur Dioxide
TACs	Toxic Air Contaminants
T-BACT	Toxics Best Available Control Technology
VOCs	Volatile Organic Compounds

EXECUTIVE SUMMARY

This report presents an assessment of potential air quality impacts associated with the East Otay Mesa Specific Plan Amendment in the County of San Diego. The proposed *Sunroad – East Otay Mesa Specific Plan Amendment* project site is located within the East Otay Mesa Business Park Specific Plan (EOMSP) area and encompasses 253.13 acres of the 3,012.7-acre Specific Plan area, including 218.12 acres of lot area and 35.01 acres of right-of-way area. The EOMSP area is located in the unincorporated portion of southern San Diego County, within the Otay Subregional Plan area. The undeveloped Project site is generally east of State Route 125 (SR-125), north of Otay Mesa Road, west of Vann Centre Boulevard, and south of Zinser Road. The site includes nine individual parcels with the following Assessor's Parcel Numbers (APNs): 646-240-30, 646-310-17, 646-080-26, -27, -28, -29, -31, -32, and -33.

The Project proposes a Specific Plan Amendment (SPA) to the EOMSP to establish a new Mixed-Use Village Core area, which would allow for the establishment of a mix of employment, retail, and residential uses. Approval of the project would allow for the entitlement of a maximum of 3,158 dwelling units, 78,000 square feet of general commercial uses, and 765,000 square feet of employment uses, and approximately 51.3 acres of permanent biological open space.

The proposed Project would include construction of public streets within the Project boundary, including Sunroad Boulevard, Sunroad View Drive, Alejandro Drive, and extensions of Harvest Road and David Ridge Drive. All public Project roadways would include Class 2 bike lanes. Project roadways would be developed as a 4-lane Major Road (Sunroad Boulevard: Lone Star Road to Otay Mesa Road), 4-lane Collectors (Harvest Road: Sunroad Boulevard to Otay Mesa Road, Vann Centre Boulevard: Otay Mesa Road to Lone Star Road, and Zinser Road: west of Sunroad Boulevard), and 2-lane Collectors (David Ridge Drive: Sunroad Boulevard to Alta Road, and Zinser Road: Sunroad Boulevard to Lone Star Road).

The proposed Project would construct off-site half-width improvements to Vann Center Boulevard from Otay Mesa Road to just south of Lone Star Road, and to Zinser Road from west of Sunroad Boulevard to Alejandro Drive. Vann Center Boulevard connects to the Project roadways at David

Ridge Drive and Otay Mesa Road. Zinser Road connects to Project roadways at Sunroad Boulevard and Alejandro Drive.

The Project would require the extension of utility lines including sewer, water, electric, and gas lines. Sewer lines would be provided within all Project roadways (Sunroad Boulevard, Harvest Road, Alejandro Drive, Sunroad View Drive, and David Ridge Drive), as well as the portions of off-site roadways within the Project footprint (Zinser Road, Lone Star Road, Vann Center Road, and Otay Mesa Road). The existing south sewer main connection is located adjacent to the Project site at the intersection of Harvest Road and Otay Mesa Road. The Project would connect to the existing 12-inch sewer main at this location. The existing northern sewer main is located near the SR-125 right-of-way, and the Project would extend a 12-inch sewer connection within Zinser Road approximately 1,800 linear feet to connect with the existing 18-inch sewer main.

Water service would be provided by the Otay Water District. The existing main water supply for the Project site is a 24-inch main located within Otay Mesa Road along the Project's southern boundary. Water supply for the Project would be delivered through a 12-inch conveyance system.

Electric lines would be provided by SDG&E within all Project roadways (Sunroad Boulevard, Harvest Road, Alejandro Drive, Sunroad View Drive, and David Ridge Drive), as well as the portions of off-site roadways within the Project footprint (Zinser Road, Lone Star Road, Vann Center Road, and Otay Mesa Road). Connection for the system is anticipated to be within the existing SDG&E easement that runs north and south through the Project site near Harvest Road.

Gas lines would be provided by SDG&E within all Project roadways (Sunroad Boulevard, Harvest Road, Alejandro Drive, Sunroad View Drive, and David Ridge Drive), as well as the portions of off-site roadways within the Project footprint (Zinser Road, Lone Star Road, Vann Center Road). Connection for the gas system is anticipated to be within Otay Mesa Road adjacent to the Project where facilities exist for that purpose.

The Project would not require off-site improvements for stormwater conveyance. Two 60-inch reinforced concrete pipes (RCPs) located in Otay Mesa Road west of Sunroad Boulevard receive

runoff from the majority of the on-site systems, conveying stormwater from the Project site and public roads. Storm drains would be constructed within on-site roadways and Zinser Road to convey stormwater to the existing natural drainage. A portion of the stormwater runoff from Vann Center Road would be treated within a bioretention basin/easement on the adjacent property east of the Project site.

The Project includes a trail segment that would occur in the north-central portion of the Project site, providing pedestrian connectivity along the off-site portion of Zinser Road between the Project's proposed mixed-use neighborhood in the central portion of the site and open space element in the northeastern portion of the site. The project site is located generally at the northeastern corner of Otay Mesa Road and Harvest Road/SR-125 in the Otay Community Planning area, within unincorporated San Diego County. The site is subject to the County's General Plan Regional Category *Village* and General Plan Land Use Designation *Specific Plan Area*. The project area is assigned S-88 Zoning, and is governed by the East Otay Mesa Business Park Specific Plan. The Specific Plan further designates the site as Technology Business Park. The Technology Business Park Land Use Designation is intended for development of manufacturing options and business offices that research, develop, and produce advanced technologies.

In order to establish consistency with the County's General Plan and the East Otay Mesa Business Park Specific Plan, the project would create a new mixed-use land use designation allowing for a mix of residential, employment, and retail uses. This new designation is consistent with the General Plan's Thriving Communities goals. The project would include a range of densities and a mix of uses across the planning area as indicated by the new designation and is anticipated to create a catalyst for development within East Otay Mesa. The maximum numbers of residential units will be based upon the approved peak hour traffic volumes and is anticipated to be approximately 3,158 residential units. The amount of development will be limited based on the total amount of trips that would be generated under the current Specific Plan. Thus the project will not exceed the number of trips evaluated under the prior Environmental Impact Report for the site.

This analysis addresses potential impacts from both the construction and operational phases of the project. To reduce the construction emissions to the extent feasible, fugitive dust control measures

will be implemented during construction. Measures that are incorporated into the project description to reduce emissions associated with construction include the following:

- Application of water three times daily during grading on active grading sites
- Reduce speeds to 15 mph on unpaved roads
- Use architectural coatings with a VOC content of 100 g/l or less for exterior coatings and 50 g/l for interior coatings
- Require the construction fleet to use any combination of catalytic converters, diesel oxidation catalysts, diesel particulate filters, and/or ARB certified Tier III or IV equipment.

These measures constitute best management practices for dust control, architectural coatings, diesel particulate matter, and construction equipment emissions.

The proposed project would result in emissions of air pollutants for both the construction phase and operational phase of the project. Construction emissions would include emissions associated with fugitive dust, heavy construction equipment and construction workers commuting to and from the site. Emissions of criteria pollutants during construction would be below the screening-level thresholds.

The main operational impacts associated with the Project would include impacts associated with traffic; with additional impacts associated with area sources such as energy use and landscaping. Emissions of VOC, NOx, PM_{10} and $PM_{2.5}$ would exceed the County's screening-level thresholds, and would therefore result in a significant impact. This impact would also be cumulatively considerable. There are no mitigation measures that would reduce this impact to less than significant levels.

A health risk assessment was conducted to evaluate the potential for project construction or operations to result in a significant impact to nearby sensitive receptors. The risk assessment focused on diesel particulate matter, which is the main TAC emitted from vehicles. The risk assessment concluded that risks were less than significant.

An evaluation of odors indicated that odor impacts would be less than significant.

1.0 INTRODUCTION

This report presents an assessment of potential air quality impacts associated with the East Otay Mesa Specific Plan Amendment in the County of San Diego. The proposed *Sunroad – East Otay Mesa Specific Plan Amendment* project site is located within the East Otay Mesa Business Park Specific Plan (EOMSP) area and encompasses 253.13 acres of the 3,012.7-acre Specific Plan area, including 218.12 acres of lot area and 35.01 acres of right-of-way area. The EOMSP area is located in the unincorporated portion of southern San Diego County, within the Otay Subregional Plan area. The undeveloped Project site is generally east of State Route 125 (SR-125), north of Otay Mesa Road, west of Vann Centre Boulevard, and south of Zinser Road. The site includes nine individual parcels with the following Assessor's Parcel Numbers (APNs): 646-240-30, 646-310-17, 646-080-26, -27, -28, -29, -31, -32, and -33.

The Project site was approved for development in 2012 to subdivide the site into 55 lots. Tentative Map 5538 (TM 5538) consisted of 52 technology business park lots ranging in size from 1.8 acres to 5.3 acres, one lot for a sewer pump station, one storm water detention lot, and a 51.3-acre dedicated open space lot. A 0.41-acre lot within the subdivision is identified as an open space easement established for the protection of biological resources (vernal pools).

Proposed Project

The Project proposes a Specific Plan Amendment (SPA) to the EOMSP to establish a new Mixed-Use Village Core area, which would allow for the establishment of a mix of employment, retail, and residential uses. Approval of the project would allow for the entitlement of a maximum of 3,158 dwelling units, 78,000 square feet of general commercial uses, and 765,000 square feet of employment uses, and approximately 51.3 acres of permanent biological open space.

The proposed Project would include construction of public streets within the Project boundary, including Sunroad Boulevard, Sunroad View Drive, Alejandro Drive, and extensions of Harvest Road and David Ridge Drive. All public Project roadways would include Class 2 bike lanes. Project roadways would be developed as a 4-lane Major Road (Sunroad Boulevard: Lone Star

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The Project would not require off-site improvements for stormwater conveyance. Two 60-inch reinforced concrete pipes (RCPs) located in Otay Mesa Road west of Sunroad Boulevard receive runoff from the majority of the on-site systems, conveying stormwater from the Project site and public roads. Storm drains would be constructed within on-site roadways and Zinser Road to convey stormwater to the existing natural drainage. A portion of the stormwater runoff from Vann Center Road would be treated within a bioretention basin/easement on the adjacent property east of the Project site.

The Project includes a trail segment that would occur in the north-central portion of the Project site, providing pedestrian connectivity along the off-site portion of Zinser Road between the Project's proposed mixed-use neighborhood in the central portion of the site and open space element in the northeastern portion of the site.

Discretionary Actions

Specific Plan Amendment – The Specific Plan Amendment proposes to add a new mixed-use land use designation that would allow for a mix of residential, employment, and retail uses for the approximately 253-acre Project area. The mixed-use Designation would include a range of densities and a mix of uses across the Project area.

Subregional Plan Amendment – In addition to the Specific Plan Amendment, the Project would require an Amendment to the Otay Subregional Plan. The Project site is governed by the Otay Subregional Plan (Volume 1). The focus of the Subregional Plan is to promote industrial development in the Otay Mesa/International Border area with the Mexico region, and the plan describes the EOMSP as the planning framework for development in East Otay Mesa. The Project

proposes to amend the Otay Subregional Plan in order to allow residential mixed-uses that will support the development of industrial uses in the area by providing live/work and commercial service opportunities.

Rezone – The Project site is zoned Specific Plan Area (S-88) with Technology Business Park and Commercial Overlay land use designations. The Project proposes to retain the S-88 zoning designation, but would change the land use designation and the regulatory site standards within the Specific Plan to Mixed-Use, to allow for development of the project site as a Village Core. The new land use designation consists of regulatory site standards specific to the use, and as described in Table 3.2-1 of the Specific Plan. The County requires a Rezone when any of the regulatory site standards are changed.

Tentative Map – The Project site was approved for development in 2012 to subdivide the site into 55 lots. Tentative Map 5538 (TM 5538) consisted of 52 technology business park lots ranging in size from 1.8 acres to 5.3 acres, one lot for a sewer pump station, one storm water detention lot, and a 51.3-acre dedicated open space lot. A 0.41-acre lot within the subdivision is identified as an open space easement established for the protection of biological resources (vernal pools).

The Project proposes a new Tentative Map for development of the Project site in accordance with the proposed Specific Plan Amendment. The proposed Tentative Map would subdivide the Project area. The project site is relatively flat and consists primarily of non-native vegetative grasslands. Earthwork is estimated to consist of 1,350,000 cubic yards of balanced cut and fill.

The new mixed-use land use designation is consistent with the General Plan's Thriving Communities goals. The project would include a range of densities and a mix of uses across the planning area as indicated by the new designation and is anticipated to create a catalyst for development within East Otay Mesa. The maximum numbers of residential units will be based upon the approved peak hour traffic volumes and is anticipated to be approximately 3,158 residential units.

This Air Quality Technical Report includes an evaluation of existing conditions in the project vicinity, an assessment of potential impacts associated with project construction, and an evaluation of project operational impacts.

2.0 EXISTING CONDITIONS

The project site is located in an undeveloped area that is designated for Technology Business Park uses. The area surrounding the site is designated to be developed with Technology Business Park uses to the west, north, and east. The area south of the site across Otay Mesa Road includes existing industrial land uses. There are three individual residential units located to the east of the site on Otay Mesa Road; however, these residences will be removed to make way for the Technology Business Park uses proposed for that location.

2.1 Regulatory Framework

2.1.1 Federal Regulations

Air quality is defined by ambient air concentrations of specific pollutants identified by the United States Environmental Protection Agency (EPA) to be of concern with respect to health and welfare of the general public. The EPA is responsible for enforcing the Federal Clean Air Act (CAA) of 1970 and its 1977 and 1990 Amendments. The CAA required the EPA to establish National Ambient Air Quality Standards (NAAQS), which identify concentrations of pollutants in the ambient air below which no adverse effects on the public health and welfare are anticipated. In response, the EPA established both primary and secondary standards for seven pollutants (called "criteria" pollutants). The seven pollutants regulated under the NAAQS are as follows: ozone (O_3), carbon monoxide (CO), nitrogen dioxide (NO_2), respirable particulate matter (or particulate matter with an aerodynamic diameter of 10 microns or less, PM_{10}), fine particulate matter (or particulate matter with an aerodynamic diameter of 2.5 microns or less, $PM_{2.5}$), sulfur dioxide (SO_2), and lead (Pb). Primary standards are designed to protect human health with an adequate margin of safety. Secondary standards are designed to protect property and the public welfare from air pollutants in the atmosphere. Areas that do not meet the NAAQS for a particular pollutant are considered to be "non-attainment areas" for that pollutant. The San Diego Air Basin (SDAB) has been designated a marginal non-attainment area for the 8-hour NAAQS for O_3.

The following specific descriptions of health effects for each of the criteria air pollutants associated with project construction and operations are based on EPA (EPA 2007) and the California Air Resources Board (ARB) (ARB 2005).

Ozone. O_3 is considered a photochemical oxidant, which is a chemical that is formed when reactive organic gases (ROG) and oxides of nitrogen (NOx), both by-products of combustion, react in the presence of ultraviolet light. O_3 is considered a respiratory irritant and prolonged exposure can reduce lung function, aggravate asthma and increase susceptibility to respiratory infections. Children and those with existing respiratory diseases are at greatest risk from exposure to O_3.

Carbon Monoxide. CO is a product of combustion, and the main source of CO in the SDAB is from motor vehicle exhaust. CO is an odorless, colorless gas. CO affects red blood cells in the body by binding to hemoglobin and reducing the amount of oxygen that can be carried to the body's organs and tissues. CO can cause health effects to those with cardiovascular disease, and can also affect mental alertness and vision.

Nitrogen Dioxide. NO_2 is also a by-product of fuel combustion, and is formed both directly as a product of combustion and in the atmosphere through the reaction of nitrogen oxide (NO) with oxygen. NO_2 is a respiratory irritant and may affect those with existing respiratory illness, including asthma. NO_2 can also increase the risk of respiratory illness.

Respirable Particulate Matter and Fine Particulate Matter. Respirable particulate matter, or PM_{10}, refers to particulate matter with an aerodynamic diameter of 10 microns or less. Fine particulate matter, or $PM_{2.5}$, refers to particulate matter with an aerodynamic diameter of 2.5 microns or less. Particulate matter in this size range has been determined to have the potential to lodge in the lungs and contribute to respiratory problems. PM_{10} and $PM_{2.5}$ arise from a variety of sources, including road dust, diesel exhaust, combustion, tire and brake wear, construction operations and windblown dust. PM_{10} and $PM_{2.5}$ can increase susceptibility to respiratory infections and can aggravate existing respiratory diseases such as asthma and chronic bronchitis. $PM_{2.5}$ is considered to have the potential to lodge deeper in the lungs.

Sulfur dioxide. SO_2 is a colorless, reactive gas that is produced from the burning of sulfur-containing fuels such as coal and oil, and by other industrial processes. Generally, the highest concentrations of SO_2 are found near large industrial sources. SO_2 is a respiratory irritant that can cause narrowing of the airways leading to wheezing and shortness of breath. Long-term exposure to SO_2 can cause respiratory illness and aggravate existing cardiovascular disease.

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

2.1.2 State Regulations

California Clean Air Act. The California Clean Air Act was signed into law on September 30, 1988, and became effective on January 1, 1989. The Act requires that local air districts implement regulations to reduce emissions from mobile sources through the adoption and enforcement of transportation control measures. The California Clean Air Act required the SDAB to achieve a five percent annual reduction in ozone precursor emissions from 1987 until the standards are attained. If this reduction cannot be achieved, all feasible control measures must be implemented. Furthermore, the California Clean Air Act required local air districts to implement a Best Available Control Technology rule and to require emission offsets for non-attainment pollutants.

The ARB is the state regulatory agency with authority to enforce regulations to both achieve and maintain air quality in the state. The ARB is responsible for the development, adoption, and enforcement of the state's motor vehicle emissions program, as well as the adoption of the California Ambient Air Quality Standards (CAAQS). The ARB also reviews operations and programs of the local air districts, and requires each air district with jurisdiction over a non-attainment area to develop its own strategy for achieving the NAAQS and CAAQS. The CAA allows states to adopt ambient air quality standards and other regulations provided they are at least as stringent as federal standards. The ARB has established the more stringent CAAQS for the six

criteria pollutants through the California Clean Air Act of 1988, and also has established CAAQS for additional pollutants, including sulfates, hydrogen sulfide, vinyl chloride and visibility-reducing particles. The SDAB is currently classified as a non-attainment area under the CAAQS for O_3, PM_{10}, and $PM_{2.5}$. It should be noted that the ARB does not differentiate between attainment of the 1-hour and 8-hour CAAQS for O_3; therefore, if an air basin records exceedances of either standard the area is considered a non-attainment area for the CAAQS for O_3. The SDAB has recorded exceedances of both the 1-hour and 8-hour CAAQS for O_3. The following specific descriptions of health effects for the additional California criteria air pollutants are based on the ARB (ARB 2001).

Sulfates. Sulfates are the fully oxidized ionic form of sulfur. In California, emissions of sulfur compounds occur primarily from the combustion of petroleum-derived fuels (e.g., gasoline and diesel fuel) that contain sulfur. This sulfur is oxidized to sulfur dioxide (SO_2) during the combustion process and subsequently converted to sulfate compounds in the atmosphere. The conversion of SO_2 to sulfates takes place comparatively rapidly and completely in urban areas of California due to regional meteorological features. The ARB's sulfates standard is designed to prevent aggravation of respiratory symptoms. Effects of sulfate exposure at levels above the standard include a decrease in ventilatory function, aggravation of asthmatic symptoms and an increased risk of cardio-pulmonary disease. Sulfates are particularly effective in degrading visibility, and due to fact that they are usually acidic, can harm ecosystems and damage materials and property.

Hydrogen Sulfide. H_2S is a colorless gas with the odor of rotten eggs. It is formed during bacterial decomposition of sulfur-containing organic substances. Also, it can be present in sewer gas and some natural gas, and can be emitted as the result of geothermal energy exploitation. Breathing H_2S at levels above the standard would result in exposure to a very disagreeable odor. In 1984, an ARB committee concluded that the ambient standard for H_2S is adequate to protect public health and to significantly reduce odor annoyance.

Vinyl Chloride. Vinyl chloride, a chlorinated hydrocarbon, is a colorless gas with a mild, sweet odor. Most vinyl chloride is used to make polyvinyl chloride (PVC) plastic and vinyl products.

Vinyl chloride has been detected near landfills, sewage plants and hazardous waste sites, due to microbial breakdown of chlorinated solvents. Short-term exposure to high levels of vinyl chloride in air causes central nervous system effects, such as dizziness, drowsiness and headaches. Long-term exposure to vinyl chloride through inhalation and oral exposure causes liver damage. Cancer is a major concern from exposure to vinyl chloride via inhalation. Vinyl chloride exposure has been shown to increase the risk of angiosarcoma, a rare form of liver cancer, in humans.

Visibility Reducing Particles. Visibility-reducing particles consist of suspended particulate matter, which is a complex mixture of tiny particles that consists of dry solid fragments, solid cores with liquid coatings, and small droplets of liquid. These particles vary greatly in shape, size and chemical composition, and can be made up of many different materials such as metals, soot, soil, dust, and salt. The CAAQS is intended to limit the frequency and severity of visibility impairment due to regional haze. A separate standard for visibility-reducing particles that is applicable only in the Lake Tahoe Air Basin is based on reduction in scenic quality.

Table 1 presents a summary of the ambient air quality standards adopted by the federal and California Clean Air Acts.

Table 1 Ambient Air Quality Standards						
POLLUTANT	**AVERAGE TIME**	**CALIFORNIA STANDARDS**		**NATIONAL STANDARDS**		
		Concentration	**Method**	**Primary**	**Secondary**	**Method**
Ozone (O_3)	1 hour	0.09 ppm (176 µg/m^3)	Ultraviolet Photometry	--	--	Ethylene Chemiluminescence
	8 hour	0.070 ppm (137 µg/m^3)		0.075 ppm (147 µg/m^3)	0.075 ppm (147 µg/m^3)	
Carbon Monoxide (CO)	8 hours	9.0 ppm (10 mg/m^3)	Non-Dispersive Infrared Spectroscopy (NDIR)	9 ppm (10 mg/m^3)	--	Non-Dispersive Infrared Spectroscopy (NDIR)
	1 hour	20 ppm (23 mg/m^3)		35 ppm (40 mg/m^3)		
Nitrogen Dioxide (NO_2)	Annual Average	0.030 ppm (56 µg/m^3)	Gas Phase Chemiluminescence	0.053 ppm (100 µg/m^3)	--	Gas Phase Chemiluminescence
	1 hour	0.18 ppm (338 µg/m^3)		0.100 ppm (188 µg/m^3)	--	
Sulfur Dioxide (SO_2)	24 hours	0.04 ppm (105 µg/m^3)	Ultraviolet Fluorescence	--	--	Pararosaniline
	3 hours	--		--	0.5 ppm (1300 µg/m^3)	
	1 hour	0.25 ppm (655 µg/m^3)		0.075 ppm (196 µg/m^3)	--	
Respirable Particulate Matter (PM_{10})	24 hours	50 µg/m^3	Gravimetric or Beta Attenuation	150 µg/m^3	150 µg/m^3	Inertial Separation and Gravimetric Analysis
	Annual Arithmetic Mean	20 µg/m^3		--	--	
Fine Particulate Matter ($PM_{2.5}$)	Annual Arithmetic Mean	12 µg/m^3	Gravimetric or Beta Attenuation	12 µg/m^3	15 µg/m^3	Inertial Separation and Gravimetric Analysis
	24 hours	--		35 µg/m^3	--	
Sulfates	24 hours	25 µg/m^3	Ion Chromatography	--	--	--
Lead	30-day Average	1.5 µg/m^3	Atomic Absorption	--	--	Atomic Absorption
	Calendar Quarter	--		1.5 µg/m^3	1.5 µg/m^3	
	3-Month Rolling Average	--		0.15 µg/m^3	0.15 µg/m^3	
Hydrogen Sulfide	1 hour	0.03 ppm (42 µg/m^3)	Ultraviolet Fluorescence	--	--	--
Vinyl Chloride	24 hours	0.010 ppm (26 µg/m^3)	Gas Chromatography	--	--	--

ppm= parts per million; µg/m^3 = micrograms per cubic meter ; mg/m^3= milligrams per cubic meter
Source: California Air Resources Board, www.arb.ca.gov, 2016, http://www.arb.ca.gov/research/aaqs/aaqs2.pdf

Toxic Air Contaminants. In 1983, the California Legislature enacted a program to identify the health effects of Toxic Air Contaminants (TACs) and to reduce exposure to these contaminants to protect the public health (AB 1807: Health and Safety Code sections 39650-39674). The Legislature established a two-step process to address the potential health effects from TACs. The first step is the risk assessment (or identification) phase. The second step is the risk management (or control) phase of the process.

The State of California has identified diesel particulate matter as a TAC. Diesel particulate matter is emitted from on- and off-road vehicles that utilize diesel as fuel. Following identification of diesel particulate matter as a TAC in 1998, the ARB has worked on developing strategies and regulations aimed at reducing the emissions and associated risk from diesel particulate matter. The overall strategy for achieving these reductions is found in the *Risk Reduction Plan to Reduce Particulate Matter from Diesel-Fueled Engines and Vehicles* (State of California 2000). A stated goal of the plan is to reduce the cancer risk statewide arising from exposure to diesel particulate matter by 75 percent by 2010 and by 85 percent by 2020. The *Risk Reduction Plan* contains the following three components:

- New regulatory standards for all new on-road, off-road and stationary diesel-fueled engines and vehicles to reduce diesel particulate matter emissions by about 90 percent overall from current levels;
- New retrofit requirements for existing on-road, off-road and stationary diesel-fueled engines and vehicles where determined to be technically feasible and cost-effective; and
- New Phase 2 diesel fuel regulations to reduce the sulfur content levels of diesel fuel to no more than 15 ppm to provide the quality of diesel fuel needed by the advanced diesel particulate matter emission controls.

As an ongoing process, the ARB reviews air contaminants and identifies those that are classified as TACs. The ARB also continues to establish new programs and regulations for the control of TACs, including diesel particulate matter, as appropriate.

The local air pollution control district (APCD) has the primary responsibility for the development and implementation of rules and regulations designed to attain the NAAQS and CAAQS, as well as the permitting of new or modified sources, development of air quality management plans, and adoption and enforcement of air pollution regulations. The San Diego APCD is the local agency responsible for the administration and enforcement of air quality regulations in San Diego County.

The APCD and the San Diego Association of Governments (SANDAG) are responsible for developing and implementing the clean air plan for attainment and maintenance of the ambient air quality standards in the SDAB. The San Diego County Regional Air Quality Strategy (RAQS) was initially adopted in 1991, and is updated on a triennial basis. The RAQS was updated in 1995, 1998, 2001, 2004 and most recently in 2009 (APCD 2009). The RAQS outlines APCD's plans and control measures designed to attain the state air quality standards for O_3. The RAQS does not address the state air quality standards for PM_{10} or $PM_{2.5}$. The APCD has also developed the air basin's input to the State Implementation Plan (SIP), which is required under the Federal Clean Air Act for areas that are out of attainment of air quality standards. The SIP includes the APCD's plans and control measures for attaining the O_3 NAAQS. The SIP is also updated on a triennial basis. The latest SIP update that has been approved by EPA was in 2007. The current SIP is the APCD's *Eight-Hour Ozone Attainment Plan for San Diego County* (hereinafter referred to as the Attainment Plan) (APCD 2007). The Attainment Plan forms the basis for the SIP update, as it contains documentation on emission inventories and trends, the APCD's emission control strategy, and an attainment demonstration that shows that the SDAB will meet the NAAQS for O_3. Emission inventories, projections, and trends in the Attainment Plan are based on the latest O_3 SIP planning emission projections compiled and maintained by ARB. The inventories are based on data submitted by stakeholder agencies, including SANDAG, based on growth projections in municipal General Plans.

The ARB compiles annual statewide emission inventories in its emission-related information database, the California Emission Inventory Development and Reporting System (CEIDARS). Emission projections for past and future years were generated using the California Emission Forecasting System (CEFS), developed by ARB to project emission trends and track progress towards meeting emission reduction goals and mandates. CEFS utilizes the most current growth

and emissions control data available and agreed upon by the stakeholder agencies to provide comprehensive projections of anthropogenic (human activity-related) emissions for any year from 1975 through 2030. Local air districts are responsible for compiling emissions data for all point sources and many stationary area-wide sources. For mobile sources, CEFS integrates emission estimates from ARB's EMFAC and OFFROAD models. SANDAG incorporates data regarding highway and transit projects into their Travel Demand Models for estimating and projecting vehicle miles traveled (VMT) and speed. The ARB's on-road emissions inventory in EMFAC relies on these VMT and speed estimates.

Because the ARB mobile source emission projections and SANDAG growth projections are based on population and vehicle trends and land use plans developed by the cities and by the County as part of the development of General Plans, projects that propose development that is consistent with the growth anticipated by the general plans would be consistent with the RAQS and the Attainment Plan. In the event that a project would propose development which is less dense than anticipated within the general plan, the project would likewise be consistent with the RAQS and the Attainment Plan. If a project proposes development that is greater than that anticipated in the general plan and SANDAG's growth projections, the project might be in conflict with the RAQS and SIP, and might have a potentially significant impact on air quality.

2.1.3 Local Regulations

In San Diego County, the San Diego APCD is the regulatory agency that is responsible for maintaining air quality, including implementation and enforcement of state and federal regulations. The project site is located in the County of San Diego. The County of San Diego has adopted a General Plan that includes a Conservation Element that adopts policies to reduce air emissions and improve air quality within the County.

2.2 Climate and Meteorology

The project site is located in the SDAB. The climate of the SDAB is dominated by a semi-permanent high pressure cell located over the Pacific Ocean. This cell influences the direction of prevailing winds (westerly to northwesterly) and maintains clear skies for much of the year. The high pressure cell also creates two types of temperature inversions that may act to degrade local air quality.

Subsidence inversions occur during the warmer months as descending air associated with the Pacific high pressure cell comes into contact with cool marine air. The boundary between the two layers of air creates a temperature inversion that traps pollutants. The other type of inversion, a radiation inversion, develops on winter nights when air near the ground cools by heat radiation and air aloft remains warm. The shallow inversion layer formed between these two air masses also can trap pollutants. As the pollutants become more concentrated in the atmosphere, photochemical reactions occur that produce ozone, commonly known as smog.

Figure 1 provides a graphic representation of the prevailing winds in the project vicinity, as measured in Chula Vista, which is the closest meteorological monitoring station to the site.

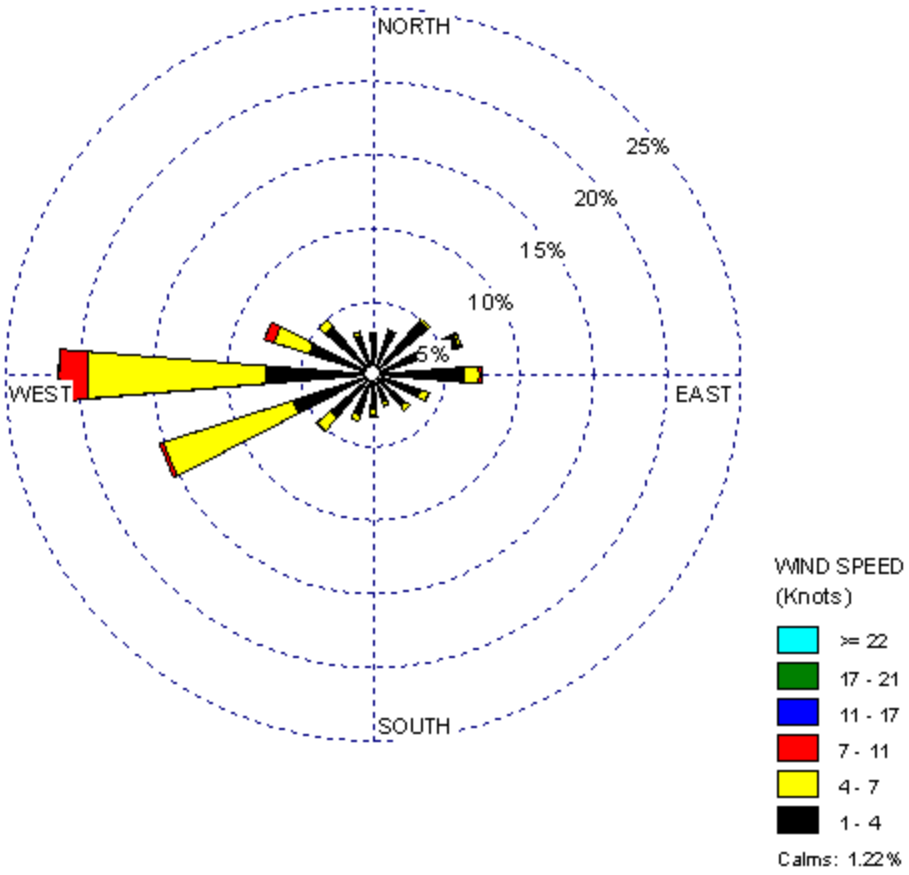


Figure 1. Wind Rose – Chula Vista

2.3 Background Air Quality

The APCD operates a network of ambient air monitoring stations throughout San Diego County. The purpose of the monitoring stations is to measure ambient concentrations of the pollutants and determine whether the ambient air quality meets the CAAQS and the NAAQS. The nearest ambient monitoring stations to the project site are the Chula Vista monitoring station on J Street in Chula Vista, the Paseo International monitoring station at the Otay Mesa border crossing, and the Donovan Correctional Facility monitoring station on Otay Mesa. Pollutant levels at the Otay Mesa border crossing are elevated because they reflect emissions from vehicles idling at the crossing. The ambient background data from the Chula Vista monitoring station for O_3, NO_2, and

$PM_{2.5}$ and the ambient background data from the Donovan monitoring station for PM_{10}, and $PM_{2.5}$ are most representative of the site. The nearest location that monitored CO was the downtown San Diego monitoring station. Ambient concentrations of pollutants over the last three years are presented in Table 2.

The 8-hour federal ozone standard was not exceeded at the Chula Vista monitoring station during the period from 2013 through 2015. The 8-hour CAAQS was exceeded once in 2014. The Chula Vista monitoring station has measured exceedances of the CAAQS for ozone, and the Donovan monitoring station has measured exceedances of the CAAQS for PM_{10} during the period from 2012 to 2014. The data from the monitoring station indicates that air quality is in attainment of all other standards.

Table 2
Ambient Background Concentrations
(ppm unless otherwise indicated)

Pollutant	Averaging Time	2013	2014	2015	Most Stringent Ambient Air Quality Standard	Monitoring Station
Ozone	8 hour	0.062	0.072	0.066	0.070	Chula Vista
	1 hour	0.073	0.093	0.088	0.09	Chula Vista
$PM_{2.5}$	Annual	9.4 µg/m^3	9.2 µg/m^3	8.3 µg/m^3	12 µg/m^3	Chula Vista
	24 hour maximum[1]	21.9 µg/m^3	26.5 µg/m^3	33.5 µg/m^3	35 µg/m^3	Chula Vista
	98th Percentile, 24 hour[1]	18.0 µg/m^3	19.3 µg/m^3	19.3 µg/m^3	35 µg/m^3	Chula Vista
PM_{10}	Annual	25.3 µg/m^3	30.1 µg/m^3	34.4 µg/m^3	20 µg/m^3	Donovan
	24 hour	65 µg/m^3	58 µg/m^3	136 µg/m^3	50 µg/m^3	Donovan
NO_2	Annual	0.011	0.011	0.010	0.030	Chula Vista
	1 hour	0.057	0.055	0.049	0.100	Chula Vista
CO	8 hour	2.1	1.9	1.9	9.0	San Diego
	1 hour	3.0	2.7	2.6	20.0	San Diego

[1]$PM_{2.5}$ 24-hour NAAQS is defined as the 98th percentile of 3 years of measurements. One exceedance does not indicate a violation of the standard.
Source: www.arb.ca.gov/aqd/aqd.htm; http://www.sdapcd.org/info/reports/5-year-summary.pdf.

3.0 SIGNIFICANCE CRITERIA AND ANALYSIS METHODOLOGIES

The County of San Diego (County of San Diego 2007) has approved guidelines for determining significance based on Appendix G.III of the State CEQA Guidelines. Section 4.0 of the County of San Diego Department of Planning and Land Use *Guidelines for Determining Significance and Report Format and Content Requirements – Air Quality* (County of San Diego 2007) provides guidance that a project would have a significant environmental impact if:

1. The project will conflict with or obstruct the implementation of the San Diego Regional Air Quality Strategy (RAQS) and/or applicable portions of the State Implementation Plan (SIP).
2. The project would result in emissions that would violate any air quality standard or contribute substantially to an existing or projected air quality violation.
3. The project will result in a cumulatively considerable net increase of any criteria pollutant for which the San Diego Air Basin is non-attainment under an applicable Federal or State Ambient Air Quality Standard (including emissions which exceed the SLTs for ozone precursors listed in Table 5 of the Guidelines).
4. The project will expose sensitive receptors to substantial pollutant concentrations.
5. The project which is not an agricultural, commercial or an industrial activity subject to SDAPCD standards, as a result of implementation, will either generate objectionable odors or place sensitive receptors next to existing objectionable odors, which will affect a considerable number of persons or the public.

The County of San Diego recognizes the APCD's established screening level thresholds for air quality emissions (Rules 20.1 et seq.) as screening-level thresholds for land development projects. As stated above, projects that propose development that is consistent with the growth anticipated by the general plans and SANDAG's growth forecasts would be consistent with the RAQS and SIP. Also, projects that are consistent with the SIP rules (i.e., the federally-approved rules and regulations adopted by the APCD) are consistent with the SIP. Thus projects would be required to conform with measures adopted in the RAQS (including use of low-VOC architectural coatings, use of low-NO_x water heaters, and compliance with rules and regulations governing stationary

sources) and would also be required to comply with all applicable rules and regulations adopted by the APCD.

To determine whether a project would (a) result in emissions that would violate any air quality standard or contribute substantially to an existing or projected air quality violation; or (b) result in a cumulatively considerable net increase of PM_{10} or $PM_{2.5}$ or exceed quantitative thresholds for O_3 precursors, oxides of nitrogen (NO_X) and volatile organic compounds (VOCs), project emissions may be evaluated based on the quantitative emission thresholds established by the San Diego APCD. As part of its air quality permitting process, the APCD has established thresholds in Rule 20.2 for the preparation of Air Quality Impact Assessments (AQIA). The County of San Diego also recommends the SCAQMD's screening threshold of 55 pounds per day or 10 tons per year as a significance threshold for $PM_{2.5}$.

For CEQA purposes, these screening criteria can be used as numeric methods to demonstrate that a project's total emissions would not result in a significant impact to air quality. The screening thresholds are included in the table below.

Table 3 Screening-Level Thresholds for Air Quality Impact Analysis			
Pollutant	Total Emissions		
Construction Emissions			
	Lb. per Day		
Respirable Particulate Matter (PM_{10})	100		
Fine Particulate Matter ($PM_{2.5}$)	55		
Oxides of Nitrogen (NOx)	250		
Oxides of Sulfur (SOx)	250		
Carbon Monoxide (CO)	550		
Volatile Organic Compounds (VOCs)[1]	75		
Operational Emissions			
	Lb. Per Hour	Lb. per Day	Tons per Year
Respirable Particulate Matter (PM_{10})	---	100	15
Fine Particulate Matter ($PM_{2.5}$)	---	55	10
Oxides of Nitrogen (NOx)	25	250	40
Oxides of Sulfur (SOx)	25	250	40
Carbon Monoxide (CO)	100	550	100
Lead and Lead Compounds	---	3.2	0.6
Volatile Organic Compounds (VOC)	---	75	13.7
Toxic Air Contaminant Emissions			
Excess Cancer Risk	1 in 1 million without Toxics Best Available Control Technology (T-BACT) 10 in 1 million with T-BACT		
Non-Cancer Hazard	1.0		

In the event that emissions exceed these screening-level thresholds, modeling would be required to demonstrate that the project's total air quality impacts result in ground-level concentrations that are below the State and Federal Ambient Air Quality Standards, including appropriate background levels. For nonattainment pollutants (ozone, with ozone precursors NOx and VOCs, $PM_{2.5}$ and PM_{10}), if emissions exceed the thresholds shown in Table 3, the project could have the potential to result in a cumulatively considerable net increase in these pollutants and thus could have a significant impact on the ambient air quality.

In addition to impacts from criteria pollutants, project impacts may include emissions of pollutants identified by the state and federal government as toxic air contaminants (TACs) or Hazardous Air Pollutants (HAPs). In San Diego County, the County Planning & Development Services department identifies an excess cancer risk level of 1 in 1 million or less for projects that do not

implement Toxics Best Available Control Technology (T-BACT), and an excess cancer risk level of 10 in 1 million or less for projects that do implement T-BACT. The significance threshold for non-cancer health effects is a health hazard index of one or less. These significance thresholds are consistent with the San Diego Air Pollution Control District's Rule 1210 requirements for stationary sources. If a project has the potential to result in emissions of any TAC or HAP which result in a cancer risk of greater than 1 in 1 million without T-BACT, 10 in 1 million with T-BACT, or health hazard index of one or more, the project would be deemed to have a potentially significant impact.

With regard to evaluating whether a project would have a significant impact on sensitive receptors, air quality regulators typically define sensitive receptors as residences, schools (Preschool-12th Grade), hospitals, resident care facilities, or day-care centers, or other facilities that may house individuals with health conditions that would be adversely impacted by changes in air quality. Any project which has the potential to directly impact a sensitive receptor located within 1 mile and results in a health risk greater than the risk significance thresholds discussed above would be deemed to have a potentially significant impact. One mile was chosen as a conservative means of evaluating significance. As discussed in the SCAQMD's CEQA Air Quality Handbook, if there is an industrial source within a quarter mile of a sensitive receptor, planners should review the potential for toxic impacts. Therefore, use of a one mile radius is conservative.

APCD Rule 51 (Public Nuisance) also prohibits emission of any material which causes nuisance to a considerable number of persons or endangers the comfort, health or safety of any person. A project that proposes a use which would produce objectionable odors would be deemed to have a significant odor impact if it would affect a considerable number of offsite receptors.

The impacts associated with construction and operation of the project were evaluated for significance based on these significance criteria.

4.0 PROJECT IMPACT ANALYSIS

The proposed East Otay Mesa Specific Plan Amendment includes both construction and operational impacts. Construction impacts include emissions associated with the construction of the project. Operational impacts include emissions associated with the project, including traffic, at full buildout. It should be noted that specific land uses are not identified at this time; therefore, this analysis presents an evaluation of impacts associated with preliminary site development, and a preliminary evaluation of impacts associated with full buildout and operation of the project. Because each phase of the project will be required to undergo a design review, when phases are more fully designed, they will undergo further environmental review prior to permitting. In other words, each phase of development would undergo a separate site plan review, and if additional environmental review is necessary, will undergo a CEQA review in which potential air quality impacts will be further evaluated. The purpose of this analysis is to provide a program-level analysis of potential impacts for the entire Specific Plan Amendment.

4.1 Conformance to the Regional Air Quality Strategy

4.1.1 Guidelines for the Determination of Significance

The project will result in a significant impact to air quality if:

The project will conflict with or obstruct the implementation of the San Diego Regional Air Quality Strategy (RAQS) and/or applicable portions of the State Implementation Plan (SIP).

The RAQS outlines APCD's plans and control measures designed to attain the State air quality standards for ozone. In addition, the APCD relies on the SIP, which includes the APCD's plans and control measures for attaining the ozone NAAQS. These plans accommodate emissions from all sources, including natural sources, through implementation of control measures, where feasible, on stationary sources to attain the standards. Mobile sources are regulated by the USEPA and the ARB, and the emissions and reduction strategies related to mobile sources are considered in the RAQS and SIP.

The RAQS relies on information from ARB and SANDAG, including projected growth in the County, mobile, area and all other source emissions in order to project future emissions and determine from that the strategies necessary for the reduction of stationary source emissions through regulatory controls. The ARB mobile source emission projections and SANDAG growth projections are based on population and vehicle trends and land use plans developed by the cities and by the County. As such, projects that propose development that is consistent with the growth anticipated by the general plans would be consistent with the RAQS. In the event that a project would propose development which is less dense than anticipated within the general plan, the project would likewise be consistent with the RAQS. If a project proposes development that is greater than that anticipated in the County of San Diego General Plan and SANDAG's growth projections, the project would be in conflict with the RAQS and SIP, and might have a potentially significant impact on air quality. This situation would warrant further analysis to determine if the proposed project and the surrounding projects exceed the growth projections used in the RAQS for the specific subregional area.

4.1.2 Significance of Impacts Prior to Mitigation

The project is proposing a rezone to establish a new mixed-use land use category within the East Otay Mesa Specific Plan. The new land use categories would allow for employment, retail, and residential uses within the area. The project will provide a mix of uses at the site that will serve the Otay Mesa area, and will allow for residential uses at the site.

The Otay Subregional Plan did not address residential uses at the site; therefore, the project is required to revise the Subregional Plan to allow residential uses, which triggers a General Plan Amendment. However, the project is consistent with the intensity scale in the General Plan and would not result in additional vehicle trips above the levels anticipated in the General Plan. The project would therefore not differ from the analysis included within the RAQS and SIP to demonstrate attainment.

Providing a mix of uses at the site that include residential, retail, and commercial/industrial uses would serve to reduce vehicle miles traveled overall in the County. The project is consistent with the County General Plan's Thriving Communities goals. The purpose of the development is to provide residential uses in the area. The current zoning would require workers to travel longer distances rather than providing the opportunity to live and work in the community. While this reduction in distance cannot be quantified, part of the goal of providing these uses at the site is to provide local residential uses in the Otay Mesa area.

As part of its attainment planning process, the San Diego Air Pollution Control District proposes and adopts Rules and Regulations to control air pollutants to demonstrate further progress toward attainment as part of the RAQS and SIP. The Project also will comply with any applicable rules and regulations that have been adopted as part of the RAQS and SIP by the San Diego Air Pollution Control District.

The project is proposing a Specific Plan Amendment that is consistent with the County's General Plan for Village Development. The Village category identifies areas where a higher intensity and a wide range of land uses are established or have been planned. Ideally, a Village would reflect a development pattern that is characterized as compact, higher density development that is located within walking distance of commercial services, employment centers, civic uses, and transit (when feasible). The project will provide local residential, employment, and commercial uses in an existing employment center. Through providing local residential uses, the project will serve to reduce the vehicle miles traveled within the region. Because the project is proposing development that is consistent with the density within the General Plan and would not allow additional vehicle trips, the project would not conflict with or obstruct implementation of the RAQS or SIP.

4.1.3 Design Considerations

Because the project would not conflict with or obstruct implementation of the RAQS and SIP, no mitigation is required.

4.1.4 Conclusions

As discussed above, the project is proposing a rezone to allow residential uses at the site. The project would, however, be consistent with the density within the General Plan and would not allow additional vehicle trips. The planned land use change would meet the County's requirements for constructing mixed-use developments, which would reduce, rather than increase, vehicle miles traveled. The project will process a Specific Plan Amendment and zoning change. For these reasons, the project will be consistent with the allowable land use at the site and would not conflict with or obstruct implementation of the RAQS or SIP, the impacts are less than significant.

4.2 Conformance to Federal and State Ambient Air Quality Standards

The project will result in a significant impact to air quality if:

The project would result in emissions that would violate any air quality standard or contribute substantially to an existing or projected air quality violation.
The project will result in emissions that exceed 250 pounds per day of NOx, or 75 pounds per day of VOCs.
The project will result in emissions of carbon monoxide that when totaled with the ambient concentrations will exceed a 1-hour concentration of 20 parts per million (ppm) or an 8-hour average of 9 ppm.
The project will result in emissions of $PM_{2.5}$ that will exceed 55 pounds per day.
The project will result in emissions of PM_{10} that exceed 100 pounds per day and increase the ambient PM_{10} concentration by 5 micrograms per cubic meter (5.0 $\mu g/m^3$) or greater at the maximum exposed individual.

4.2.1 Construction Impacts

4.2.1.1 Guidelines for the Determination of Significance

Based on the County of San Diego Guidelines (County of San Diego 2007), construction impacts would be potentially significant if they exceed the quantitative screening-level thresholds for

attainment pollutants (NO_2, SO_2, and CO), and would result in a significant impact if they exceed the screening-level thresholds for nonattainment pollutants (ozone precursors and particulate matter).

4.2.1.2 Significance of Impacts Prior to Mitigation

A specific schedule for project construction is not known at this time. It was assumed that the project could be built out over a period of 15 years starting in 2018, with project buildout complete in 2032. Emissions from the construction phase of the project were estimated using the CalEEMod Model, Version 2013.2.2 (ENVIRON 2013). Project grading would be completed in a single phase prior to commencement of construction of buildings; grading would not be conducted for each phase separately. It is estimated that grading will involve a total of 1,350,000 cubic yards of earthmoving, with the cut and fill balanced on site. Accordingly, transport distances were reduced within the CalEEMod model to 0.5 miles. Infrastructure will be constructed at each site development phase and has been included in the CalEEMod modeling analysis under building construction and paving; equipment used within the analysis includes backhoe/loaders that would be used to install infrastructure and utilities as well as paving.

CalEEMod relies on the total area of the site and estimates site disturbance based on the maximum acres that can be graded given the construction equipment input in an 8-hour day. To account for standard dust control measures within the CalEEMod Model, it was assumed that watering three times day would reduce particulate matter emissions by 61%, and that speeds on unpaved surfaces would be reduced to 15 mph. No other mitigation measures were taken into account in the model.

Architectural coatings would be required to meet the requirements of SDAPCD Rule 67.0.1, which was adopted in June 2015 and will go into effect on January 1, 2016. Rule 67.0.1 limits VOC content to 100 g/l for exterior paints and 50 g/l for interior paints. This rule was taken into account in the CalEEMod Model. It was also assumed, based on County T-BACT requirements, that all Tier 3 equipment would be used during construction.

Table 4 provides a summary of the assumed construction phases for project construction. Table 5 presents a summary of the maximum daily emission estimates for construction of the East Otay Mesa Specific Plan Amendment. Refer to Attachment A for detailed CalEEMod Model outputs.

Table 4[1] Assumed Construction Schedule											
Project Element	**2018**	**2019**	**2020**	**2021**	**2022**	**2023**	**2024**	**2025**	**2026**	**2027**	**TOTAL**
Technology Park (square feet)		95,625	95,625	95,625	95,625	95,625	95,625	95,625	47,813	47,812	765,000 sq. ft.
Residential (units)	875	697	337	837	312	100					3,158 units
Retail (square feet)						78,000					78,000 sq. ft.
Park (acres)	8	10		9							27 acres

[1]This table provides an assumed phasing for the purpose of the air quality analysis to address emissions from construction on a programmatic level. Emissions are calculated and disclosed on this basis.

Table 5 Maximum Daily Construction Emissions by Construction Year						
Construction Year/Phase	**VOC (lbs/day)**	**NO_X (lbs/day)**	**CO (lbs/day)**	**SO_2 (lbs/day)**	**PM_{10} (lbs/day)**	**$PM_{2.5}$ (lbs/day)**
Site Preparation (2016)	5.14	54.71	41.91	0.05	10.75	6.68
Grading (2016)	19.11	179.41	183.22	0.16	16.05	11.36
Total 2016	24.25	234.12	225.13	0.21	26.80	18.04
Grading (2017)	17.93	167.23	174.58	0.16	15.40	10.82
2018	73.86	58.67	108.63	0.22	11.78	5.29
2019	70.55	59.70	106.54	0.22	11.49	5.30
2020	27.52	46.29	72.54	0.13	6.01	3.55
2021	76.95	56.72	105.48	0.23	12.31	5.49
2022	26.25	48.53	74.70	0.14	6.01	3.70
2023	16.60	47.52	69.16	0.12	4.69	3.36
2024	6.54	44.66	61.50	0.10	3.46	2.94
2025	6.53	44.65	61.39	0.10	3.46	2.94
2026	4.32	44.30	60.15	0.09	3.20	2.87
2027	4.32	44.29	60.10	0.09	3.20	2.87
Maximum Daily Emissions	76.95	234.12	225.13	0.22	26.80	18.04
Screening Level Thresholds (SLT)	75	250	550	250	100	55
Significant Impact?	Yes	No	No	No	No	No

As shown in Table 5, with implementation of dust control measures (watering three times daily, cleaning paved roads, and reducing speeds on unpaved surfaced to 15 mph), the maximum simultaneous emissions are below the screening-level thresholds for all criteria pollutants except VOCs, which are above the threshold in 2021.

4.2.1.3 Design Considerations

Project construction would employ dust control measures to reduce impacts as feasible. Dust control measures would include watering the site at least three times daily during active grading, and reducing vehicle speeds on unpaved surfaces to 15 mph, and cleaning paved roads, which was assumed to be 25% effective in reducing PM emissions (SCAQMD 1999). In addition, the project would utilize low-VOC coatings in accordance with APCD Rule 67.0.1 requirements. The project

would reduce emissions to the extent feasible. The emissions are mainly attributable to application of architectural coatings. Because the coatings will meet SDAPCD low-VOC requirements, there are no additional mitigation measures that would reduce VOC emissions to less than significant levels.

4.2.1.4 Conclusions

Project criteria pollutants emissions during construction would be less than significant for all pollutants except VOCs. This impact would be significant and unmitigated, but would be temporary.

4.2.2 Operational Impacts

4.2.2.1 Guidelines for the Determination of Significance

Based on the County of San Diego Guidelines (County of San Diego 2007), operational impacts would be potentially significant if they exceed the quantitative screening-level thresholds for attainment pollutants (NO_2, SO_2, and CO), and would result in a significant impact if they exceed the screening-level thresholds for nonattainment pollutants (ozone precursors and particulate matter).

4.2.2.2 Significance of Impacts Prior to Mitigation

The main operational impacts associated with the Project would include impacts associated with traffic; additional emissions would be associated with area sources such as energy use and landscaping.

Project-generated traffic was addressed in the Traffic Impact Analysis for the Otay Mesa Specific Plan Amendment (Linscott, Law & Greenspan 2015). Based on the Traffic Impact Analysis, under Buildout conditions the total trip generation would be 37,916 average daily trips (ADT) without accounting for a mixed use reduction. The mixed use reduction assumed by the traffic analysis is

10%; however, this reduction was not taken into account in the analysis. Project operational emissions were estimated using the CalEEMod Model, Version 2013.2.2, conservatively assuming an operational year of 2025; in reality, full buildout is not anticipated until approximately 2032.

Emissions were calculated for area sources (including architectural coatings for maintenance purposes, consumer products, landscaping, and fireplace use – all natural gas fireplaces assumed), energy use (natural gas use), and vehicles. Emissions were calculated for both summer and winter conditions, as well as for annual operations.

The main operational impacts associated with the Project would include impacts associated with traffic; additional emissions would be associated with area sources such as energy use and landscaping. Emissions are attributable to the following sources:

- Vehicles from trips generated by the project. Trip generation rates were obtained from the Traffic Impact Study (Linscott, Law and Greenspan 2015).
- Architectural coatings application for maintenance purposes
- Consumer products use
- Fireplace use – all fireplaces are assumed to be natural gas
- Landscaping equipment use
- Energy use – natural gas

The results of the emission calculations, in lbs/day and tons/year, are summarized in Table 6 for buildout conditions, along with emissions associated with area sources and a comparison with the County of San Diego significance criteria. The CalEEMod outputs are presented in Appendix A.

Table 6 Total Operational Emissions						
	VOCs	**NOx**	**CO**	**SO_X**	**PM_{10}**	**$PM_{2.5}$**
Summer, Lbs/day						
Area Sources	126.99	2.98	258.24	0.01	3.66	3.63
Energy Use	1.67	14.52	7.77	0.09	1.16	1.16
Vehicular Emissions	82.41	138.40	780.31	3.13	213.22	59.10
TOTAL	**211.08**	**155.89**	**1,046.32**	**3.23**	**218.04**	**63.89**
Screening-Level Thresholds	75	250	550	250	100	55
Above Screening-Level Thresholds?	*Yes*	*No*	*Yes*	*No*	*Yes*	*Yes*
Winter, Lbs/day						
Area Sources	126.99	2.98	258.24	0.01	3.66	3.63
Energy Use	1.67	14.52	7.77	0.09	1.16	1.16
Vehicular Emissions	86.93	147.06	820.16	2.97	213.23	59.11
TOTAL	**215.59**	**164.55**	**1,086.17**	**3.08**	**218.05**	**63.90**
Screening-Level Thresholds	75	250	550	250	100	55
Above Screening-Level Thresholds?	*Yes*	*No*	*Yes*	*No*	*Yes*	*Yes*
Tons/year						
Area Sources	21.93	0.27	23.23	0.001	0.16	0.16
Energy Use	0.31	2.65	1.42	0.02	0.21	0.21
Vehicular Emissions	14.36	25.74	140.08	0.53	36.62	10.18
TOTAL	**36.59**	**28.66**	**164.72**	**0.54**	**37.00**	**10.55**
Screening-Level Thresholds	13.7	40	100	40	15	10
Above Screening-Level Thresholds?	*Yes*	*No*	*Yes*	*No*	*Yes*	*No*

Emissions associated with the project are above the County's screening-level thresholds for the following pollutants:

- VOCs, CO, PM_{10}, and $PM_{2.5}$ (daily)
- VOCs, CO, and PM_{10} (annual)

Because vehicular emissions decrease over time with phase-out of older vehicles and implementation of increasingly stringent emission controls, future emissions would decrease from 2025 onward. However, emissions would remain above the significance thresholds due to the use of fireplaces and consumer products, as well as vehicle travel.

The project has incorporated design features such as a mix of uses and provides local-serving retail for residential and business land uses currently located in the project area. Because the VOC emissions associated with area sources are mainly attributable to the use of consumer products in residential dwellings, and because the applicant does not have the ability to regulate consumer products use, the emissions from area sources would not be mitigable by the applicant. According to the Traffic Impact Analysis, the mix of uses would result in a reduction in VMT, and associated VOCs, of 10%; according to the CAPCOA reference *Quantifying Greenhouse Gas Reduction Measures* (CAPCOA 2010), the reduction based on the land use index calculation is 15.04%. The project would not include conventional fireplaces and would be equipped with natural gas fireplaces only. Furthermore, because the project is consistent with the General Plan's Village land use element, and would provide residential uses in an employment center, the project would ultimately reduce VOCs from vehicles within the region by reducing VMTs from travel to employment. There are no additional mitigation measures that would reduce emissions below a level of significance. Future vehicle emissions would decrease due to increasingly stringent air quality standards and phaseout of older vehicles.

Operational emissions would exceed the County's screening-level thresholds for VOCs, CO, PM_{10}, and $PM_{2.5}$. Most of the emissions are attributable to vehicle trips generated by the project; however, the VOC emissions are above the threshold mainly due to the use of consumer products in the residential development. The consumer products use is associated with residential uses, and the applicant cannot mandate that residents not use consumer products that contain VOCs. Because the project is providing residential uses within the Otay Mesa Specific Plan Area, it is likely that overall within the region the VMT would be reduced due to the availability of nearby residences to workplaces. However, for the purpose of this analysis, the project would result in a significant impact.

4.2.2.3 Mitigation Measures and Design Considerations

There are no additional mitigation measures beyond the project design features discussed above that would reduce the impacts associated with the project to below a level of significance. Because

the project is consistent with the County General Plan's Thriving Communities Goal, and provides a mix of uses in the Otay Mesa Area, the project would likely reduce, rather than increase, the VMT required to travel to places of employment in the Specific Plan Area.

As each portion of the project is developed, the project will be required to undergo a plan review. At that time, there may be additional measures that would be identified to reduce emissions, including future regulations governing consumer products and future technical advancements that are not foreseeable at this time.

4.2.2.4 Conclusions

Emissions of VOCs, CO, PM_{10}, and $PM_{2.5}$ (daily) and VOCs, CO, and PM_{10} (annual) would exceed the County's screening-level thresholds for operations. Impacts would therefore be significant and unmitigated.

4.3 Cumulatively Considerable Net Increase of Criteria Pollutants

The project will result in a significant impact to air quality if:

The project will result in a cumulatively considerable net increase of any criteria pollutant for which the San Diego Air Basin is non-attainment under an applicable Federal or State Ambient Air Quality Standard (including emissions which exceed the SLTs for ozone precursors listed in Table 5 of the Guidelines).

4.3.1 Construction Impacts

4.3.1.1 Guidelines for the Determination of Significance

Based on the County of San Diego guidelines (County of San Diego 2007), a project would result in a cumulatively significant impact if the project results in a significant contribution to the cumulative increase in pollutants for which the SDAB is listed as nonattainment for the CAAQS

and NAAQS. As discussed in Section 2.0, the SDAB is considered a nonattainment area for the NAAQS for ozone and the CAAQS for ozone, PM_{10}, and $PM_{2.5}$.

Cumulatively considerable net increases during the construction phase would typically happen if two or more projects near each other are simultaneously constructing projects. A project that has a significant direct impact on air quality with regard to emissions of PM_{10}, $PM_{2.5}$, NOx, or VOCs during construction would also have a significant cumulatively considerably net increase. In the event direct impacts from a proposed project are less than significant, a project may still have a cumulatively considerable impact on air quality if the emissions of concern from the proposed project, in combination with the emissions of concern from other proposed projects or reasonably foreseeable future projects within a proximity relevant to the pollutants of concern, are in excess of the guidelines identified in Section 3.0.

4.3.1.2 Significance of Impacts Prior to Mitigation

The construction emissions would not exceed the County's screening-level thresholds for nonattainment pollutants except VOCs during one year of construction (NOx, PM_{10}, or $PM_{2.5}$). Construction emissions are anticipated within the San Diego Air Basin SIP and within the ARB's regional air emissions budgets, and are below the significance thresholds for all pollutants. Because emissions are below the screening-level thresholds for construction, emissions would not be cumulatively considerable on a regional basis.

In general, impacts associated with fugitive dust from construction are generally localized and would affect the area within approximately one-quarter mile of the project site. To evaluate the potential for cumulative impacts from grading at the East Otay Mesa Specific Plan project site, the following equation was used (Desert Research Institute 1996), which is utilized in the SCAQMD's Localized Significance Threshold Methodology (SCAQMD 2003) to evaluate localized PM_{10} impacts:

$$C_x = 0.9403\ C_0\ e^{-0.0462X}$$

Where C_x = predicted PM_{10} concentration at X meters from the fenceline;

C_0 = PM_{10} concentration at the fenceline;

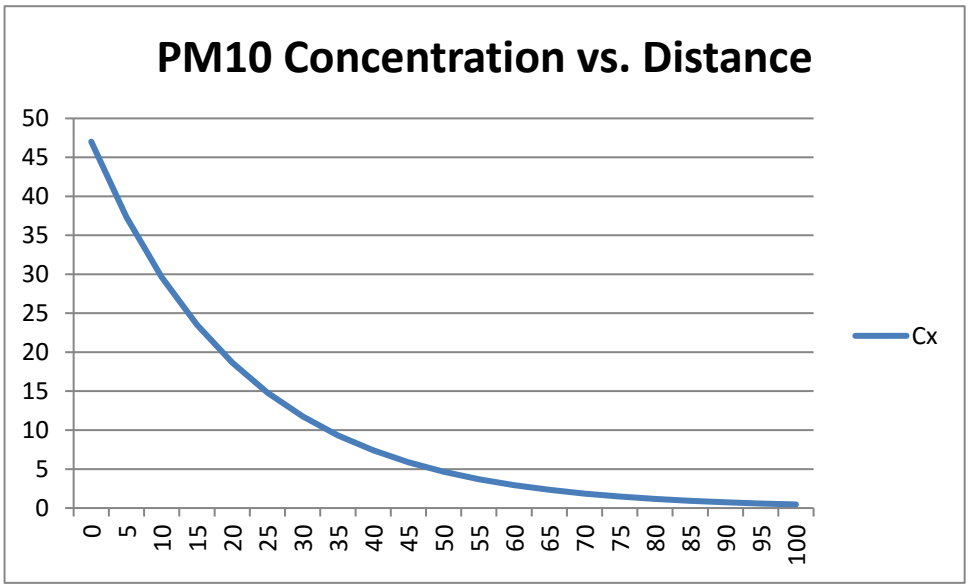
e = natural logarithm; and

X = distance in meters from the fenceline.

Conservatively assuming C_0 equals the 24-hour ambient air quality standard of 50 $\mu g/m^3$, fugitive PM_{10} concentrations would decrease with distance from the fenceline. As shown in the chart below, by 100 meters (approximately 330 feet) from the project boundary, the concentration of PM_{10} would decrease by 99 percent.

There are two developments located within 100 meters of the project site: California Crossings to the west of the site adjacent to the SR-125 freeway, and the Rabago Tentative Map project to the east of the site. The California Crossings project is most likely to be completed with construction by the time construction commences at the East Otay Mesa Specific Plan area; therefore, construction impacts would not combine to become cumulatively considerable.

It is likely that construction would occur at the Rabago Tentative Map site during the 15-year construction period proposed for the East Otay Mesa Specific Plan Amendment Project given the duration of the project and the proximity to the site. However, with the removal of the residential receptors located on that site, there would be no sensitive receptors that would be exposed to elevated particulate concentrations.



As stated by the California Natural Resources Agency (CNRA 2009), there is no "one molecule rule" in CEQA. In other words, the courts have ruled that addition of "one molecule" of pollutants does not constitute a cumulative impact for either localized or regional pollutants. While emissions of VOCs are above the County's threshold for construction emissions during Year 4 of construction, this is a temporary impact associated with application of architectural coatings. Emission of VOCs would be below the threshold for all other years of construction, and would not result in a long-term impact. For that reason, impacts from VOCs are not considered cumulatively considerable.

Because the project's construction emissions are below the County's significance thresholds, and because localized impacts would not affect a substantial number of receptors, impacts would be less than cumulatively considerable.

4.3.1.3 Design Considerations

As no cumulatively considerable impact has been identified for the project, no design considerations are required.

4.3.1.4 Conclusions

Impacts from construction would be less than significant.

4.3.2 Operational Impacts

4.3.2.1 Guidelines for the Determination of Significance

As discussed above, based on the County of San Diego guidelines (County of San Diego 2007), a project would result in a cumulatively significant impact if the project results in a significant contribution to the cumulative increase in NOx, VOCs, PM_{10}, and $PM_{2.5}$. In accordance with the guidelines, a project that does not conform to the RAQS and/or has a significant direct impact on air quality with regard to operational emissions of nonattainment pollutants would also have a cumulatively considerable net increase. Also, projects that cause road intersections to operate at or below a LOS E and create a CO "hot spot" create a cumulatively considerable net increase of CO.

4.3.2.2 Significance of Impacts Prior to Mitigation

Emissions of nonattainment pollutants VOCs, CO, PM_{10}, and $PM_{2.5}$ (daily) and VOCs, CO, and PM_{10} (annual) would exceed the County's screening-level thresholds for operations. The project would therefore result in a cumulatively considerable net increase in nonattainment pollutants. The evaluation of CO "hot spots" (presented in Section 4.4) took into account cumulative traffic at the intersections, and determined that no exceedance of the CO standard would result from cumulative traffic.

Operational emissions are below the significance thresholds for all pollutants except VOCs. Emissions of VOCs are mainly attributable to consumer products use in residences and vehicles. As discussed in Section 4.2.2, emissions of VOCs attributable to vehicles would be lower due to the provision of a mix of uses (employment, residential, and commercial) within the Specific Plan Area. Emissions of VOCs attributable to consumer products use is not within the control of the

applicant. Because the emissions of VOCs exceed the significance threshold, emissions of VOCs would be cumulatively considerable on a regional basis.

4.3.2.3 Mitigation Measures and Design Considerations

As discussed in Section 4.2.2.3, there are no additional mitigation measures that would reduce the impacts associated with the project to below a level of significance. The applicant cannot implement measures to reduce consumer products use or regulate the types of consumer products that would be used.

Because the project is consistent with the County General Plan's Thriving Communities Goal, and provides a mix of uses in the Otay Mesa Area, the project would likely reduce, rather than increase, the VMT required to travel to places of employment in the Specific Plan Area.

As each portion of the project is developed, the project will be required to undergo a plan review. At that time, there may be additional measures that would be identified to reduce emissions.

4.3.2.4 Conclusions

Emissions of nonattainment pollutants would exceed the County's screening-level thresholds for nonattainment pollutants. Therefore, the project would result in a cumulatively considerable impact.

4.4 Impacts to Sensitive Receptors

4.4.1 Guidelines for the Determination of Significance

The project will result in a significant impact to air quality if:

The project will expose sensitive receptors to substantial pollutant concentrations.

Air quality regulators typically define "sensitive receptors" as schools, hospitals, resident care facilities, day-care centers, or other facilities that may house individuals with health conditions that would be adversely impacted by changes in air quality. However, for the purpose of CEQA analysis, the County of San Diego definition of "sensitive receptors" includes residences (County of San Diego 2007). The two pollutants of main concern for development projects are CO and diesel particulate matter.

CO Hot Spots. Projects involving traffic impacts may result in the formation of locally high concentrations of CO, known as CO "hot spots." To verify that the project would not cause or contribute to a violation of the CO standard, a screening evaluation of the potential for CO "hot spots" was conducted. The Traffic Impact Analysis (Linscott, Law & Greenspan 2015) evaluated whether or not there would be a decrease in the level of service at the roadways and/or intersections affected by the Project. The potential for CO "hot spots" was evaluated based on the results of the Traffic Impact Analysis. The Caltrans ITS Transportation Project-Level Carbon Monoxide Protocol (Caltrans 1998) should be followed to determine whether a CO "hot spot" is likely to form due to Project-generated traffic. In accordance with the Protocol, CO "hot spots" are typically evaluated when (a) the level of service (LOS) of an intersection or roadway decreases to a LOS E or worse; (b) signalization and/or channelization is added to an intersection; and (c) sensitive receptors such as residences, commercial developments, schools, hospitals, etc. are located in the vicinity of the affected intersection or roadway segment.

Toxic Air Contaminants. The primary toxic air contaminant emissions of concern for impacts to sensitive receptors is diesel particulate matter. While there is a potential that the Technology Business Park uses could utilize toxic air contaminants, there is no way to speculate on the types or amounts of substances that could be released. As discussed in Section 4.0, a site plan review will be conducted on each specific area as it is developed, when specific uses would be better understood and use of toxic air contaminants could be addressed at that time. Emissions from stationary sources would be subject to the requirements of SDAPCD Rule 1200, and would therefore be required to obtain an air permit and to demonstration through a health risk assessment that the source's operational emissions would not result in a significant impact to sensitive

receptors. This analysis therefore focuses on diesel particulate matter associated with construction sources.

The project does not include warehousing and would therefore not generate the truck trips associated with those types of uses, which are not allowed within the Specific Plan Area. Uses in the Technology Business Park would be limited to light industrial and custom manufacturing. These uses would be confined to the Technology Business Park uses and would not be mixed with the residential uses. While there could also be particulate matter from truck traffic on the site during operations, it is anticipated that the amount of truck traffic during operations at full buildout would be lower than the emissions during construction, because no truck distribution facilities are allowed within the project.

4.4.2 Significance of Impacts Prior to Mitigation

CO Hot Spots. The Traffic Impact Analysis evaluated 23 intersections in the project vicinity to evaluate the potential for direct impacts. Based on the Traffic Impact Analysis, significant intersection impacts were identified for the following intersections:

Existing plus Project

Otay Mesa Road and La Media Road
Otay Mesa Road and Harvest Road
Otay Mesa Road and Sanyo Road
Otay Mesa Road and Vann Centre Boulevard

Year 2020 Cumulative Conditions

Otay Mesa Road and La Media Road
Otay Mesa Road and Harvest Road
Otay Mesa Road and Sanyo Road
Otay Mesa Road and Vann Centre Boulevard
Airway Road and Sanyo Road
Airway Road and Paseo de las Americas
Siempre Viva Road and Paseo de las Americas

Siempre Viva Road and Enrico Fermi Drive

To evaluate the potential for CO "hot spots" at this intersection, the procedures in the Caltrans ITS Transportation Project-Level Carbon Monoxide Protocol (Caltrans 1998) were used. As recommended in the Protocol, CALINE4 modeling was conducted for the intersections identified above for the scenarios with and without Project traffic. Modeling was conducted based on the guidance in Appendix B of the Protocol to calculate maximum predicted 1-hour CO concentrations. Predicted 1-hour CO concentrations were then scaled to evaluate maximum predicted 8-hour CO concentrations using the recommended scaling factor of 0.7 for urban locations.

Inputs to the CALINE4 model were obtained from the Traffic Impact Analysis. As recommended in the Protocol, receptors were located at locations that were approximately 3 meters from the mixing zone, and at a height of 1.8 meters. Average approach and departure speeds were assumed to be 5 mph to account for congestion at the intersection and provide a worst case estimate of emissions. Emission factors were estimated from the EMFAC2014 Model.

In accordance with the Caltrans ITS Transportation Project-Level Carbon Monoxide Protocol, it is also necessary to estimate future background CO concentrations in the project vicinity to determine the potential impact plus background and evaluate the potential for CO "hot spots" due to the project. As a conservative estimate of background CO concentrations, the existing maximum 1-hour background concentration of CO that was measured at the San Diego monitoring station for the period 2012 to 2014 of 2.7 ppm was used to represent future maximum background 1-hour CO concentrations. This is a conservative assumption, as the monitoring station is located in downtown San Diego where there is more congestion than in the project area. The existing maximum 8-hour background concentration of CO that was measured at the San Diego monitoring station during the period from 2012 to 2014 of 1.9 ppm was also used to provide a conservative estimate of the maximum 8-hour background concentrations in the project vicinity. CO concentrations in the future may be lower as inspection and maintenance programs and more stringent emission controls are placed on vehicles.

The CALINE4 model outputs are provided in Appendix A of this report. Table 7 presents a summary of the predicted CO concentrations (impact plus background) for the intersections evaluated. As shown in Table 10, the predicted CO concentrations would be substantially below the 1-hour and 8-hour NAAQS and CAAQS for CO shown in Table 1 of this report. Therefore, no exceedances of the CO standard are predicted, and the project would not cause or contribute to a violation of this air quality standard. The traffic would therefore not expose sensitive receptors to substantial CO concentrations.

Table 7
CO "Hot Spots" Evaluation
Predicted CO Concentrations, ppm

Existing plus Project		
Maximum 1-hour Concentration Plus Background, ppm CAAQS = 20 ppm; NAAQS = 35 ppm; Background 2.7 ppm		
Intersection		
	am	*pm*
Otay Mesa Road and La Media Road	3.1	3.1
Otay Mesa Road and Harvest Road	3.0	3.1
Otay Mesa Road and Sanyo Road	3.0	3.0
Otay Mesa Road and Vann Centre Boulevard	2.9	2.9
Maximum 8-hour Concentration Plus Background, ppm CAAQS = 20 ppm; NAAQS = 35 ppm; Background 1.9 ppm		
Otay Mesa Road and La Media Road	2.2	
Otay Mesa Road and Harvest Road	2.2	
Otay Mesa Road and Sanyo Road	2.1	
Otay Mesa Road and Vann Centre Boulevard	2.0	
Cumulative 2020		
Maximum 1-hour Concentration Plus Background, ppm CAAQS = 20 ppm; NAAQS = 35 ppm; Background 2.7 ppm		
Intersection		
	am	*pm*
Otay Mesa Road and La Media Road	2.9	3.0
Otay Mesa Road and Harvest Road	3.1	3.1
Otay Mesa Road and Sanyo Road	3.1	3.2
Otay Mesa Road and Vann Centre Boulevard	3.0	3.0
Airway Road and Sanyo Road	2.9	2.9
Airway Road and Paseo de las Americas	2.9	2.9
Siempre Viva Road and Paseo de las Americas	3.1	3.0
Siempre Viva Road and Enrico Fermi Drive	3.0	2.9
Maximum 8-hour Concentration Plus Background, ppm CAAQS = 20 ppm; NAAQS = 35 ppm; Background 1.9 ppm		
Otay Mesa Road and La Media Road	2.1	
Otay Mesa Road and Harvest Road	2.2	
Otay Mesa Road and Sanyo Road	2.3	
Otay Mesa Road and Vann Centre Boulevard	2.1	
Airway Road and Sanyo Road	2.0	
Airway Road and Paseo de las Americas	2.0	

Table 7 CO "Hot Spots" Evaluation Predicted CO Concentrations, ppm	
Siempre Viva Road and Paseo de las Americas	2.2
Siempre Viva Road and Enrico Fermi Drive	2.1

Toxic Air Contaminants. The project would result in emissions of diesel particulate matter during construction activities and also due to truck traffic associated with project operations. To evaluate whether project construction could pose a significant impact to nearby sensitive receptors, an evaluation of diesel exhaust particulate matter was conducted. Diesel exhaust particulate matter is known to the state of California as carcinogenic compounds. The risks associated with exposure to substances with carcinogenic effects are typically evaluated based on a lifetime of chronic exposure, which is defined in the California Office of Environmental Health Hazard Assessment (OEHHA) guidelines, *The Air Toxics Hot Spots Program Guidance Manual for Preparation of Health Risk Assessments* (OEHHA 2003) as 24 hours per day, 7 days per week, 365 days per year, for 70 years. Diesel exhaust particulate matter would be emitted during construction due to the operation of heavy equipment at the site. Because diesel exhaust particulate matter is considered to be carcinogenic, long-term exposure to diesel exhaust emissions have the potential to result in adverse health impacts.

The purpose of this analysis is to provide a program-level evaluation of potential toxic air contaminant impacts on existing receptors in the project area. As discussed in this document, each development area will be required to conduct a site plan review. At that time, it can be determined if (a) the sensitive receptors identified within the existing impact area are still present; (b) there are new sensitive receptors developed as part of the Specific Plan Area that could be exposed to toxic air contaminants; and (c) whether there are any specific toxic air contaminant emissions identified as part of the development itself.

To assess whether there is a potential for a significant impact associated with exposure to diesel exhaust particulate matter, a health risk evaluation was conducted on the particulate emissions. The amount of diesel particulate varies with the project schedule and construction phasing; the

project is anticipated to be constructed over a period of 17 years starting in 2016 and ending in 2032. The on-site construction heavy equipment diesel particulate emissions calculated by the CalEEMod Model for each year are as follows:

Table 8
Diesel Particulate Emissions – Construction Phase

Construction Phase	Tons of Diesel Particulate[1]
Site Preparation	0.1763
Grading (2016)	0.5509
Grading (2017)	0.6124
2018	0.3478
2019	0.3787
2020	0.3395
2021	0.3687
2022	0.3646
2023	0.2882
2024	0.2466
2025	0.2122
2026	0.2122
2027	0.2122

[1]The CalEEMod model was run using Tier 3 equipment; however, for 2023 and beyond, the default equipment fleet assumes Tier 3 and Tier 4 equipment. Default equipment emissions were therefore used in this HRA.

The construction heavy equipment sources were represented as a series of 266 volume sources placed at the site. The sources were placed throughout the site, because it is not known where specific activities would occur at various construction phases and times. Emissions were allocated to each source based on the estimated emission rates for diesel particulate during construction.

The nearest existing receptors were located based on the site map and aerial photographs for the project area. The only sensitive receptors identified in the project vicinity are three residences located on Otay Mesa Road to the southeast of the site. These residential dwellings are part of a pending tentative map development, which would result in the removal of the residences. For the purpose of this analysis, however, it was assumed that these residential dwellings would be occupied for a period of five years during construction of the East Otay Mesa Specific Plan Amendment. In the event that the residences are still present at the time of individual site plan

reviews, further analysis may be warranted to evaluate potential risks to the existing residences. The site plan review process may also identify circumstances where a review of impacts to residences within the development from future construction activities is warranted.

The risk evaluation was conducted to assess the potential for an unacceptable risk at these existing receptors due to exposure to diesel particulate emissions from heavy construction equipment during construction. The residential receptors identified are the closest residences. No other sensitive receptors are located in the project vicinity within the one-mile distance identified in this analysis.

The U.S. EPA's approved air dispersion model, AERMOD (U.S. EPA 2014), was used to estimate the downwind impacts at the closest receptors to the construction site. The model was run using preprocessed meteorological data from the Otay Mesa surface meteorological monitoring station provided by the San Diego Air Pollution Control District. Risks were estimated using the Office of Environmental Health Hazard Assessment (OEHHA)'s March 2015 *Air Toxics Hot Spots Program Guidance Manual for Preparation of Health Risk Assessments.*

OEHHA recommends exposure assumptions to calculate potential health risks, including adjustments to account for childhood exposure, to calculate excess cancer risks. The guidance recommends a 30-year exposure period for use as the basis for estimating cancer risk at residential receptors. Risks are calculated on the basis of the 30-year exposure period, accounting for childhood sensitivity, using the OEHHA-recommended age sensitivity factors (ASFs) to take into account the increased sensitivity to carcinogens during early-in-life exposure. In addition, high-end breathing rates recommended by OEHHA were used to provide a conservative estimate of risk. The residential exposure scenario assumes that an individual is present at the same location 24 hours per day, 350 days per year, for a 30-year period that includes childhood. Table 9 presents the exposure factors used in this analysis to evaluate potential risks from the construction of the project.

Table 9 Risk Assessment Exposure Factors					
Risk Calculation Parameters	**Breathing Rate/Body Weight. L/kg-day**	**Age Sensitivity Factor**	**Exposure Duration, years**	**Averaging Time, years**	**Fraction of Time at Home**
Time Period of Exposure, years	**High End BR/BW**	**ASF**	**ED**	**AT**	**FAH**
3rd Trimester	361	10	0.25	70	0.85
0<2	1090	10	2	70	0.85
2<16	745	3	14	70	0.72
16<30	335	1	14	70	0.73
Cancer Potency Factors					
Diesel Particulate	1.10E+00(mg/kg-day)$^{-1}$				

Source: OEHHA 2015

It should be understood that the averaging time for cancer risk (AT) is not the same as the exposure duration (ED). According to the USEPA (USEPA 2015), for quantifying cancer risk, "lifetime" exposure employs an averaging time of 70 years (i.e., 70 years × 365 days/year). This term specifies the length of time over which the average dose is calculated. According to the USEPA (USEPA 2009), the estimation of an exposure concentration when assessing cancer risks characterized by an inhalation unit risk involves the concentration in air measured at an exposure point at a site as well as scenario-specific parameters, such as the exposure duration and frequency. The exposure concentration typically takes the form of a concentration in air that is time-weighted over the duration of exposure and incorporates information on activity patterns for the specific site or the use of professional judgment. However, the cancer slope factor used to calculate the risk is always based on an averaging time of 70 years, which represent a lifetime of exposure.

Risks are calculated on the basis of a 30-year exposure scenario as recommended by OEHHA. Because the risk calculation is based on 30 years (10,950 days) of exposure for 24 hours per day, 350 days per year, the results of the analysis were scaled to account for exposure for the duration of exposure assumed at the nearest receptors (5 years), as shown in the example calculation below.

Risk = Excess cancer risk for 30 years x (1,825 days/10,950 days).

The maximum annual concentration at an offsite receptor is 0.04599 $\mu g/m^3$. According to OEHHA (OEHHA 2015), cancer and chronic risks are calculated based on air dispersion modeling using meteorological data that is sufficient to estimate long-term exposure concentrations. To be representative, meteorological data must be of sufficient duration to define the range of sequential atmospheric conditions anticipated at a site. As a minimum, one full year of on-site meteorological data is necessary to prescribe this time series. OEHHA recommends that annual average concentrations be used in calculating cancer and chronic risks. The maximum concentration was used to calculate risk based on on-site diesel particulate emissions. The risk predicted using this equation is then compared to a risk level of 10 in 1 million, which is the County's significance threshold with implementation of Toxics-Best Available Control Technology (T-BACT). If the risk predicted using this equation is above 10 in 1 million, the risk would be above the County of San Diego's significance threshold. Based on the above equation, the maximum excess cancer risk predicted at the nearest residential receptor would be 5.23 in a million. This value is below the County of San Diego's significance threshold of 10 in 1 million with implementation of T-BACT.

In addition, the chronic hazard was calculated based on the potential for adverse non-cancer health effects associated with exposure to diesel particulate matter. It should be noted that cancer risks generally drive the potential risk assessment for diesel particulate matter. The chronic reference exposure level (REL) for diesel particulate matter is 5 $\mu g/m^3$. The hazard quotient is calculated by dividing the downwind concentration of diesel particulate matter by the REL. The chronic hazard quotient for construction of the East Otay Mesa Specific Plan Amendment would therefore be 0.009198, which is below the County's significance hazard threshold of 1.0.

T-BACT will include the following measure:

In accordance with County of San Diego Planning and Development Services requirements, the project will require the construction fleet to use any combination of diesel catalytic converters, diesel oxidation catalysts, diesel particulate filters and/or ARB certified Tier III, or IV equipment. With this requirement, the project would mitigate emissions to the extent feasible. At this time, it

is not known what the specific makeup of the construction fleet would be; however, future construction fleets would be more likely to be comprised of higher tier equipment. As discussed throughout this analysis, each portion of the development will be required to undergo a development review; additional measures may be applicable at the time of the review for various construction phases.

The risks associated with exposure to diesel particulate from construction of the project are therefore not significant. Results of the risk evaluation and risk calculations are included in Appendix B.

Vehicular traffic may result in emissions of toxic air contaminants (TACs). Minor amounts of TACs are found in light-duty vehicle exhaust; however, the main source of on-road TACs is from diesel-powered heavy-duty trucks. As discussed above, however, the three offsite residences would eventually be removed upon development of the adjacent tentative map area. Accordingly, it is anticipated that truck traffic attributable to the project's operations would not result in an impact to these sensitive receptors.

Because it is not known exactly what types of facilities would be located at the Technology Park, and because the specific development scenario for residences versus Technology Park Uses are not known at this time, it is not possible to evaluate risks at the on-site residences. However, as specific planning areas are developed, they will be required to undergo further review, which may include preparation of a site-specific health risk assessment as warranted to identify potential TAC emissions from proposed uses as well as additional sensitive receptors that may be developed as part of this project.

4.4.3 Mitigation Measures and Design Considerations

Because impacts to sensitive receptors from diesel particulate emissions would be less than significant, no additional mitigation measures are required.

4.4.4 Conclusions

Impacts to sensitive receptors would be less than significant.

4.5 Odor Impacts

4.5.1 Guidelines for the Determination of Significance

The project will result in a significant impact to air quality if:

The project which is not an agricultural, commercial or an industrial activity subject to SDAPCD standards, as a result of implementation, will either generate objectionable odors or place sensitive receptors next to existing objectionable odors, which will affect a considerable number of persons or the public.

4.5.2 Significance of Impacts Prior to Mitigation

Project construction could result in minor amounts of odor compounds associated with diesel heavy equipment exhaust. Because the construction equipment would be operating at various locations throughout the construction site, and because any operation that would occur in the vicinity of existing receptors would be temporary, impacts associated with odors during construction are therefore not considered significant.

During construction, diesel equipment operating at the site may generate some nuisance odors; however, due to the distance of sensitive receptors to the project site and the temporary nature of construction, odors associated with project construction would not be significant.

According to the SCAQMD (SCAQMD 1999), the following sources are considered odor sources:

- Agriculture (farming and livestock)
- Wastewater treatment plants
- Food processing plants
- Chemical plants
- Composting
- Refineries
- Landfills
- Dairies
- Fiberglass molding.

The project will not include any of these odor sources at the site. The project is designed to provide a mix of residential, employment, and retail uses. Within the Technology Business Park, the uses would include light manufacturing and technology uses that would not include any of the odor-generating land uses listed above. The Specific Plan Area will not allow any of the types of land uses listed above that are identified as potential sources of objectionable odors affected a substantial number of people. Furthermore, as discussed throughout this analysis, as developed each project will be required to undergo additional CEQA review, and specific uses that are identified can be evaluated for potential odor impacts at the time of review. The project is therefore not considered a source of objectionable odors from operations.

4.5.3 Design Considerations

Because the project would not generate objectionable odors or place sensitive receptors near existing odor sources that would affect a considerable number of persons or the public, no additional design considerations are required.

4.5.4 Conclusions

Due to the nature of the project as a mix of residential, employment, and retail uses that will not include objectionable odor sources, the project is not identified as a specific source of nuisance odors. Odor impacts are therefore less than significant.

5.0 SUMMARY OF RECOMMENDED DESIGN FEATURES, IMPACTS, AND MITIGATION

In summary, the proposed project would result in emissions of air pollutants for both the construction phase and operational phase of the project. The air quality impact analysis evaluated the following air quality issues, and made the following conclusions:

The project will conflict with or obstruct the implementation of the San Diego Regional Air Quality Strategy (RAQS) and/or applicable portions of the State Implementation Plan (SIP).

The project will provide a mix of uses and is consistent with the goals of the County General Plan's Thriving Communities Goals. The project would be consistent with the intensity scale in the General Plan and would not result in additional vehicle trips above the levels anticipated in the General Plan. The project would not differ from the analysis included within the RAQS and SIP to demonstrate attainment. The project would therefore not conflict with or obstruct implementation of the RAQS and SIP.

The project would result in emissions that would violate any air quality standard or contribute substantially to an existing or projected air quality violation.
The project will result in emissions that exceed 250 pounds per day of NOx, or 75 pounds per day of VOCs.
The project will result in emissions of carbon monoxide that when totaled with the ambient concentrations will exceed a 1-hour concentration of 20 parts per million (ppm) or an 8-hour average of 9 ppm.
The project will result in emissions of $PM_{2.5}$ that will exceed 55 pounds per day.
The project will result in emissions of PM_{10} that exceed 100 pounds per day and increase the ambient PM_{10} concentration by 5 micrograms per cubic meter (5.0 $\mu g/m^3$) or greater at the maximum exposed individual.

Both construction and operational emissions were evaluated to address these impacts. During both construction and operations, the project would result in emissions that are less than the screening-level thresholds for all criteria pollutants except VOCs. VOCs would exceed the threshold during Year 4 of construction. Because architectural coatings would comply with the SDAPCD's low-VOC requirements, there are no additional feasible mitigation measures to reduce impacts to less than significant. VOC emissions are below the significance threshold for all other years of construction. To reduce the emissions to the extent feasible, fugitive dust control measures will be implemented during construction. Measures that are incorporated into the project description to reduce emissions associated with construction include the following:

- Application of water three times daily during grading on active grading sites
- Reduce speeds to 15 mph on unpaved roads
- Clean paved roads
- Use architectural coatings with a VOC content of 100 g/l or less for exterior coatings and 50 g/l or less for interior coatings
- Require the construction fleet to use any combination of catalytic converters, diesel oxidation catalysts, diesel particulate filters, and/or ARB certified Tier III or Tier IV equipment.

These measures constitute best management practices for dust control, architectural coatings, diesel particulate, and construction equipment emissions.

Operational emissions would be associated with traffic accessing the project, and with area sources such as energy use and landscaping. Based on the evaluation of air emissions, the project emissions would exceed the screening-level thresholds for VOCs, NOx, PM_{10}, and $PM_{2.5}$. However, because the project would provide a mix of uses and would provide residential uses near occupational locations, it is likely that siting these residential uses in the East Otay Mesa Specific Plan Area would reduced, rather than increase, VMT and therefore emissions on an regional basis.

However, because emissions of VOCs criteria pollutants would exceed the County's screening-level thresholds, impacts would be significant. The project design includes features that would reduce VOC emissions to the extent feasible, including providing a mix of uses in the Otay Mesa area that reduces VMT overall within the region; use of natural gas fireplaces; and providing on-site residential, employment, and retail uses. The VOC emissions include emissions from

consumer products that cannot be controlled by the applicant. There are no additional measures identified that would reduce impacts to below a level of significance.

The project will result in a cumulatively considerable net increase of any criteria pollutant for which the San Diego Air Basin is non-attainment under an applicable Federal or State Ambient Air Quality Standard (including emissions which exceed the SLTs for ozone precursors listed in Table 5 of the Guidelines).

Emissions of nonattainment pollutants would be below the County's screening-level thresholds during construction. Emissions would comprise a small percentage of the overall emissions budget within the region. Construction emissions would be less than cumulatively considerable.
Operational emissions of VOCs, NOx, PM_{10}, and $PM_{2.5}$ are above the County's screening-level thresholds and would therefore result in a cumulatively considerable impact. There are no mitigation measures identified that would reduce this impact to below a level of significance. However, as noted above, because the project would provide residential uses in the East Otay Mesa area in close proximity to occupational uses, it is likely that the overall basin-wide emissions of these pollutants would be reduced due to less VMT to commute to places of employment.

The project will expose sensitive receptors to substantial pollutant concentrations.

As discussed in Section 4.4, the project would not expose sensitive receptors to substantial pollutant concentrations.

The project which is not an agricultural, commercial or an industrial activity subject to SDAPCD standards, as a result of implementation, will either generate objectionable odors or place sensitive receptors next to existing objectionable odors, which will affect a considerable number of persons or the public.

The project would not generate objectionable odors that would affect a considerable number of persons or the public. Odor impacts are less than significant.

6.0 REFERENCES

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7.0 LIST OF PREPARERS AND PERSONS AND ORGANIZATIONS CONTACTED

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Appendix A

Emission Calculations

CALINE4 Output Files

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           CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL
                    JUNE 1989 VERSION
                    PAGE   1

                JOB: Airway and Paseo del los America 2020 am
                RUN: Hour 1           (WORST CASE ANGLE)
         POLLUTANT: Carbon Monoxide


    I.  SITE VARIABLES

           U=   0.5 M/S             Z0= 100. CM            ALT=     0. (M)
         BRG= WORST CASE            VD=  0.0 CM/S
        CLAS=     7 (G)             VS=  0.0 CM/S
        MIXH= 1000. M               AMB=  0.0 PPM
       SIGTH=   10. DEGREES        TEMP= 19.0 DEGREE (C)


   II.  LINK VARIABLES

        LINK      *  LINK COORDINATES (M)   *              EF     H     W
     DESCRIPTION  *   X1    Y1    X2    Y2  * TYPE  VPH  (G/MI)  (M)   (M)
  ----------------*-------------------------*-----------------------------
-
  A. Airway WBLA  *  -150     0     0     0 *  AG     60   1.2    0.0
10.0
  B. Airway WBTA  *  -150    -6     0    -6 *  AG    160   1.2    0.0
10.0
  C. Airway WBRA  *  -150    -7     0    -7 *  AG    190   1.2    0.0
10.0
  D. Airway WBD   *     0    -6   150    -6 *  AG    380   1.2    0.0
10.0
  E. Airway EBLA  *   150     6     0     6 *  AG     20   1.2    0.0
10.0
  F. Airway EBTA  *   150     7     0     7 *  AG    250   1.2    0.0
10.0
  G. Airway EBRA  *   150     6     0     6 *  AG     10   1.2    0.0
10.0
  H. Airway EBD   *     0     6  -150     6 *  AG    880   1.2    0.0
10.0
  I. PDelA NBL    *     0  -150     0     0 *  AG    470   1.2    0.0
10.0
  J. PDelA NBT    *     4  -150     4     0 *  AG     60   1.2    0.0
10.0
  K. PDelA NBR    *     5  -150     5     0 *  AG    210   1.2    0.0
10.0
  L. PDelA NBD    *     4     0     4   150 *  AG    130   1.2    0.0
10.0
  M. PDelA SBL    *     0   150     0     0 *  AG     10   1.2    0.0
10.0
```

```
  N. PDelA SBT    *    -4   150    -4     0 *  AG     70   1.2    0.0
10.0
  O. PDelA SBR    *    -6   150    -6     0 *  AG     60   1.2    0.0
10.0
  P. PDelA SBD    *    -4     0    -4  -150 *  AG    280   1.2    0.0
10.0
```

JOB: Airway and Paseo del los America 2020 am
RUN: Hour 1 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

III. RECEPTOR LOCATIONS

RECEPTOR	*	COORDINATES (M) X	Y	Z
1. 1	*	-14	-15	1.8
2. 2	*	-34	-15	1.8
3. 3	*	-54	-15	1.8
4. 4	*	-14	-35	1.8
5. 5	*	-14	-55	1.8
6. 6	*	15	-15	1.8
7. 7	*	35	-15	1.8
8. 8	*	55	-15	1.8
9. 9	*	15	-35	1.8
10. 10	*	15	-55	1.8
11. 11	*	-15	15	1.8
12. 12	*	-35	15	1.8
13. 13	*	-55	15	1.8
14. 14	*	-15	35	1.8
15. 15	*	-15	55	1.8
16. 16	*	14	17	1.8
17. 17	*	34	17	1.8
18. 18	*	54	17	1.8
19. 19	*	14	37	1.8
20. 20	*	14	57	1.8

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL
JUNE 1989 VERSION
PAGE 3

JOB: Airway and Paseo del los America 2020 am
RUN: Hour 1 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

IV. MODEL RESULTS (WORST CASE WIND ANGLE)

RECEPTOR	BRG (DEG)	PRED CONC (PPM)	CONC/LINK (PPM) A	B	C	D	E	F	G	H
1. 1	76.	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2. 2	78.	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3. 3	78.	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4. 4	32.	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5. 5	24.	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6. 6	283.	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
7. 7	282.	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
8. 8	281.	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
9. 9	293.	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10. 10	333.	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11. 11	166.	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
12. 12	122.	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
13. 13	113.	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
14. 14	169.	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15. 15	171.	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16. 16	192.	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17. 17	258.	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
18. 18	260.	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
19. 19	190.	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20. 20	189.	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

JOB: Airway and Paseo del los America 2020 am
RUN: Hour 1 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

IV. MODEL RESULTS (WORST CASE WIND ANGLE) (CONT.)

RECEPTOR	CONC/LINK (PPM) I	J	K	L	M	N	O	P
1. 1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2. 2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3. 3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4. 4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5. 5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6. 6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7. 7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8. 8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9. 9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10. 10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11. 11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12. 12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13. 13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14. 14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15. 15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16. 16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17. 17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18. 18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19. 19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20. 20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL
JUNE 1989 VERSION
PAGE 1

JOB: Airway and Paseo del los America 2020 pm
RUN: Hour 1 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

I. SITE VARIABLES

U=	0.5 M/S	Z0=	100. CM	ALT=	0. (M)
BRG=	WORST CASE	VD=	0.0 CM/S		
CLAS=	7 (G)	VS=	0.0 CM/S		
MIXH=	1000. M	AMB=	0.0 PPM		
SIGTH=	10. DEGREES	TEMP=	19.0 DEGREE (C)		

II. LINK VARIABLES

LINK DESCRIPTION	*	LINK COORDINATES (M) X1	Y1	X2	Y2	* TYPE	VPH	EF (G/MI)	H (M)	W (M)
A. Airway WBLA	*	-150	0	0	0	* AG	70	1.2	0.0	10.0
B. Airway WBTA	*	-150	-6	0	-6	* AG	100	1.2	0.0	10.0
C. Airway WBRA	*	-150	-7	0	-7	* AG	240	1.2	0.0	10.0
D. Airway WBD	*	0	-6	150	-6	* AG	340	1.2	0.0	10.0
E. Airway EBLA	*	150	6	0	6	* AG	60	1.2	0.0	10.0
F. Airway EBTA	*	150	7	0	7	* AG	300	1.2	0.0	10.0
G. Airway EBRA	*	150	6	0	6	* AG	20	1.2	0.0	10.0
H. Airway EBD	*	0	6	-150	6	* AG	940	1.2	0.0	10.0
I. PDelA NBL	*	0	-150	0	0	* AG	580	1.2	0.0	10.0
J. PDelA NBT	*	4	-150	4	0	* AG	70	1.2	0.0	10.0
K. PDelA NBR	*	5	-150	5	0	* AG	230	1.2	0.0	10.0
L. PDelA NBD	*	4	0	4	150	* AG	230	1.2	0.0	10.0
M. PDelA SBL	*	0	150	0	0	* AG	10	1.2	0.0	10.0
N. PDelA SBT	*	-4	150	-4	0	* AG	70	1.2	0.0	10.0

```
  O. PDelA SBR    *    -6   150    -6     0 *  AG     60   1.2    0.0
10.0
  P. PDelA SBD    *    -4     0    -4  -150 *  AG    370   1.2    0.0
10.0
```

JOB: Airway and Paseo del los America 2020 pm
RUN: Hour 1 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

III. RECEPTOR LOCATIONS

RECEPTOR	*	COORDINATES (M) X	Y	Z
1. 1	*	-14	-15	1.8
2. 2	*	-34	-15	1.8
3. 3	*	-54	-15	1.8
4. 4	*	-14	-35	1.8
5. 5	*	-14	-55	1.8
6. 6	*	15	-15	1.8
7. 7	*	35	-15	1.8
8. 8	*	55	-15	1.8
9. 9	*	15	-35	1.8
10. 10	*	15	-55	1.8
11. 11	*	-15	15	1.8
12. 12	*	-35	15	1.8
13. 13	*	-55	15	1.8
14. 14	*	-15	35	1.8
15. 15	*	-15	55	1.8
16. 16	*	14	17	1.8
17. 17	*	34	17	1.8
18. 18	*	54	17	1.8
19. 19	*	14	37	1.8
20. 20	*	14	57	1.8

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL
JUNE 1989 VERSION
PAGE 3

JOB: Airway and Paseo del los America 2020 pm
RUN: Hour 1 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

IV. MODEL RESULTS (WORST CASE WIND ANGLE)

RECEPTOR	BRG (DEG)	PRED CONC (PPM)	CONC/LINK (PPM) A	B	C	D	E	F	G	H
1. 1	74.	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2. 2	77.	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3. 3	78.	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4. 4	31.	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5. 5	22.	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6. 6	283.	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
7. 7	282.	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
8. 8	280.	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
9. 9	293.	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10. 10	333.	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11. 11	166.	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
12. 12	157.	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
13. 13	114.	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
14. 14	169.	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15. 15	171.	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16. 16	192.	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17. 17	258.	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
18. 18	259.	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
19. 19	190.	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20. 20	189.	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

JOB: Airway and Paseo del los America 2020 pm
RUN: Hour 1 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

IV. MODEL RESULTS (WORST CASE WIND ANGLE) (CONT.)

RECEPTOR	*	CONC/LINK (PPM) I	J	K	L	M	N	O	P
1. 1	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2. 2	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3. 3	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4. 4	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5. 5	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6. 6	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7. 7	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8. 8	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9. 9	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10. 10	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11. 11	*	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12. 12	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13. 13	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14. 14	*	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15. 15	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16. 16	*	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17. 17	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18. 18	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19. 19	*	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20. 20	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL
JUNE 1989 VERSION
PAGE 1

JOB: Airway and Sanyo 2020 am
RUN: Hour 1 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

I. SITE VARIABLES

U=	0.5 M/S	Z0=	100. CM	ALT=	0. (M)
BRG=	WORST CASE	VD=	0.0 CM/S		
CLAS=	7 (G)	VS=	0.0 CM/S		
MIXH=	1000. M	AMB=	0.0 PPM		
SIGTH=	10. DEGREES	TEMP=	19.0 DEGREE (C)		

II. LINK VARIABLES

LINK DESCRIPTION	*	LINK COORDINATES (M) X1	Y1	X2	Y2	* TYPE	VPH	EF (G/MI)	H (M)	W (M)
A. Airway WBLA	*	-150	0	0	0	* AG	60	1.2	0.0	10.0
B. Airway WBTA	*	-150	-6	0	-6	* AG	110	1.2	0.0	10.0
C. Airway WBRA	*	-150	-7	0	-7	* AG	80	1.2	0.0	10.0
D. Airway WBD	*	0	-6	150	-6	* AG	440	1.2	0.0	10.0
E. Airway EBLA	*	150	6	0	6	* AG	10	1.2	0.0	10.0
F. Airway EBTA	*	150	7	0	7	* AG	210	1.2	0.0	10.0
G. Airway EBRA	*	150	6	0	6	* AG	520	1.2	0.0	10.0
H. Airway EBD	*	0	6	-150	6	* AG	290	1.2	0.0	10.0
I. Sanyo NBL	*	0	-150	0	0	* AG	30	1.2	0.0	10.0
J. Sanyo NBT	*	4	-150	4	0	* AG	320	1.2	0.0	10.0
K. Sanyo NBR	*	5	-150	5	0	* AG	70	1.2	0.0	10.0
L. Sanyo NBD	*	4	0	4	150	* AG	900	1.2	0.0	10.0
M. Sanyo SBL	*	0	150	0	0	* AG	260	1.2	0.0	10.0
N. Sanyo SBT	*	-4	150	-4	0	* AG	450	1.2	0.0	10.0

```
  O. Sanyo SBR    *    -6   150    -6     0 *  AG     50   1.2    0.0
10.0
  P. Sanyo SBD    *    -4     0    -4  -150 *  AG    540   1.2    0.0
10.0
```

JOB: Airway and Sanyo 2020 am
RUN: Hour 1 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

III. RECEPTOR LOCATIONS

RECEPTOR	*	COORDINATES (M) X	Y	Z
1. 1	*	-14	-15	1.8
2. 2	*	-34	-15	1.8
3. 3	*	-54	-15	1.8
4. 4	*	-14	-35	1.8
5. 5	*	-14	-55	1.8
6. 6	*	15	-15	1.8
7. 7	*	35	-15	1.8
8. 8	*	55	-15	1.8
9. 9	*	15	-35	1.8
10. 10	*	15	-55	1.8
11. 11	*	-15	15	1.8
12. 12	*	-35	15	1.8
13. 13	*	-55	15	1.8
14. 14	*	-15	35	1.8
15. 15	*	-15	55	1.8
16. 16	*	14	17	1.8
17. 17	*	34	17	1.8
18. 18	*	54	17	1.8
19. 19	*	14	37	1.8
20. 20	*	14	57	1.8

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL
JUNE 1989 VERSION
PAGE 3

JOB: Airway and Sanyo 2020 am
RUN: Hour 1 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

IV. MODEL RESULTS (WORST CASE WIND ANGLE)

RECEPTOR	BRG (DEG)	PRED CONC (PPM)	CONC/LINK (PPM) A	B	C	D	E	F	G	H
1. 1	14.	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2. 2	77.	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3. 3	78.	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4. 4	12.	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5. 5	11.	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6. 6	346.	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7. 7	337.	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8. 8	300.	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9. 9	349.	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10. 10	350.	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11. 11	102.	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0
12. 12	100.	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13. 13	98.	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14. 14	112.	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15. 15	154.	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16. 16	225.	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17. 17	249.	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18. 18	253.	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19. 19	199.	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20. 20	196.	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

JOB: Airway and Sanyo 2020 am
RUN: Hour 1 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

IV. MODEL RESULTS (WORST CASE WIND ANGLE) (CONT.)

RECEPTOR	CONC/LINK (PPM) I	J	K	L	M	N	O	P
1. 1	0.0	0.0	0.0	0.1	0.0	0.1	0.0	0.0
2. 2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3. 3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4. 4	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0
5. 5	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0
6. 6	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0
7. 7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8. 8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9. 9	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0
10. 10	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0
11. 11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12. 12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13. 13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14. 14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15. 15	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0
16. 16	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0
17. 17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18. 18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19. 19	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0
20. 20	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL
JUNE 1989 VERSION
PAGE 1

JOB: Airway and Sanyo 2020 pm
RUN: Hour 1 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

I. SITE VARIABLES

U=	0.5 M/S	Z0=	100. CM	ALT=	0. (M)
BRG=	WORST CASE	VD=	0.0 CM/S		
CLAS=	7 (G)	VS=	0.0 CM/S		
MIXH=	1000. M	AMB=	0.0 PPM		
SIGTH=	10. DEGREES	TEMP=	19.0 DEGREE (C)		

II. LINK VARIABLES

LINK DESCRIPTION	*	LINK COORDINATES (M) X1	Y1	X2	Y2	* TYPE	VPH	EF (G/MI)	H (M)	W (M)
A. Airway WBLA	*	-150	0	0	0	* AG	30	1.2	0.0	10.0
B. Airway WBTA	*	-150	-6	0	-6	* AG	100	1.2	0.0	10.0
C. Airway WBRA	*	-150	-7	0	-7	* AG	50	1.2	0.0	10.0
D. Airway WBD	*	0	-6	150	-6	* AG	400	1.2	0.0	10.0
E. Airway EBLA	*	150	6	0	6	* AG	10	1.2	0.0	10.0
F. Airway EBTA	*	150	7	0	7	* AG	240	1.2	0.0	10.0
G. Airway EBRA	*	150	6	0	6	* AG	570	1.2	0.0	10.0
H. Airway EBD	*	0	6	-150	6	* AG	440	1.2	0.0	10.0
I. Sanyo NBL	*	0	-150	0	0	* AG	70	1.2	0.0	10.0
J. Sanyo NBT	*	4	-150	4	0	* AG	450	1.2	0.0	10.0
K. Sanyo NBR	*	5	-150	5	0	* AG	60	1.2	0.0	10.0
L. Sanyo NBD	*	4	0	4	150	* AG	1050	1.2	0.0	10.0
M. Sanyo SBL	*	0	150	0	0	* AG	240	1.2	0.0	10.0
N. Sanyo SBT	*	-4	150	-4	0	* AG	300	1.2	0.0	10.0

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  O. Sanyo SBR    *    -6   150    -6     0 *  AG    130   1.2    0.0
10.0
  P. Sanyo SBD    *    -4     0    -4  -150 *  AG    360   1.2    0.0
10.0
```

JOB: Airway and Sanyo 2020 pm
RUN: Hour 1 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

III. RECEPTOR LOCATIONS

RECEPTOR	*	COORDINATES (M) X	Y	Z
1. 1	*	-14	-15	1.8
2. 2	*	-34	-15	1.8
3. 3	*	-54	-15	1.8
4. 4	*	-14	-35	1.8
5. 5	*	-14	-55	1.8
6. 6	*	15	-15	1.8
7. 7	*	35	-15	1.8
8. 8	*	55	-15	1.8
9. 9	*	15	-35	1.8
10. 10	*	15	-55	1.8
11. 11	*	-15	15	1.8
12. 12	*	-35	15	1.8
13. 13	*	-55	15	1.8
14. 14	*	-15	35	1.8
15. 15	*	-15	55	1.8
16. 16	*	14	17	1.8
17. 17	*	34	17	1.8
18. 18	*	54	17	1.8
19. 19	*	14	37	1.8
20. 20	*	14	57	1.8

JOB: Airway and Sanyo 2020 pm
RUN: Hour 1 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

IV. MODEL RESULTS (WORST CASE WIND ANGLE)

RECEPTOR	BRG (DEG)	PRED CONC (PPM)	CONC/LINK (PPM) A	B	C	D	E	F	G	H
1. 1	13.	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2. 2	77.	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3. 3	78.	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4. 4	12.	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5. 5	10.	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6. 6	346.	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7. 7	337.	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8. 8	300.	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9. 9	349.	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10. 10	350.	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11. 11	102.	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0
12. 12	100.	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0
13. 13	98.	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14. 14	112.	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15. 15	154.	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16. 16	195.	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17. 17	252.	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18. 18	256.	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19. 19	198.	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20. 20	196.	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

JOB: Airway and Sanyo 2020 pm
RUN: Hour 1 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

IV. MODEL RESULTS (WORST CASE WIND ANGLE) (CONT.)

RECEPTOR	CONC/LINK (PPM) I	J	K	L	M	N	O	P
1. 1	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0
2. 2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3. 3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4. 4	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0
5. 5	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0
6. 6	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0
7. 7	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0
8. 8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9. 9	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0
10. 10	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0
11. 11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12. 12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13. 13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14. 14	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0
15. 15	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0
16. 16	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0
17. 17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18. 18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19. 19	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0
20. 20	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL
JUNE 1989 VERSION
PAGE 1

JOB: Otay Mesa and Harvest 2020 am
RUN: Hour 1 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

I. SITE VARIABLES

U=	0.5 M/S	Z0=	100. CM	ALT=	0. (M)
BRG=	WORST CASE	VD=	0.0 CM/S		
CLAS=	7 (G)	VS=	0.0 CM/S		
MIXH=	1000. M	AMB=	0.0 PPM		
SIGTH=	10. DEGREES	TEMP=	19.0 DEGREE (C)		

II. LINK VARIABLES

LINK DESCRIPTION	*	LINK COORDINATES (M) X1	Y1	X2	Y2	* TYPE	VPH	EF (G/MI)	H (M)	W (M)
A. OM WBLA	*	-150	0	0	0	* AG	380	1.2	0.0	10.0
B. OM WBTA	*	-150	-6	0	-6	* AG	1980	1.2	0.0	10.0
C. OM WBRA	*	-150	-7	0	-7	* AG	10	1.2	0.0	10.0
D. OM WBD	*	0	-6	150	-6	* AG	2100	1.2	0.0	10.0
E. OM EBLA	*	150	6	0	6	* AG	10	1.2	0.0	10.0
F. OM EBTA	*	150	7	0	7	* AG	1430	1.2	0.0	10.0
G. OM EBRA	*	150	6	0	6	* AG	70	1.2	0.0	10.0
H. OM EBD	*	0	6	-150	6	* AG	2000	1.2	0.0	10.0
I. Harvest NBLA	*	0	-150	0	0	* AG	10	1.2	0.0	10.0
J. Harvest NBTA	*	4	-150	4	0	* AG	10	1.2	0.0	10.0
K. Harvest NBRA	*	5	-150	5	0	* AG	10	1.2	0.0	10.0
L. Harvest NBD	*	4	0	4	150	* AG	460	1.2	0.0	10.0
M. Harvest SBLA	*	0	150	0	0	* AG	110	1.2	0.0	10.0
N. Harvest SBTA	*	-4	150	-4	0	* AG	10	1.2	0.0	10.0

```
  O. Harvest SBRA *    -6   150    -6     0 *  AG    560   1.2    0.0
10.0
  P. Harvest SBD  *    -4     0    -4  -150 *  AG     30   1.2    0.0
10.0
```

JOB: Otay Mesa and Harvest 2020 am
RUN: Hour 1 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

III. RECEPTOR LOCATIONS

RECEPTOR	*	COORDINATES (M) X	Y	Z
1. 1	*	-14	-15	1.8
2. 2	*	-34	-15	1.8
3. 3	*	-54	-15	1.8
4. 4	*	-14	-35	1.8
5. 5	*	-14	-55	1.8
6. 6	*	15	-15	1.8
7. 7	*	35	-15	1.8
8. 8	*	55	-15	1.8
9. 9	*	15	-35	1.8
10. 10	*	15	-55	1.8
11. 11	*	-15	15	1.8
12. 12	*	-35	15	1.8
13. 13	*	-55	15	1.8
14. 14	*	-15	35	1.8
15. 15	*	-15	55	1.8
16. 16	*	14	17	1.8
17. 17	*	34	17	1.8
18. 18	*	54	17	1.8
19. 19	*	14	37	1.8
20. 20	*	14	57	1.8

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL
JUNE 1989 VERSION
PAGE 3

JOB: Otay Mesa and Harvest 2020 am
RUN: Hour 1 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

IV. MODEL RESULTS (WORST CASE WIND ANGLE)

RECEPTOR	BRG (DEG)	PRED CONC (PPM)	CONC/LINK (PPM) A	B	C	D	E	F	G	H
1. 1	11.	0.4	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.1
2. 2	288.	0.3	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.1
3. 3	68.	0.4	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.1
4. 4	9.	0.2	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.1
5. 5	7.	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6. 6	286.	0.4	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.1
7. 7	283.	0.4	0.0	0.1	0.0	0.1	0.0	0.0	0.0	0.1
8. 8	283.	0.4	0.0	0.1	0.0	0.2	0.0	0.0	0.0	0.1
9. 9	348.	0.2	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0
10. 10	350.	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11. 11	103.	0.4	0.0	0.0	0.0	0.1	0.0	0.2	0.0	0.0
12. 12	108.	0.4	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.1
13. 13	106.	0.4	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.2
14. 14	114.	0.2	0.0	0.0	0.0	0.1	0.0	0.1	0.0	0.0
15. 15	121.	0.2	0.0	0.0	0.0	0.1	0.0	0.1	0.0	0.0
16. 16	252.	0.4	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.2
17. 17	256.	0.4	0.0	0.1	0.0	0.0	0.0	0.1	0.0	0.1
18. 18	258.	0.4	0.0	0.1	0.0	0.0	0.0	0.1	0.0	0.1
19. 19	246.	0.2	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.1
20. 20	235.	0.2	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.1

JOB: Otay Mesa and Harvest 2020 am
RUN: Hour 1 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

IV. MODEL RESULTS (WORST CASE WIND ANGLE) (CONT.)

RECEPTOR	*	CONC/LINK (PPM) I	J	K	L	M	N	O	P
1. 1	*	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0
2. 2	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3. 3	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4. 4	*	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0
5. 5	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6. 6	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7. 7	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8. 8	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9. 9	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10. 10	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11. 11	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12. 12	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13. 13	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14. 14	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15. 15	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16. 16	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17. 17	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18. 18	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19. 19	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20. 20	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL
JUNE 1989 VERSION
PAGE 1

JOB: Otay Mesa and Harvest 2020 pm
RUN: Hour 1 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

I. SITE VARIABLES

U= 0.5 M/S Z0= 100. CM ALT= 0. (M)
BRG= WORST CASE VD= 0.0 CM/S
CLAS= 7 (G) VS= 0.0 CM/S
MIXH= 1000. M AMB= 0.0 PPM
SIGTH= 10. DEGREES TEMP= 19.0 DEGREE (C)

II. LINK VARIABLES

LINK DESCRIPTION	*	LINK COORDINATES (M) X1	Y1	X2	Y2	* TYPE	VPH	EF (G/MI)	H (M)	W (M)
A. OM WBLA	*	-150	0	0	0	* AG	650	1.2	0.0	10.0
B. OM WBTA	*	-150	-6	0	-6	* AG	1670	1.2	0.0	10.0
C. OM WBRA	*	-150	-7	0	-7	* AG	20	1.2	0.0	10.0
D. OM WBD	*	0	-6	150	-6	* AG	1780	1.2	0.0	10.0
E. OM EBLA	*	150	6	0	6	* AG	10	1.2	0.0	10.0
F. OM EBTA	*	150	7	0	7	* AG	2130	1.2	0.0	10.0
G. OM EBRA	*	150	6	0	6	* AG	110	1.2	0.0	10.0
H. OM EBD	*	0	6	-150	6	* AG	2630	1.2	0.0	10.0
I. Harvest NBLA	*	0	-150	0	0	* AG	10	1.2	0.0	10.0
J. Harvest NBTA	*	4	-150	4	0	* AG	10	1.2	0.0	10.0
K. Harvest NBRA	*	5	-150	5	0	* AG	10	1.2	0.0	10.0
L. Harvest NBD	*	4	0	4	150	* AG	770	1.2	0.0	10.0
M. Harvest SBLA	*	0	150	0	0	* AG	100	1.2	0.0	10.0
N. Harvest SBTA	*	-4	150	-4	0	* AG	10	1.2	0.0	10.0

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  O. Harvest SBRA *    -6   150    -6     0 *  AG    490   1.2    0.0
10.0
  P. Harvest SBD  *    -4     0    -4  -150 *  AG     40   1.2    0.0
10.0
```

JOB: Otay Mesa and Harvest 2020 pm
RUN: Hour 1 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

III. RECEPTOR LOCATIONS

RECEPTOR	*	COORDINATES (M) X	Y	Z
1. 1	*	-14	-15	1.8
2. 2	*	-34	-15	1.8
3. 3	*	-54	-15	1.8
4. 4	*	-14	-35	1.8
5. 5	*	-14	-55	1.8
6. 6	*	15	-15	1.8
7. 7	*	35	-15	1.8
8. 8	*	55	-15	1.8
9. 9	*	15	-35	1.8
10. 10	*	15	-55	1.8
11. 11	*	-15	15	1.8
12. 12	*	-35	15	1.8
13. 13	*	-55	15	1.8
14. 14	*	-15	35	1.8
15. 15	*	-15	55	1.8
16. 16	*	14	17	1.8
17. 17	*	34	17	1.8
18. 18	*	54	17	1.8
19. 19	*	14	37	1.8
20. 20	*	14	57	1.8

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL
JUNE 1989 VERSION
PAGE 3

JOB: Otay Mesa and Harvest 2020 pm
RUN: Hour 1 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

IV. MODEL RESULTS (WORST CASE WIND ANGLE)

RECEPTOR	BRG (DEG)	PRED CONC (PPM)	CONC/LINK (PPM) A	B	C	D	E	F	G	H
1. 1	12.	0.4	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.1
2. 2	55.	0.4	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.1
3. 3	66.	0.4	0.0	0.2	0.0	0.0	0.0	0.1	0.0	0.1
4. 4	9.	0.3	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.1
5. 5	8.	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6. 6	286.	0.4	0.1	0.2	0.0	0.0	0.0	0.0	0.0	0.1
7. 7	283.	0.4	0.1	0.1	0.0	0.1	0.0	0.0	0.0	0.1
8. 8	283.	0.4	0.0	0.1	0.0	0.1	0.0	0.0	0.0	0.1
9. 9	349.	0.2	0.0	0.0	0.0	0.1	0.0	0.1	0.0	0.0
10. 10	351.	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11. 11	103.	0.4	0.0	0.0	0.0	0.1	0.0	0.2	0.0	0.0
12. 12	103.	0.4	0.0	0.0	0.0	0.1	0.0	0.1	0.0	0.1
13. 13	106.	0.4	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.2
14. 14	114.	0.3	0.0	0.0	0.0	0.1	0.0	0.1	0.0	0.0
15. 15	121.	0.2	0.0	0.0	0.0	0.1	0.0	0.1	0.0	0.0
16. 16	252.	0.5	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.2
17. 17	256.	0.5	0.1	0.1	0.0	0.0	0.0	0.1	0.0	0.2
18. 18	258.	0.4	0.0	0.1	0.0	0.0	0.0	0.1	0.0	0.1
19. 19	247.	0.3	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.1
20. 20	236.	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1

JOB: Otay Mesa and Harvest 2020 pm
RUN: Hour 1 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

IV. MODEL RESULTS (WORST CASE WIND ANGLE) (CONT.)

RECEPTOR	*	CONC/LINK (PPM) I	J	K	L	M	N	O	P
1. 1	*	0.0	0.0	0.0	0.1	0.0	0.0	0.1	0.0
2. 2	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3. 3	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4. 4	*	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0
5. 5	*	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0
6. 6	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7. 7	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8. 8	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9. 9	*	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0
10. 10	*	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0
11. 11	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12. 12	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13. 13	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14. 14	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15. 15	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16. 16	*	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0
17. 17	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18. 18	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19. 19	*	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0
20. 20	*	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL
JUNE 1989 VERSION
PAGE 1

JOB: Otay Mesa and Harvest E+P am
RUN: Hour 1 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

I. SITE VARIABLES

U=	0.5 M/S	Z0=	100. CM	ALT=	0. (M)
BRG=	WORST CASE	VD=	0.0 CM/S		
CLAS=	7 (G)	VS=	0.0 CM/S		
MIXH=	1000. M	AMB=	0.0 PPM		
SIGTH=	10. DEGREES	TEMP=	19.0 DEGREE (C)		

II. LINK VARIABLES

LINK DESCRIPTION	*	LINK COORDINATES (M) X1	Y1	X2	Y2	* TYPE	VPH	EF (G/MI)	H (M)	W (M)
A. OM WBLA	*	-150	0	0	0	* AG	342	1.2	0.0	10.0
B. OM WBTA	*	-150	-6	0	-6	* AG	1569	1.2	0.0	10.0
C. OM WBRA	*	-150	-7	0	-7	* AG	1	1.2	0.0	10.0
D. OM WBD	*	0	-6	150	-6	* AG	1638	1.2	0.0	10.0
E. OM EBLA	*	150	6	0	6	* AG	0	1.2	0.0	10.0
F. OM EBTA	*	150	7	0	7	* AG	1043	1.2	0.0	10.0
G. OM EBRA	*	150	6	0	6	* AG	45	1.2	0.0	10.0
H. OM EBD	*	0	6	-150	6	* AG	1573	1.2	0.0	10.0
I. Harvest NBLA	*	0	-150	0	0	* AG	1	1.2	0.0	10.0
J. Harvest NBTA	*	4	-150	4	0	* AG	0	1.2	0.0	10.0
K. Harvest NBRA	*	5	-150	5	0	* AG	0	1.2	0.0	10.0
L. Harvest NBD	*	4	0	4	150	* AG	387	1.2	0.0	10.0
M. Harvest SBLA	*	0	150	0	0	* AG	69	1.2	0.0	10.0
N. Harvest SBTA	*	-4	150	-4	0	* AG	0	1.2	0.0	10.0

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  O. Harvest SBRA *    -6   150    -6     0 *  AG    529   1.2    0.0
10.0
  P. Harvest SBD  *    -4     0    -4  -150 *  AG      1   1.2    0.0
10.0
```

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL
JUNE 1989 VERSION
PAGE 2

JOB: Otay Mesa and Harvest E+P am
RUN: Hour 1 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

III. RECEPTOR LOCATIONS

RECEPTOR	*	COORDINATES (M) X	Y	Z
1. 1	*	-14	-15	1.8
2. 2	*	-34	-15	1.8
3. 3	*	-54	-15	1.8
4. 4	*	-14	-35	1.8
5. 5	*	-14	-55	1.8
6. 6	*	15	-15	1.8
7. 7	*	35	-15	1.8
8. 8	*	55	-15	1.8
9. 9	*	15	-35	1.8
10. 10	*	15	-55	1.8
11. 11	*	-15	15	1.8
12. 12	*	-35	15	1.8
13. 13	*	-55	15	1.8
14. 14	*	-15	35	1.8
15. 15	*	-15	55	1.8
16. 16	*	14	17	1.8
17. 17	*	34	17	1.8
18. 18	*	54	17	1.8
19. 19	*	14	37	1.8
20. 20	*	14	57	1.8

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL
JUNE 1989 VERSION
PAGE 3

JOB: Otay Mesa and Harvest E+P am
RUN: Hour 1 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

IV. MODEL RESULTS (WORST CASE WIND ANGLE)

RECEPTOR	BRG (DEG)	PRED CONC (PPM)	CONC/LINK (PPM) A	B	C	D	E	F	G	H
1. 1	11.	0.3	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.1
2. 2	288.	0.3	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.1
3. 3	66.	0.3	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.1
4. 4	9.	0.2	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0
5. 5	7.	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6. 6	286.	0.3	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.1
7. 7	283.	0.3	0.0	0.1	0.0	0.1	0.0	0.0	0.0	0.1
8. 8	282.	0.3	0.0	0.1	0.0	0.1	0.0	0.0	0.0	0.1
9. 9	348.	0.2	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0
10. 10	350.	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11. 11	103.	0.3	0.0	0.0	0.0	0.1	0.0	0.1	0.0	0.0
12. 12	108.	0.3	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.1
13. 13	106.	0.3	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.1
14. 14	114.	0.2	0.0	0.0	0.0	0.1	0.0	0.1	0.0	0.0
15. 15	121.	0.2	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0
16. 16	253.	0.3	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.1
17. 17	257.	0.3	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.1
18. 18	258.	0.3	0.0	0.1	0.0	0.0	0.0	0.1	0.0	0.1
19. 19	247.	0.2	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.1
20. 20	239.	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1

JOB: Otay Mesa and Harvest E+P am
RUN: Hour 1 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

IV. MODEL RESULTS (WORST CASE WIND ANGLE) (CONT.)

RECEPTOR	*	CONC/LINK (PPM) I	J	K	L	M	N	O	P
1. 1	*	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0
2. 2	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3. 3	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4. 4	*	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0
5. 5	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6. 6	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7. 7	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8. 8	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9. 9	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10. 10	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11. 11	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12. 12	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13. 13	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14. 14	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15. 15	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16. 16	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17. 17	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18. 18	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19. 19	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20. 20	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL
JUNE 1989 VERSION
PAGE 1

JOB: Otay Mesa and Harvest E+P pm
RUN: Hour 1 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

I. SITE VARIABLES

U=	0.5 M/S	Z0=	100. CM	ALT=	0. (M)
BRG=	WORST CASE	VD=	0.0 CM/S		
CLAS=	7 (G)	VS=	0.0 CM/S		
MIXH=	1000. M	AMB=	0.0 PPM		
SIGTH=	10. DEGREES	TEMP=	19.0 DEGREE (C)		

II. LINK VARIABLES

LINK DESCRIPTION	*	LINK COORDINATES (M) X1	Y1	X2	Y2	* TYPE	VPH	EF (G/MI)	H (M)	W (M)
A. OM WBLA	*	-150	0	0	0	* AG	625	1.2	0.0	10.0
B. OM WBTA	*	-150	-6	0	-6	* AG	1197	1.2	0.0	10.0
C. OM WBRA	*	-150	-7	0	-7	* AG	1	1.2	0.0	10.0
D. OM WBD	*	0	-6	150	-6	* AG	1256	1.2	0.0	10.0
E. OM EBLA	*	150	6	0	6	* AG	0	1.2	0.0	10.0
F. OM EBTA	*	150	7	0	7	* AG	1591	1.2	0.0	10.0
G. OM EBRA	*	150	6	0	6	* AG	80	1.2	0.0	10.0
H. OM EBD	*	0	6	-150	6	* AG	2120	1.2	0.0	10.0
I. Harvest NBLA	*	0	-150	0	0	* AG	0	1.2	0.0	10.0
J. Harvest NBTA	*	4	-150	4	0	* AG	0	1.2	0.0	10.0
K. Harvest NBRA	*	5	-150	5	0	* AG	0	1.2	0.0	10.0
L. Harvest NBD	*	4	0	4	150	* AG	705	1.2	0.0	10.0
M. Harvest SBLA	*	0	150	0	0	* AG	59	1.2	0.0	10.0
N. Harvest SBTA	*	-4	150	-4	0	* AG	0	1.2	0.0	10.0

```
  O. Harvest SBRA *    -6   150    -6     0 *  AG    465   1.2    0.0
10.0
  P. Harvest SBD  *    -4     0    -4  -150 *  AG      0   1.2    0.0
10.0
```

JOB: Otay Mesa and Harvest E+P pm
RUN: Hour 1 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

III. RECEPTOR LOCATIONS

RECEPTOR	*	COORDINATES (M) X	Y	Z
1. 1	*	-14	-15	1.8
2. 2	*	-34	-15	1.8
3. 3	*	-54	-15	1.8
4. 4	*	-14	-35	1.8
5. 5	*	-14	-55	1.8
6. 6	*	15	-15	1.8
7. 7	*	35	-15	1.8
8. 8	*	55	-15	1.8
9. 9	*	15	-35	1.8
10. 10	*	15	-55	1.8
11. 11	*	-15	15	1.8
12. 12	*	-35	15	1.8
13. 13	*	-55	15	1.8
14. 14	*	-15	35	1.8
15. 15	*	-15	55	1.8
16. 16	*	14	17	1.8
17. 17	*	34	17	1.8
18. 18	*	54	17	1.8
19. 19	*	14	37	1.8
20. 20	*	14	57	1.8

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL
JUNE 1989 VERSION
PAGE 3

JOB: Otay Mesa and Harvest E+P pm
RUN: Hour 1 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

IV. MODEL RESULTS (WORST CASE WIND ANGLE)

RECEPTOR	BRG (DEG)	PRED CONC (PPM)	CONC/LINK (PPM) A	B	C	D	E	F	G	H
1. 1	12.	0.3	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.1
2. 2	288.	0.3	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.1
3. 3	66.	0.3	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.1
4. 4	9.	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
5. 5	7.	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6. 6	286.	0.3	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.1
7. 7	283.	0.3	0.1	0.1	0.0	0.1	0.0	0.0	0.0	0.1
8. 8	282.	0.3	0.0	0.1	0.0	0.1	0.0	0.0	0.0	0.1
9. 9	349.	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10. 10	351.	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11. 11	103.	0.3	0.0	0.0	0.0	0.1	0.0	0.2	0.0	0.0
12. 12	252.	0.3	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.2
13. 13	106.	0.3	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.2
14. 14	112.	0.2	0.0	0.0	0.0	0.1	0.0	0.1	0.0	0.0
15. 15	121.	0.2	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0
16. 16	253.	0.4	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.2
17. 17	256.	0.4	0.1	0.1	0.0	0.0	0.0	0.1	0.0	0.1
18. 18	258.	0.4	0.0	0.1	0.0	0.0	0.0	0.1	0.0	0.1
19. 19	247.	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
20. 20	236.	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1

JOB: Otay Mesa and Harvest E+P pm
RUN: Hour 1 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

IV. MODEL RESULTS (WORST CASE WIND ANGLE) (CONT.)

RECEPTOR	*	CONC/LINK (PPM) I	J	K	L	M	N	O	P
1. 1	*	0.0	0.0	0.0	0.1	0.0	0.0	0.1	0.0
2. 2	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3. 3	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4. 4	*	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0
5. 5	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6. 6	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7. 7	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8. 8	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9. 9	*	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0
10. 10	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11. 11	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12. 12	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13. 13	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14. 14	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15. 15	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16. 16	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17. 17	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18. 18	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19. 19	*	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0
20. 20	*	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL
JUNE 1989 VERSION
PAGE 1

JOB: Otay Mesa and La Media 2020 am
RUN: Hour 1 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

I. SITE VARIABLES

U=	0.5 M/S	Z0=	100. CM	ALT=	0. (M)
BRG=	WORST CASE	VD=	0.0 CM/S		
CLAS=	7 (G)	VS=	0.0 CM/S		
MIXH=	1000. M	AMB=	0.0 PPM		
SIGTH=	10. DEGREES	TEMP=	19.0 DEGREE (C)		

II. LINK VARIABLES

LINK DESCRIPTION	*	LINK COORDINATES (M) X1	Y1	X2	Y2	* TYPE	VPH	EF (G/MI)	H (M)	W (M)
A. OM WBLA	*	-150	0	0	0	* AG	120	1.2	0.0	10.0
B. OM WBTA	*	-150	-6	0	-6	* AG	750	1.2	0.0	10.0
C. OM WBRA	*	-150	-7	0	-7	* AG	240	1.2	0.0	10.0
D. OM WBD	*	0	-6	150	-6	* AG	880	1.2	0.0	10.0
E. OM EBLA	*	150	6	0	6	* AG	110	1.2	0.0	10.0
F. OM EBTA	*	150	7	0	7	* AG	430	1.2	0.0	10.0
G. OM EBRA	*	150	6	0	6	* AG	80	1.2	0.0	10.0
H. OM EBD	*	0	6	-150	6	* AG	630	1.2	0.0	10.0
I. La Media NBL	*	0	-150	0	0	* AG	80	1.2	0.0	10.0
J. La Media NBT	*	4	-150	4	0	* AG	60	1.2	0.0	10.0
K. La Media NBR	*	5	-150	5	0	* AG	20	1.2	0.0	10.0
L. La Media NBD	*	4	0	4	150	* AG	260	1.2	0.0	10.0
M. La Media SBL	*	0	150	0	0	* AG	110	1.2	0.0	10.0
N. La Media SBT	*	-4	150	-4	0	* AG	130	1.2	0.0	10.0

```
  O. La Media SBR *    -6   150    -6     0 *  AG    120   1.2    0.0
10.0
  P. La Media SBD *    -4     0    -4  -150 *  AG    480   1.2    0.0
10.0
```

JOB: Otay Mesa and La Media 2020 am
RUN: Hour 1 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

III. RECEPTOR LOCATIONS

RECEPTOR	*	COORDINATES (M) X	Y	Z
1. 1	*	-14	-15	1.8
2. 2	*	-34	-15	1.8
3. 3	*	-54	-15	1.8
4. 4	*	-14	-35	1.8
5. 5	*	-14	-55	1.8
6. 6	*	15	-15	1.8
7. 7	*	35	-15	1.8
8. 8	*	55	-15	1.8
9. 9	*	15	-35	1.8
10. 10	*	15	-55	1.8
11. 11	*	-15	15	1.8
12. 12	*	-35	15	1.8
13. 13	*	-55	15	1.8
14. 14	*	-15	35	1.8
15. 15	*	-15	55	1.8
16. 16	*	14	17	1.8
17. 17	*	34	17	1.8
18. 18	*	54	17	1.8
19. 19	*	14	37	1.8
20. 20	*	14	57	1.8

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL
JUNE 1989 VERSION
PAGE 3

JOB: Otay Mesa and La Media 2020 am
RUN: Hour 1 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

IV. MODEL RESULTS (WORST CASE WIND ANGLE)

RECEPTOR	BRG (DEG)	PRED CONC (PPM)	CONC/LINK (PPM) A	B	C	D	E	F	G	H
1. 1	75.	0.2	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0
2. 2	76.	0.2	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0
3. 3	77.	0.2	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0
4. 4	12.	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5. 5	11.	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6. 6	283.	0.2	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0
7. 7	282.	0.2	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0
8. 8	281.	0.2	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0
9. 9	292.	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10. 10	349.	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11. 11	103.	0.2	0.0	0.0	0.0	0.1	0.0	0.1	0.0	0.0
12. 12	102.	0.2	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0
13. 13	102.	0.2	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.1
14. 14	169.	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15. 15	170.	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16. 16	253.	0.2	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.1
17. 17	256.	0.2	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.1
18. 18	257.	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19. 19	196.	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20. 20	193.	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

JOB: Otay Mesa and La Media 2020 am
RUN: Hour 1 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

IV. MODEL RESULTS (WORST CASE WIND ANGLE) (CONT.)

RECEPTOR	*	CONC/LINK (PPM) I	J	K	L	M	N	O	P
1. 1	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2. 2	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3. 3	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4. 4	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5. 5	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6. 6	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7. 7	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8. 8	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9. 9	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10. 10	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11. 11	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12. 12	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13. 13	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14. 14	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15. 15	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16. 16	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17. 17	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18. 18	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19. 19	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20. 20	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL
JUNE 1989 VERSION
PAGE 1

JOB: Otay Mesa and La Media 2020 pm
RUN: Hour 1 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

I. SITE VARIABLES

U=	0.5 M/S	Z0=	100. CM	ALT=	0. (M)
BRG=	WORST CASE	VD=	0.0 CM/S		
CLAS=	7 (G)	VS=	0.0 CM/S		
MIXH=	1000. M	AMB=	0.0 PPM		
SIGTH=	10. DEGREES	TEMP=	19.0 DEGREE (C)		

II. LINK VARIABLES

LINK DESCRIPTION	*	LINK COORDINATES (M) X1	Y1	X2	Y2	* TYPE	VPH	EF (G/MI)	H (M)	W (M)
A. OM WBLA	*	-150	0	0	0	* AG	120	1.2	0.0	10.0
B. OM WBTA	*	-150	-6	0	-6	* AG	610	1.2	0.0	10.0
C. OM WBRA	*	-150	-7	0	-7	* AG	250	1.2	0.0	10.0
D. OM WBD	*	0	-6	150	-6	* AG	750	1.2	0.0	10.0
E. OM EBLA	*	150	6	0	6	* AG	70	1.2	0.0	10.0
F. OM EBTA	*	150	7	0	7	* AG	1200	1.2	0.0	10.0
G. OM EBRA	*	150	6	0	6	* AG	60	1.2	0.0	10.0
H. OM EBD	*	0	6	-150	6	* AG	1560	1.2	0.0	10.0
I. La Media NBL	*	0	-150	0	0	* AG	170	1.2	0.0	10.0
J. La Media NBT	*	4	-150	4	0	* AG	60	1.2	0.0	10.0
K. La Media NBR	*	5	-150	5	0	* AG	30	1.2	0.0	10.0
L. La Media NBD	*	4	0	4	150	* AG	240	1.2	0.0	10.0
M. La Media SBL	*	0	150	0	0	* AG	120	1.2	0.0	10.0
N. La Media SBT	*	-4	150	-4	0	* AG	160	1.2	0.0	10.0

```
  O. La Media SBR *    -6   150    -6     0 *  AG    190   1.2    0.0
10.0
  P. La Media SBD *    -4     0    -4  -150 *  AG    480   1.2    0.0
10.0
```

JOB: Otay Mesa and La Media 2020 pm
RUN: Hour 1 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

III. RECEPTOR LOCATIONS

RECEPTOR	*	COORDINATES (M) X	Y	Z
1. 1	*	-14	-15	1.8
2. 2	*	-34	-15	1.8
3. 3	*	-54	-15	1.8
4. 4	*	-14	-35	1.8
5. 5	*	-14	-55	1.8
6. 6	*	15	-15	1.8
7. 7	*	35	-15	1.8
8. 8	*	55	-15	1.8
9. 9	*	15	-35	1.8
10. 10	*	15	-55	1.8
11. 11	*	-15	15	1.8
12. 12	*	-35	15	1.8
13. 13	*	-55	15	1.8
14. 14	*	-15	35	1.8
15. 15	*	-15	55	1.8
16. 16	*	14	17	1.8
17. 17	*	34	17	1.8
18. 18	*	54	17	1.8
19. 19	*	14	37	1.8
20. 20	*	14	57	1.8

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL
JUNE 1989 VERSION
PAGE 3

JOB: Otay Mesa and La Media 2020 pm
RUN: Hour 1 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

IV. MODEL RESULTS (WORST CASE WIND ANGLE)

RECEPTOR	BRG (DEG)	PRED CONC (PPM)	CONC/LINK (PPM) A	B	C	D	E	F	G	H
1. 1	72.	0.2	0.0	0.0	0.0	0.1	0.0	0.1	0.0	0.0
2. 2	72.	0.2	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0
3. 3	73.	0.2	0.0	0.1	0.0	0.0	0.0	0.1	0.0	0.0
4. 4	11.	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5. 5	10.	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6. 6	283.	0.3	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.1
7. 7	282.	0.2	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.1
8. 8	281.	0.2	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.1
9. 9	293.	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
10. 10	347.	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11. 11	102.	0.3	0.0	0.0	0.0	0.1	0.0	0.1	0.0	0.0
12. 12	102.	0.2	0.0	0.0	0.0	0.1	0.0	0.1	0.0	0.1
13. 13	103.	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
14. 14	168.	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
15. 15	170.	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16. 16	253.	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
17. 17	256.	0.3	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.1
18. 18	258.	0.3	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.1
19. 19	247.	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
20. 20	193.	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

JOB: Otay Mesa and La Media 2020 pm
RUN: Hour 1 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

IV. MODEL RESULTS (WORST CASE WIND ANGLE) (CONT.)

RECEPTOR	*	CONC/LINK (PPM) I	J	K	L	M	N	O	P
1. 1	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2. 2	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3. 3	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4. 4	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5. 5	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6. 6	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7. 7	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8. 8	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9. 9	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10. 10	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11. 11	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12. 12	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13. 13	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14. 14	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15. 15	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16. 16	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17. 17	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18. 18	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19. 19	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20. 20	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL
JUNE 1989 VERSION
PAGE 1

JOB: Otay Mesa and La Media E+P am
RUN: Hour 1 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

I. SITE VARIABLES

U=	0.5 M/S	Z0=	100. CM	ALT=	0. (M)
BRG=	WORST CASE	VD=	0.0 CM/S		
CLAS=	7 (G)	VS=	0.0 CM/S		
MIXH=	1000. M	AMB=	0.0 PPM		
SIGTH=	10. DEGREES	TEMP=	19.0 DEGREE (C)		

II. LINK VARIABLES

LINK DESCRIPTION	*	LINK COORDINATES (M) X1	Y1	X2	Y2	* TYPE	VPH	EF (G/MI)	H (M)	W (M)
A. OM WBLA	*	-150	0	0	0	* AG	36	1.2	0.0	10.0
B. OM WBTA	*	-150	-6	0	-6	* AG	360	1.2	0.0	10.0
C. OM WBRA	*	-150	-7	0	-7	* AG	64	1.2	0.0	10.0
D. OM WBD	*	0	-6	150	-6	* AG	1355	1.2	0.0	10.0
E. OM EBLA	*	150	6	0	6	* AG	780	1.2	0.0	10.0
F. OM EBTA	*	150	7	0	7	* AG	477	1.2	0.0	10.0
G. OM EBRA	*	150	6	0	6	* AG	50	1.2	0.0	10.0
H. OM EBD	*	0	6	-150	6	* AG	527	1.2	0.0	10.0
I. La Media NBL	*	0	-150	0	0	* AG	35	1.2	0.0	10.0
J. La Media NBT	*	4	-150	4	0	* AG	84	1.2	0.0	10.0
K. La Media NBR	*	5	-150	5	0	* AG	961	1.2	0.0	10.0
L. La Media NBD	*	4	0	4	150	* AG	170	1.2	0.0	10.0
M. La Media SBL	*	0	150	0	0	* AG	34	1.2	0.0	10.0
N. La Media SBT	*	-4	150	-4	0	* AG	65	1.2	0.0	10.0

```
  O. La Media SBR *    -6   150    -6     0 *  AG     15   1.2    0.0
10.0
  P. La Media SBD *    -4     0    -4  -150 *  AG    909   1.2    0.0
10.0
```

JOB: Otay Mesa and La Media E+P am
RUN: Hour 1 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

III. RECEPTOR LOCATIONS

RECEPTOR	*	COORDINATES (M) X	Y	Z
1. 1	*	-14	-15	1.8
2. 2	*	-34	-15	1.8
3. 3	*	-54	-15	1.8
4. 4	*	-14	-35	1.8
5. 5	*	-14	-55	1.8
6. 6	*	15	-15	1.8
7. 7	*	35	-15	1.8
8. 8	*	55	-15	1.8
9. 9	*	15	-35	1.8
10. 10	*	15	-55	1.8
11. 11	*	-15	15	1.8
12. 12	*	-35	15	1.8
13. 13	*	-55	15	1.8
14. 14	*	-15	35	1.8
15. 15	*	-15	55	1.8
16. 16	*	14	17	1.8
17. 17	*	34	17	1.8
18. 18	*	54	17	1.8
19. 19	*	14	37	1.8
20. 20	*	14	57	1.8

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL
JUNE 1989 VERSION
PAGE 3

JOB: Otay Mesa and La Media E+P am
RUN: Hour 1 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

IV. MODEL RESULTS (WORST CASE WIND ANGLE)

RECEPTOR	BRG (DEG)	PRED CONC (PPM)	CONC/LINK (PPM) A	B	C	D	E	F	G	H
1. 1	76.	0.4	0.0	0.0	0.0	0.1	0.1	0.0	0.0	0.0
2. 2	78.	0.3	0.0	0.0	0.0	0.1	0.1	0.0	0.0	0.0
3. 3	80.	0.2	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0
4. 4	65.	0.3	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0
5. 5	29.	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6. 6	303.	0.2	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0
7. 7	72.	0.2	0.0	0.0	0.0	0.1	0.1	0.0	0.0	0.0
8. 8	71.	0.2	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0
9. 9	333.	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10. 10	336.	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11. 11	102.	0.3	0.0	0.0	0.0	0.1	0.1	0.1	0.0	0.0
12. 12	101.	0.2	0.0	0.0	0.0	0.1	0.1	0.0	0.0	0.0
13. 13	101.	0.2	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0
14. 14	168.	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15. 15	170.	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16. 16	191.	0.3	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0
17. 17	202.	0.3	0.0	0.0	0.0	0.1	0.1	0.0	0.0	0.0
18. 18	238.	0.2	0.0	0.0	0.0	0.1	0.1	0.0	0.0	0.0
19. 19	189.	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20. 20	187.	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

JOB: Otay Mesa and La Media E+P am
RUN: Hour 1 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

IV. MODEL RESULTS (WORST CASE WIND ANGLE) (CONT.)

RECEPTOR	*	CONC/LINK (PPM) I	J	K	L	M	N	O	P
1. 1	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
2. 2	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3. 3	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4. 4	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
5. 5	*	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.1
6. 6	*	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0
7. 7	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8. 8	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9. 9	*	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0
10. 10	*	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0
11. 11	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12. 12	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13. 13	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14. 14	*	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.1
15. 15	*	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.1
16. 16	*	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.1
17. 17	*	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0
18. 18	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19. 19	*	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.1
20. 20	*	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.1

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL
JUNE 1989 VERSION
PAGE 1

JOB: Otay Mesa and La Media E+P pm
RUN: Hour 1 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

I. SITE VARIABLES

U=	0.5 M/S	Z0=	100. CM	ALT=	0. (M)
BRG=	WORST CASE	VD=	0.0 CM/S		
CLAS=	7 (G)	VS=	0.0 CM/S		
MIXH=	1000. M	AMB=	0.0 PPM		
SIGTH=	10. DEGREES	TEMP=	19.0 DEGREE (C)		

II. LINK VARIABLES

LINK DESCRIPTION	*	LINK COORDINATES (M) X1	Y1	X2	Y2	* TYPE	VPH	EF (G/MI)	H (M)	W (M)
A. OM WBLA	*	-150	0	0	0	* AG	38	1.2	0.0	10.0
B. OM WBTA	*	-150	-6	0	-6	* AG	505	1.2	0.0	10.0
C. OM WBRA	*	-150	-7	0	-7	* AG	131	1.2	0.0	10.0
D. OM WBD	*	0	-6	150	-6	* AG	1352	1.2	0.0	10.0
E. OM EBLA	*	150	6	0	6	* AG	796	1.2	0.0	10.0
F. OM EBTA	*	150	7	0	7	* AG	548	1.2	0.0	10.0
G. OM EBRA	*	150	6	0	6	* AG	67	1.2	0.0	10.0
H. OM EBD	*	0	6	-150	6	* AG	653	1.2	0.0	10.0
I. La Media NBL	*	0	-150	0	0	* AG	74	1.2	0.0	10.0
J. La Media NBT	*	4	-150	4	0	* AG	80	1.2	0.0	10.0
K. La Media NBR	*	5	-150	5	0	* AG	791	1.2	0.0	10.0
L. La Media NBD	*	4	0	4	150	* AG	185	1.2	0.0	10.0
M. La Media SBL	*	0	150	0	0	* AG	56	1.2	0.0	10.0
N. La Media SBT	*	-4	150	-4	0	* AG	143	1.2	0.0	10.0

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  O. La Media SBR *    -6   150    -6     0 *  AG     31   1.2    0.0
10.0
  P. La Media SBD *    -4     0    -4  -150 *  AG   1070   1.2    0.0
10.0
```

JOB: Otay Mesa and La Media E+P pm
RUN: Hour 1 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

III. RECEPTOR LOCATIONS

RECEPTOR	COORDINATES (M) X	Y	Z
1. 1	-14	-15	1.8
2. 2	-34	-15	1.8
3. 3	-54	-15	1.8
4. 4	-14	-35	1.8
5. 5	-14	-55	1.8
6. 6	15	-15	1.8
7. 7	35	-15	1.8
8. 8	55	-15	1.8
9. 9	15	-35	1.8
10. 10	15	-55	1.8
11. 11	-15	15	1.8
12. 12	-35	15	1.8
13. 13	-55	15	1.8
14. 14	-15	35	1.8
15. 15	-15	55	1.8
16. 16	14	17	1.8
17. 17	34	17	1.8
18. 18	54	17	1.8
19. 19	14	37	1.8
20. 20	14	57	1.8

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL
JUNE 1989 VERSION
PAGE 3

JOB: Otay Mesa and La Media E+P pm
RUN: Hour 1 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

IV. MODEL RESULTS (WORST CASE WIND ANGLE)

RECEPTOR	BRG (DEG)	PRED CONC (PPM)	CONC/LINK (PPM) A	B	C	D	E	F	G	H
1. 1	76.	0.4	0.0	0.0	0.0	0.1	0.1	0.0	0.0	0.0
2. 2	78.	0.3	0.0	0.0	0.0	0.1	0.1	0.0	0.0	0.0
3. 3	80.	0.3	0.0	0.0	0.0	0.1	0.1	0.0	0.0	0.0
4. 4	65.	0.3	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0
5. 5	27.	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6. 6	288.	0.3	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0
7. 7	288.	0.2	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0
8. 8	286.	0.2	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0
9. 9	331.	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10. 10	336.	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11. 11	102.	0.3	0.0	0.0	0.0	0.1	0.1	0.1	0.0	0.0
12. 12	101.	0.3	0.0	0.0	0.0	0.1	0.1	0.0	0.0	0.0
13. 13	101.	0.2	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0
14. 14	168.	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15. 15	170.	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16. 16	191.	0.3	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0
17. 17	202.	0.3	0.0	0.0	0.0	0.1	0.1	0.0	0.0	0.0
18. 18	242.	0.3	0.0	0.0	0.0	0.1	0.1	0.1	0.0	0.0
19. 19	189.	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20. 20	188.	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

JOB: Otay Mesa and La Media E+P pm
RUN: Hour 1 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

IV. MODEL RESULTS (WORST CASE WIND ANGLE) (CONT.)

RECEPTOR	CONC/LINK (PPM) I	J	K	L	M	N	O	P
1. 1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
2. 2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3. 3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4. 4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
5. 5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
6. 6	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.1
7. 7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8. 8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9. 9	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0
10. 10	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.1
11. 11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12. 12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13. 13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14. 14	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.1
15. 15	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.1
16. 16	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.1
17. 17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18. 18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19. 19	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.1
20. 20	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.1

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL
JUNE 1989 VERSION
PAGE 1

JOB: Otay Mesa and Sanyo 2020 am
RUN: Hour 1 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

I. SITE VARIABLES

U=	0.5 M/S	Z0=	100. CM	ALT=	0. (M)
BRG=	WORST CASE	VD=	0.0 CM/S		
CLAS=	7 (G)	VS=	0.0 CM/S		
MIXH=	1000. M	AMB=	0.0 PPM		
SIGTH=	10. DEGREES	TEMP=	19.0 DEGREE (C)		

II. LINK VARIABLES

LINK DESCRIPTION	*	LINK COORDINATES (M) X1	Y1	X2	Y2	* TYPE	VPH	EF (G/MI)	H (M)	W (M)
A. OM WBLA	*	-150	0	0	0	* AG	360	1.2	0.0	10.0
B. OM WBTA	*	-150	-6	0	-6	* AG	1440	1.2	0.0	10.0
C. OM WBRA	*	-150	-7	0	-7	* AG	280	1.2	0.0	10.0
D. OM WBD	*	0	-6	150	-6	* AG	1550	1.2	0.0	10.0
E. OM EBLA	*	150	6	0	6	* AG	40	1.2	0.0	10.0
F. OM EBTA	*	150	7	0	7	* AG	970	1.2	0.0	10.0
G. OM EBRA	*	150	6	0	6	* AG	40	1.2	0.0	10.0
H. OM EBD	*	0	6	-150	6	* AG	1500	1.2	0.0	10.0
I. Sanyo NBL	*	0	-150	0	0	* AG	100	1.2	0.0	10.0
J. Sanyo NBT	*	4	-150	4	0	* AG	40	1.2	0.0	10.0
K. Sanyo NBR	*	5	-150	5	0	* AG	50	1.2	0.0	10.0
L. Sanyo NBD	*	4	0	4	150	* AG	360	1.2	0.0	10.0
M. Sanyo SBL	*	0	150	0	0	* AG	60	1.2	0.0	10.0
N. Sanyo SBT	*	-4	150	-4	0	* AG	70	1.2	0.0	10.0

```
  O. Sanyo SBR    *    -6   150    -6     0 *  AG    430   1.2    0.0
10.0
  P. Sanyo SBD    *    -4     0    -4  -150 *  AG    470   1.2    0.0
10.0
```

JOB: Otay Mesa and Sanyo 2020 am
RUN: Hour 1 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

III. RECEPTOR LOCATIONS

RECEPTOR	*	COORDINATES (M) X	Y	Z
1. 1	*	-14	-15	1.8
2. 2	*	-34	-15	1.8
3. 3	*	-54	-15	1.8
4. 4	*	-14	-35	1.8
5. 5	*	-14	-55	1.8
6. 6	*	15	-15	1.8
7. 7	*	35	-15	1.8
8. 8	*	55	-15	1.8
9. 9	*	15	-35	1.8
10. 10	*	15	-55	1.8
11. 11	*	-15	15	1.8
12. 12	*	-35	15	1.8
13. 13	*	-55	15	1.8
14. 14	*	-15	35	1.8
15. 15	*	-15	55	1.8
16. 16	*	14	17	1.8
17. 17	*	34	17	1.8
18. 18	*	54	17	1.8
19. 19	*	14	37	1.8
20. 20	*	14	57	1.8

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL
JUNE 1989 VERSION
PAGE 3

JOB: Otay Mesa and Sanyo 2020 am
RUN: Hour 1 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

IV. MODEL RESULTS (WORST CASE WIND ANGLE)

RECEPTOR	BRG (DEG)	PRED CONC (PPM)	CONC/LINK (PPM) A	B	C	D	E	F	G	H
1. 1	286.	0.3	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.1
2. 2	288.	0.3	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.1
3. 3	71.	0.3	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0
4. 4	10.	0.2	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0
5. 5	9.	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6. 6	283.	0.4	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.1
7. 7	282.	0.3	0.0	0.1	0.0	0.1	0.0	0.0	0.0	0.1
8. 8	281.	0.3	0.0	0.1	0.0	0.1	0.0	0.0	0.0	0.1
9. 9	292.	0.2	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.1
10. 10	300.	0.2	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0
11. 11	252.	0.3	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.2
12. 12	252.	0.3	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.2
13. 13	109.	0.3	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.1
14. 14	168.	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
15. 15	169.	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16. 16	253.	0.3	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.1
17. 17	256.	0.3	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.1
18. 18	258.	0.3	0.0	0.1	0.0	0.0	0.0	0.1	0.0	0.1
19. 19	246.	0.2	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.1
20. 20	239.	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1

JOB: Otay Mesa and Sanyo 2020 am
RUN: Hour 1 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

IV. MODEL RESULTS (WORST CASE WIND ANGLE) (CONT.)

RECEPTOR	*	CONC/LINK (PPM) I	J	K	L	M	N	O	P
1. 1	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2. 2	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3. 3	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4. 4	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5. 5	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6. 6	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7. 7	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8. 8	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9. 9	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10. 10	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11. 11	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12. 12	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13. 13	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14. 14	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15. 15	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16. 16	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17. 17	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18. 18	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19. 19	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20. 20	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL
JUNE 1989 VERSION
PAGE 1

JOB: Otay Mesa and Sanyo 2020 pm
RUN: Hour 1 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

I. SITE VARIABLES

U=	0.5 M/S	Z0=	100. CM	ALT=	0. (M)
BRG=	WORST CASE	VD=	0.0 CM/S		
CLAS=	7 (G)	VS=	0.0 CM/S		
MIXH=	1000. M	AMB=	0.0 PPM		
SIGTH=	10. DEGREES	TEMP=	19.0 DEGREE (C)		

II. LINK VARIABLES

LINK DESCRIPTION	*	LINK COORDINATES (M) X1	Y1	X2	Y2	* TYPE	VPH	EF (G/MI)	H (M)	W (M)
A. OM WBLA	*	-150	0	0	0	* AG	180	1.2	0.0	10.0
B. OM WBTA	*	-150	-6	0	-6	* AG	1100	1.2	0.0	10.0
C. OM WBRA	*	-150	-7	0	-7	* AG	540	1.2	0.0	10.0
D. OM WBD	*	0	-6	150	-6	* AG	1220	1.2	0.0	10.0
E. OM EBLA	*	150	6	0	6	* AG	70	1.2	0.0	10.0
F. OM EBTA	*	150	7	0	7	* AG	1550	1.2	0.0	10.0
G. OM EBRA	*	150	6	0	6	* AG	80	1.2	0.0	10.0
H. OM EBD	*	0	6	-150	6	* AG	2280	1.2	0.0	10.0
I. Sanyo NBL	*	0	-150	0	0	* AG	330	1.2	0.0	10.0
J. Sanyo NBT	*	4	-150	4	0	* AG	80	1.2	0.0	10.0
K. Sanyo NBR	*	5	-150	5	0	* AG	70	1.2	0.0	10.0
L. Sanyo NBD	*	4	0	4	150	* AG	700	1.2	0.0	10.0
M. Sanyo SBL	*	0	150	0	0	* AG	50	1.2	0.0	10.0
N. Sanyo SBT	*	-4	150	-4	0	* AG	110	1.2	0.0	10.0

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  O. Sanyo SBR    *    -6   150    -6     0 *  AG    400   1.2    0.0
10.0
  P. Sanyo SBD    *    -4     0    -4  -150 *  AG    360   1.2    0.0
10.0
```

JOB: Otay Mesa and Sanyo 2020 pm
RUN: Hour 1 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

III. RECEPTOR LOCATIONS

RECEPTOR	*	COORDINATES (M) X	Y	Z
1. 1	*	-14	-15	1.8
2. 2	*	-34	-15	1.8
3. 3	*	-54	-15	1.8
4. 4	*	-14	-35	1.8
5. 5	*	-14	-55	1.8
6. 6	*	15	-15	1.8
7. 7	*	35	-15	1.8
8. 8	*	55	-15	1.8
9. 9	*	15	-35	1.8
10. 10	*	15	-55	1.8
11. 11	*	-15	15	1.8
12. 12	*	-35	15	1.8
13. 13	*	-55	15	1.8
14. 14	*	-15	35	1.8
15. 15	*	-15	55	1.8
16. 16	*	14	17	1.8
17. 17	*	34	17	1.8
18. 18	*	54	17	1.8
19. 19	*	14	37	1.8
20. 20	*	14	57	1.8

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL
JUNE 1989 VERSION
PAGE 3

JOB: Otay Mesa and Sanyo 2020 pm
RUN: Hour 1 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

IV. MODEL RESULTS (WORST CASE WIND ANGLE)

RECEPTOR	BRG (DEG)	PRED CONC (PPM)	CONC/LINK (PPM) A	B	C	D	E	F	G	H
1. 1	13.	0.4	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.1
2. 2	71.	0.3	0.0	0.1	0.1	0.0	0.0	0.1	0.0	0.0
3. 3	72.	0.4	0.0	0.1	0.1	0.0	0.0	0.1	0.0	0.0
4. 4	11.	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
5. 5	9.	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6. 6	283.	0.4	0.0	0.1	0.1	0.0	0.0	0.0	0.0	0.1
7. 7	282.	0.4	0.0	0.1	0.0	0.1	0.0	0.0	0.0	0.1
8. 8	281.	0.3	0.0	0.1	0.0	0.1	0.0	0.0	0.0	0.1
9. 9	293.	0.2	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.1
10. 10	348.	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11. 11	103.	0.4	0.0	0.0	0.0	0.1	0.0	0.2	0.0	0.0
12. 12	252.	0.3	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.2
13. 13	108.	0.4	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.2
14. 14	168.	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
15. 15	169.	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16. 16	252.	0.4	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.2
17. 17	256.	0.4	0.0	0.1	0.0	0.0	0.0	0.1	0.0	0.1
18. 18	258.	0.4	0.0	0.1	0.0	0.0	0.0	0.1	0.0	0.1
19. 19	245.	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
20. 20	199.	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

JOB: Otay Mesa and Sanyo 2020 pm
RUN: Hour 1 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

IV. MODEL RESULTS (WORST CASE WIND ANGLE) (CONT.)

RECEPTOR	*	CONC/LINK (PPM) I	J	K	L	M	N	O	P
1. 1	*	0.0	0.0	0.0	0.1	0.0	0.0	0.1	0.0
2. 2	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3. 3	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4. 4	*	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0
5. 5	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6. 6	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7. 7	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8. 8	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9. 9	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10. 10	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11. 11	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12. 12	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13. 13	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14. 14	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15. 15	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16. 16	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17. 17	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18. 18	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19. 19	*	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0
20. 20	*	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL
JUNE 1989 VERSION
PAGE 1

JOB: Otay Mesa and Sanyo E+P am
RUN: Hour 1 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

I. SITE VARIABLES

U=	0.5 M/S	Z0=	100. CM	ALT=	0. (M)
BRG=	WORST CASE	VD=	0.0 CM/S		
CLAS=	7 (G)	VS=	0.0 CM/S		
MIXH=	1000. M	AMB=	0.0 PPM		
SIGTH=	10. DEGREES	TEMP=	19.0 DEGREE (C)		

II. LINK VARIABLES

LINK DESCRIPTION	*	LINK COORDINATES (M) X1	Y1	X2	Y2	* TYPE	VPH	EF (G/MI)	H (M)	W (M)
A. OM WBLA	*	-150	0	0	0	* AG	294	1.2	0.0	10.0
B. OM WBTA	*	-150	-6	0	-6	* AG	982	1.2	0.0	10.0
C. OM WBRA	*	-150	-7	0	-7	* AG	362	1.2	0.0	10.0
D. OM WBD	*	0	-6	150	-6	* AG	1080	1.2	0.0	10.0
E. OM EBLA	*	150	6	0	6	* AG	41	1.2	0.0	10.0
F. OM EBTA	*	150	7	0	7	* AG	533	1.2	0.0	10.0
G. OM EBRA	*	150	6	0	6	* AG	43	1.2	0.0	10.0
H. OM EBD	*	0	6	-150	6	* AG	1086	1.2	0.0	10.0
I. Sanyo NBL	*	0	-150	0	0	* AG	97	1.2	0.0	10.0
J. Sanyo NBT	*	4	-150	4	0	* AG	44	1.2	0.0	10.0
K. Sanyo NBR	*	5	-150	5	0	* AG	30	1.2	0.0	10.0
L. Sanyo NBD	*	4	0	4	150	* AG	381	1.2	0.0	10.0
M. Sanyo SBL	*	0	150	0	0	* AG	68	1.2	0.0	10.0
N. Sanyo SBT	*	-4	150	-4	0	* AG	68	1.2	0.0	10.0

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  O. Sanyo SBR    *    -6   150    -6     0 *  AG    456   1.2    0.0
10.0
  P. Sanyo SBD    *    -4     0    -4  -150 *  AG    471   1.2    0.0
10.0
```

JOB: Otay Mesa and Sanyo E+P am
RUN: Hour 1 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

III. RECEPTOR LOCATIONS

RECEPTOR	*	COORDINATES (M) X	Y	Z
1. 1	*	-14	-15	1.8
2. 2	*	-34	-15	1.8
3. 3	*	-54	-15	1.8
4. 4	*	-14	-35	1.8
5. 5	*	-14	-55	1.8
6. 6	*	15	-15	1.8
7. 7	*	35	-15	1.8
8. 8	*	55	-15	1.8
9. 9	*	15	-35	1.8
10. 10	*	15	-55	1.8
11. 11	*	-15	15	1.8
12. 12	*	-35	15	1.8
13. 13	*	-55	15	1.8
14. 14	*	-15	35	1.8
15. 15	*	-15	55	1.8
16. 16	*	14	17	1.8
17. 17	*	34	17	1.8
18. 18	*	54	17	1.8
19. 19	*	14	37	1.8
20. 20	*	14	57	1.8

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL
JUNE 1989 VERSION
PAGE 3

JOB: Otay Mesa and Sanyo E+P am
RUN: Hour 1 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

IV. MODEL RESULTS (WORST CASE WIND ANGLE)

RECEPTOR	BRG (DEG)	PRED CONC (PPM)	CONC/LINK (PPM) A	B	C	D	E	F	G	H
1. 1	11.	0.3	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0
2. 2	287.	0.3	0.0	0.1	0.1	0.0	0.0	0.0	0.0	0.1
3. 3	71.	0.3	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0
4. 4	10.	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5. 5	9.	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6. 6	283.	0.3	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.1
7. 7	282.	0.3	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.1
8. 8	281.	0.3	0.0	0.1	0.0	0.1	0.0	0.0	0.0	0.1
9. 9	292.	0.2	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0
10. 10	347.	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11. 11	253.	0.2	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.1
12. 12	252.	0.2	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.1
13. 13	109.	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
14. 14	168.	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15. 15	169.	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16. 16	253.	0.3	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.1
17. 17	257.	0.3	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.1
18. 18	258.	0.2	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.1
19. 19	246.	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
20. 20	239.	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

JOB: Otay Mesa and Sanyo E+P am
RUN: Hour 1 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

IV. MODEL RESULTS (WORST CASE WIND ANGLE) (CONT.)

RECEPTOR	*	CONC/LINK (PPM) I	J	K	L	M	N	O	P
1. 1	*	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0
2. 2	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3. 3	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4. 4	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5. 5	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6. 6	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7. 7	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8. 8	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9. 9	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10. 10	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11. 11	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12. 12	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13. 13	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14. 14	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15. 15	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16. 16	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17. 17	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18. 18	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19. 19	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20. 20	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL
JUNE 1989 VERSION
PAGE 1

JOB: Otay Mesa and Sanyo E+P pm
RUN: Hour 1 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

I. SITE VARIABLES

U=	0.5 M/S	Z0=	100. CM	ALT=	0. (M)
BRG=	WORST CASE	VD=	0.0 CM/S		
CLAS=	7 (G)	VS=	0.0 CM/S		
MIXH=	1000. M	AMB=	0.0 PPM		
SIGTH=	10. DEGREES	TEMP=	19.0 DEGREE (C)		

II. LINK VARIABLES

LINK DESCRIPTION	*	LINK COORDINATES (M) X1	Y1	X2	Y2	* TYPE	VPH	EF (G/MI)	H (M)	W (M)
A. OM WBLA	*	-150	0	0	0	* AG	540	1.2	0.0	10.0
B. OM WBTA	*	-150	-6	0	-6	* AG	560	1.2	0.0	10.0
C. OM WBRA	*	-150	-7	0	-7	* AG	156	1.2	0.0	10.0
D. OM WBD	*	0	-6	150	-6	* AG	663	1.2	0.0	10.0
E. OM EBLA	*	150	6	0	6	* AG	47	1.2	0.0	10.0
F. OM EBTA	*	150	7	0	7	* AG	969	1.2	0.0	10.0
G. OM EBRA	*	150	6	0	6	* AG	80	1.2	0.0	10.0
H. OM EBD	*	0	6	-150	6	* AG	1671	1.2	0.0	10.0
I. Sanyo NBL	*	0	-150	0	0	* AG	304	1.2	0.0	10.0
J. Sanyo NBT	*	4	-150	4	0	* AG	80	1.2	0.0	10.0
K. Sanyo NBR	*	5	-150	5	0	* AG	44	1.2	0.0	10.0
L. Sanyo NBD	*	4	0	4	150	* AG	700	1.2	0.0	10.0
M. Sanyo SBL	*	0	150	0	0	* AG	59	1.2	0.0	10.0
N. Sanyo SBT	*	-4	150	-4	0	* AG	59	1.2	0.0	10.0

```
  O. Sanyo SBR    *    -6   150    -6     0 *  AG    398   1.2    0.0
10.0
  P. Sanyo SBD    *    -4     0    -4  -150 *  AG    262   1.2    0.0
10.0
```

JOB: Otay Mesa and Sanyo E+P pm
RUN: Hour 1 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

III. RECEPTOR LOCATIONS

RECEPTOR	*	COORDINATES (M) X	Y	Z
1. 1	*	-14	-15	1.8
2. 2	*	-34	-15	1.8
3. 3	*	-54	-15	1.8
4. 4	*	-14	-35	1.8
5. 5	*	-14	-55	1.8
6. 6	*	15	-15	1.8
7. 7	*	35	-15	1.8
8. 8	*	55	-15	1.8
9. 9	*	15	-35	1.8
10. 10	*	15	-55	1.8
11. 11	*	-15	15	1.8
12. 12	*	-35	15	1.8
13. 13	*	-55	15	1.8
14. 14	*	-15	35	1.8
15. 15	*	-15	55	1.8
16. 16	*	14	17	1.8
17. 17	*	34	17	1.8
18. 18	*	54	17	1.8
19. 19	*	14	37	1.8
20. 20	*	14	57	1.8

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL
JUNE 1989 VERSION
PAGE 3

JOB: Otay Mesa and Sanyo E+P pm
RUN: Hour 1 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

IV. MODEL RESULTS (WORST CASE WIND ANGLE)

RECEPTOR	BRG (DEG)	PRED CONC (PPM)	CONC/LINK (PPM) A	B	C	D	E	F	G	H
1. 1	12.	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
2. 2	50.	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
3. 3	66.	0.3	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.1
4. 4	10.	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5. 5	9.	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6. 6	284.	0.3	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.1
7. 7	283.	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
8. 8	281.	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
9. 9	293.	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
10. 10	348.	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11. 11	254.	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2
12. 12	252.	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2
13. 13	109.	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2
14. 14	167.	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
15. 15	169.	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16. 16	255.	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2
17. 17	257.	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
18. 18	259.	0.3	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.1
19. 19	247.	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
20. 20	202.	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL
JUNE 1989 VERSION
PAGE 4

JOB: Otay Mesa and Sanyo E+P pm
RUN: Hour 1 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

IV. MODEL RESULTS (WORST CASE WIND ANGLE) (CONT.)

RECEPTOR	*	CONC/LINK (PPM) I	J	K	L	M	N	O	P
1. 1	*	0.0	0.0	0.0	0.1	0.0	0.0	0.1	0.0
2. 2	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3. 3	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4. 4	*	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0
5. 5	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6. 6	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7. 7	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8. 8	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9. 9	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10. 10	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11. 11	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12. 12	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13. 13	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14. 14	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15. 15	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16. 16	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17. 17	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18. 18	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19. 19	*	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0
20. 20	*	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL
JUNE 1989 VERSION
PAGE 1

JOB: Otay Mesa and Vann Centre 2020 am
RUN: Hour 1 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

I. SITE VARIABLES

U=	0.5 M/S	Z0=	100. CM	ALT=	0. (M)
BRG=	WORST CASE	VD=	0.0 CM/S		
CLAS=	7 (G)	VS=	0.0 CM/S		
MIXH=	1000. M	AMB=	0.0 PPM		
SIGTH=	10. DEGREES	TEMP=	19.0 DEGREE (C)		

II. LINK VARIABLES

LINK DESCRIPTION	*	LINK COORDINATES (M) X1	Y1	X2	Y2	* TYPE	VPH	EF (G/MI)	H (M)	W (M)
A. OM WBLA	*	-150	0	0	0	* AG	590	1.2	0.0	10.0
B. OM WBTA	*	-150	-6	0	-6	* AG	960	1.2	0.0	10.0
C. OM WBRA	*	-150	-7	0	-7	* AG	0	1.2	0.0	10.0
D. OM WBD	*	0	-6	150	-6	* AG	1110	1.2	0.0	10.0
E. OM EBLA	*	150	6	0	6	* AG	0	1.2	0.0	10.0
F. OM EBTA	*	150	7	0	7	* AG	650	1.2	0.0	10.0
G. OM EBRA	*	150	6	0	6	* AG	130	1.2	0.0	10.0
H. OM EBD	*	0	6	-150	6	* AG	1070	1.2	0.0	10.0
I. Vann NBL	*	0	-150	0	0	* AG	0	1.2	0.0	10.0
J. Vann NBT	*	4	-150	4	0	* AG	0	1.2	0.0	10.0
K. Vann NBR	*	5	-150	5	0	* AG	0	1.2	0.0	10.0
L. Vann NBD	*	4	0	4	150	* AG	720	1.2	0.0	10.0
M. Vann SBL	*	0	150	0	0	* AG	150	1.2	0.0	10.0
N. Vann SBT	*	-4	150	-4	0	* AG	0	1.2	0.0	10.0

```
  O. Vann SBR      *    -6   150    -6      0 *  AG    420   1.2    0.0
10.0
  P. Vann SBD      *    -4     0    -4   -150 *  AG      0   1.2    0.0
10.0
```

JOB: Otay Mesa and Vann Centre 2020 am
RUN: Hour 1 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

III. RECEPTOR LOCATIONS

RECEPTOR	*	COORDINATES (M) X	Y	Z
1. 1	*	-14	-15	1.8
2. 2	*	-34	-15	1.8
3. 3	*	-54	-15	1.8
4. 4	*	-14	-35	1.8
5. 5	*	-14	-55	1.8
6. 6	*	15	-15	1.8
7. 7	*	35	-15	1.8
8. 8	*	55	-15	1.8
9. 9	*	15	-35	1.8
10. 10	*	15	-55	1.8
11. 11	*	-15	15	1.8
12. 12	*	-35	15	1.8
13. 13	*	-55	15	1.8
14. 14	*	-15	35	1.8
15. 15	*	-15	55	1.8
16. 16	*	14	17	1.8
17. 17	*	34	17	1.8
18. 18	*	54	17	1.8
19. 19	*	14	37	1.8
20. 20	*	14	57	1.8

JOB: Otay Mesa and Vann Centre 2020 am
RUN: Hour 1 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

IV. MODEL RESULTS (WORST CASE WIND ANGLE)

RECEPTOR	BRG (DEG)	PRED CONC (PPM)	CONC/LINK (PPM) A	B	C	D	E	F	G	H
1. 1	12.	0.3	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0
2. 2	49.	0.2	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.1
3. 3	65.	0.2	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0
4. 4	9.	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5. 5	7.	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6. 6	285.	0.2	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.1
7. 7	283.	0.2	0.0	0.1	0.0	0.1	0.0	0.0	0.0	0.1
8. 8	282.	0.2	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.1
9. 9	349.	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10. 10	351.	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11. 11	103.	0.3	0.0	0.0	0.0	0.1	0.0	0.1	0.0	0.0
12. 12	103.	0.2	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.1
13. 13	105.	0.2	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.1
14. 14	113.	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15. 15	151.	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16. 16	255.	0.3	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.1
17. 17	257.	0.3	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.1
18. 18	259.	0.3	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.1
19. 19	247.	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
20. 20	207.	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

JOB: Otay Mesa and Vann Centre 2020 am
RUN: Hour 1 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

IV. MODEL RESULTS (WORST CASE WIND ANGLE) (CONT.)

RECEPTOR	*	CONC/LINK (PPM) I	J	K	L	M	N	O	P
1. 1	*	0.0	0.0	0.0	0.1	0.0	0.0	0.1	0.0
2. 2	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3. 3	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4. 4	*	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0
5. 5	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6. 6	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7. 7	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8. 8	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9. 9	*	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0
10. 10	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11. 11	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12. 12	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13. 13	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14. 14	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15. 15	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16. 16	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17. 17	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18. 18	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19. 19	*	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0
20. 20	*	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL
JUNE 1989 VERSION
PAGE 1

JOB: Otay Mesa and Vann Centre 2020 pm
RUN: Hour 1 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

I. SITE VARIABLES

U=	0.5 M/S	Z0=	100. CM	ALT=	0. (M)
BRG=	WORST CASE	VD=	0.0 CM/S		
CLAS=	7 (G)	VS=	0.0 CM/S		
MIXH=	1000. M	AMB=	0.0 PPM		
SIGTH=	10. DEGREES	TEMP=	19.0 DEGREE (C)		

II. LINK VARIABLES

LINK DESCRIPTION	*	LINK COORDINATES (M) X1	Y1	X2	Y2	* TYPE	VPH	EF (G/MI)	H (M)	W (M)
A. OM WBLA	*	-150	0	0	0	* AG	600	1.2	0.0	10.0
B. OM WBTA	*	-150	-6	0	-6	* AG	620	1.2	0.0	10.0
C. OM WBRA	*	-150	-7	0	-7	* AG	0	1.2	0.0	10.0
D. OM WBD	*	0	-6	150	-6	* AG	850	1.2	0.0	10.0
E. OM EBLA	*	150	6	0	6	* AG	0	1.2	0.0	10.0
F. OM EBTA	*	150	7	0	7	* AG	1210	1.2	0.0	10.0
G. OM EBRA	*	150	6	0	6	* AG	190	1.2	0.0	10.0
H. OM EBD	*	0	6	-150	6	* AG	1680	1.2	0.0	10.0
I. Vann NBL	*	0	-150	0	0	* AG	0	1.2	0.0	10.0
J. Vann NBT	*	4	-150	4	0	* AG	0	1.2	0.0	10.0
K. Vann NBR	*	5	-150	5	0	* AG	0	1.2	0.0	10.0
L. Vann NBD	*	4	0	4	150	* AG	790	1.2	0.0	10.0
M. Vann SBL	*	0	150	0	0	* AG	230	1.2	0.0	10.0
N. Vann SBT	*	-4	150	-4	0	* AG	0	1.2	0.0	10.0

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  O. Vann SBR      *    -6   150    -6      0 *  AG    470   1.2    0.0
10.0
  P. Vann SBD      *    -4     0    -4   -150 *  AG      0   1.2    0.0
10.0
```

JOB: Otay Mesa and Vann Centre 2020 pm
RUN: Hour 1 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

III. RECEPTOR LOCATIONS

RECEPTOR	*	COORDINATES (M) X	Y	Z
1. 1	*	-14	-15	1.8
2. 2	*	-34	-15	1.8
3. 3	*	-54	-15	1.8
4. 4	*	-14	-35	1.8
5. 5	*	-14	-55	1.8
6. 6	*	15	-15	1.8
7. 7	*	35	-15	1.8
8. 8	*	55	-15	1.8
9. 9	*	15	-35	1.8
10. 10	*	15	-55	1.8
11. 11	*	-15	15	1.8
12. 12	*	-35	15	1.8
13. 13	*	-55	15	1.8
14. 14	*	-15	35	1.8
15. 15	*	-15	55	1.8
16. 16	*	14	17	1.8
17. 17	*	34	17	1.8
18. 18	*	54	17	1.8
19. 19	*	14	37	1.8
20. 20	*	14	57	1.8

JOB: Otay Mesa and Vann Centre 2020 pm
RUN: Hour 1 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

IV. MODEL RESULTS (WORST CASE WIND ANGLE)

RECEPTOR	BRG (DEG)	PRED CONC (PPM)	CONC/LINK (PPM) A	B	C	D	E	F	G	H
1. 1	12.	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
2. 2	50.	0.2	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.1
3. 3	66.	0.3	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.1
4. 4	9.	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5. 5	8.	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6. 6	346.	0.3	0.0	0.0	0.0	0.1	0.0	0.1	0.0	0.0
7. 7	285.	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
8. 8	283.	0.2	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.1
9. 9	349.	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10. 10	351.	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11. 11	102.	0.3	0.0	0.0	0.0	0.1	0.0	0.1	0.0	0.0
12. 12	102.	0.3	0.0	0.0	0.0	0.1	0.0	0.1	0.0	0.1
13. 13	102.	0.3	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.1
14. 14	112.	0.2	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0
15. 15	150.	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16. 16	253.	0.3	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.2
17. 17	257.	0.3	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.1
18. 18	259.	0.3	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.1
19. 19	247.	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
20. 20	207.	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

JOB: Otay Mesa and Vann Centre 2020 pm
RUN: Hour 1 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

IV. MODEL RESULTS (WORST CASE WIND ANGLE) (CONT.)

RECEPTOR	*	CONC/LINK (PPM) I	J	K	L	M	N	O	P
1. 1	*	0.0	0.0	0.0	0.1	0.0	0.0	0.1	0.0
2. 2	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3. 3	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4. 4	*	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0
5. 5	*	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0
6. 6	*	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0
7. 7	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8. 8	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9. 9	*	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0
10. 10	*	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0
11. 11	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12. 12	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13. 13	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14. 14	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15. 15	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16. 16	*	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0
17. 17	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18. 18	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19. 19	*	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0
20. 20	*	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL
JUNE 1989 VERSION
PAGE 1

JOB: Otay Mesa and Vann Centre E+P am
RUN: Hour 1 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

I. SITE VARIABLES

U=	0.5 M/S	Z0=	100. CM	ALT=	0. (M)
BRG=	WORST CASE	VD=	0.0 CM/S		
CLAS=	7 (G)	VS=	0.0 CM/S		
MIXH=	1000. M	AMB=	0.0 PPM		
SIGTH=	10. DEGREES	TEMP=	19.0 DEGREE (C)		

II. LINK VARIABLES

LINK DESCRIPTION	*	LINK COORDINATES (M) X1	Y1	X2	Y2	* TYPE	VPH	EF (G/MI)	H (M)	W (M)
A. OM WBLA	*	-150	0	0	0	* AG	251	1.2	0.0	10.0
B. OM WBTA	*	-150	-6	0	-6	* AG	829	1.2	0.0	10.0
C. OM WBRA	*	-150	-7	0	-7	* AG	0	1.2	0.0	10.0
D. OM WBD	*	0	-6	150	-6	* AG	948	1.2	0.0	10.0
E. OM EBLA	*	150	6	0	6	* AG	0	1.2	0.0	10.0
F. OM EBTA	*	150	7	0	7	* AG	227	1.2	0.0	10.0
G. OM EBRA	*	150	6	0	6	* AG	76	1.2	0.0	10.0
H. OM EBD	*	0	6	-150	6	* AG	617	1.2	0.0	10.0
I. Vann NBL	*	0	-150	0	0	* AG	0	1.2	0.0	10.0
J. Vann NBT	*	4	-150	4	0	* AG	0	1.2	0.0	10.0
K. Vann NBR	*	5	-150	5	0	* AG	0	1.2	0.0	10.0
L. Vann NBD	*	4	0	4	150	* AG	327	1.2	0.0	10.0
M. Vann SBL	*	0	150	0	0	* AG	119	1.2	0.0	10.0
N. Vann SBT	*	-4	150	-4	0	* AG	0	1.2	0.0	10.0

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  O. Vann SBR      *    -6   150    -6      0 *  AG    390   1.2    0.0
10.0
  P. Vann SBD      *    -4     0    -4   -150 *  AG      0   1.2    0.0
10.0
```

JOB: Otay Mesa and Vann Centre E+P am
RUN: Hour 1 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

III. RECEPTOR LOCATIONS

RECEPTOR	*	COORDINATES (M) X	Y	Z
1. 1	*	-14	-15	1.8
2. 2	*	-34	-15	1.8
3. 3	*	-54	-15	1.8
4. 4	*	-14	-35	1.8
5. 5	*	-14	-55	1.8
6. 6	*	15	-15	1.8
7. 7	*	35	-15	1.8
8. 8	*	55	-15	1.8
9. 9	*	15	-35	1.8
10. 10	*	15	-55	1.8
11. 11	*	-15	15	1.8
12. 12	*	-35	15	1.8
13. 13	*	-55	15	1.8
14. 14	*	-15	35	1.8
15. 15	*	-15	55	1.8
16. 16	*	14	17	1.8
17. 17	*	34	17	1.8
18. 18	*	54	17	1.8
19. 19	*	14	37	1.8
20. 20	*	14	57	1.8

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL
JUNE 1989 VERSION
PAGE 3

JOB: Otay Mesa and Vann Centre E+P am
RUN: Hour 1 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

IV. MODEL RESULTS (WORST CASE WIND ANGLE)

RECEPTOR	BRG (DEG)	PRED CONC (PPM)	CONC/LINK (PPM) A	B	C	D	E	F	G	H
1. 1	11.	0.2	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0
2. 2	45.	0.2	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0
3. 3	65.	0.2	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0
4. 4	9.	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5. 5	7.	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6. 6	283.	0.2	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0
7. 7	283.	0.2	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0
8. 8	282.	0.2	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0
9. 9	348.	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10. 10	351.	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11. 11	107.	0.2	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0
12. 12	108.	0.2	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0
13. 13	104.	0.2	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.1
14. 14	114.	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15. 15	154.	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16. 16	255.	0.2	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.1
17. 17	257.	0.2	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.1
18. 18	259.	0.2	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0
19. 19	247.	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20. 20	209.	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

JOB: Otay Mesa and Vann Centre E+P am
RUN: Hour 1 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

IV. MODEL RESULTS (WORST CASE WIND ANGLE) (CONT.)

RECEPTOR	*	CONC/LINK (PPM) I	J	K	L	M	N	O	P
1. 1	*	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0
2. 2	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3. 3	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4. 4	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5. 5	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6. 6	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7. 7	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8. 8	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9. 9	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10. 10	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11. 11	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12. 12	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13. 13	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14. 14	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15. 15	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16. 16	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17. 17	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18. 18	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19. 19	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20. 20	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL
JUNE 1989 VERSION
PAGE 1

JOB: Otay Mesa and Vann Centre E+P pm
RUN: Hour 1 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

I. SITE VARIABLES

U=	0.5 M/S	Z0=	100. CM	ALT=	0. (M)
BRG=	WORST CASE	VD=	0.0 CM/S		
CLAS=	7 (G)	VS=	0.0 CM/S		
MIXH=	1000. M	AMB=	0.0 PPM		
SIGTH=	10. DEGREES	TEMP=	19.0 DEGREE (C)		

II. LINK VARIABLES

LINK DESCRIPTION	*	LINK COORDINATES (M) X1	Y1	X2	Y2	* TYPE	VPH	EF (G/MI)	H (M)	W (M)
A. OM WBLA	*	-150	0	0	0	* AG	460	1.2	0.0	10.0
B. OM WBTA	*	-150	-6	0	-6	* AG	203	1.2	0.0	10.0
C. OM WBRA	*	-150	-7	0	-7	* AG	0	1.2	0.0	10.0
D. OM WBD	*	0	-6	150	-6	* AG	306	1.2	0.0	10.0
E. OM EBLA	*	150	6	0	6	* AG	0	1.2	0.0	10.0
F. OM EBTA	*	150	7	0	7	* AG	757	1.2	0.0	10.0
G. OM EBRA	*	150	6	0	6	* AG	140	1.2	0.0	10.0
H. OM EBD	*	0	6	-150	6	* AG	1096	1.2	0.0	10.0
I. Vann NBL	*	0	-150	0	0	* AG	0	1.2	0.0	10.0
J. Vann NBT	*	4	-150	4	0	* AG	0	1.2	0.0	10.0
K. Vann NBR	*	5	-150	5	0	* AG	0	1.2	0.0	10.0
L. Vann NBD	*	4	0	4	150	* AG	600	1.2	0.0	10.0
M. Vann SBL	*	0	150	0	0	* AG	103	1.2	0.0	10.0
N. Vann SBT	*	-4	150	-4	0	* AG	0	1.2	0.0	10.0

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  O. Vann SBR      *    -6   150    -6      0 *  AG    330   1.2    0.0
10.0
  P. Vann SBD      *    -4     0    -4   -150 *  AG      0   1.2    0.0
10.0
```

JOB: Otay Mesa and Vann Centre E+P pm
RUN: Hour 1 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

III. RECEPTOR LOCATIONS

RECEPTOR	*	COORDINATES (M) X	Y	Z
1. 1	*	-14	-15	1.8
2. 2	*	-34	-15	1.8
3. 3	*	-54	-15	1.8
4. 4	*	-14	-35	1.8
5. 5	*	-14	-55	1.8
6. 6	*	15	-15	1.8
7. 7	*	35	-15	1.8
8. 8	*	55	-15	1.8
9. 9	*	15	-35	1.8
10. 10	*	15	-55	1.8
11. 11	*	-15	15	1.8
12. 12	*	-35	15	1.8
13. 13	*	-55	15	1.8
14. 14	*	-15	35	1.8
15. 15	*	-15	55	1.8
16. 16	*	14	17	1.8
17. 17	*	34	17	1.8
18. 18	*	54	17	1.8
19. 19	*	14	37	1.8
20. 20	*	14	57	1.8

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL
JUNE 1989 VERSION
PAGE 3

JOB: Otay Mesa and Vann Centre E+P pm
RUN: Hour 1 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

IV. MODEL RESULTS (WORST CASE WIND ANGLE)

RECEPTOR	BRG (DEG)	PRED CONC (PPM)	CONC/LINK (PPM) A	B	C	D	E	F	G	H
1. 1	12.	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2. 2	49.	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
3. 3	64.	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
4. 4	9.	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5. 5	7.	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6. 6	347.	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7. 7	284.	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
8. 8	283.	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
9. 9	349.	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10. 10	351.	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11. 11	101.	0.2	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0
12. 12	102.	0.2	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0
13. 13	102.	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
14. 14	111.	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15. 15	150.	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16. 16	256.	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
17. 17	257.	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
18. 18	259.	0.2	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.1
19. 19	247.	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
20. 20	207.	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

JOB: Otay Mesa and Vann Centre E+P pm
RUN: Hour 1 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

IV. MODEL RESULTS (WORST CASE WIND ANGLE) (CONT.)

RECEPTOR	*	CONC/LINK (PPM) I	J	K	L	M	N	O	P
1. 1	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2. 2	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3. 3	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4. 4	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5. 5	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6. 6	*	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0
7. 7	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8. 8	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9. 9	*	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0
10. 10	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11. 11	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12. 12	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13. 13	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14. 14	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15. 15	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16. 16	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17. 17	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18. 18	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19. 19	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20. 20	*	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL
JUNE 1989 VERSION
PAGE 1

JOB: Siempre Viva and Enrico Fermi 2020 am
RUN: Hour 1 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

I. SITE VARIABLES

U=	0.5 M/S	Z0=	100. CM	ALT=	0. (M)
BRG=	WORST CASE	VD=	0.0 CM/S		
CLAS=	7 (G)	VS=	0.0 CM/S		
MIXH=	1000. M	AMB=	0.0 PPM		
SIGTH=	10. DEGREES	TEMP=	19.0 DEGREE (C)		

II. LINK VARIABLES

LINK DESCRIPTION	*	LINK COORDINATES (M) X1	Y1	X2	Y2	* TYPE	VPH	EF (G/MI)	H (M)	W (M)
A. SV WBLA	*	-150	0	0	0	* AG	410	1.2	0.0	10.0
B. SV WBTA	*	-150	-6	0	-6	* AG	330	1.2	0.0	10.0
C. SV WBRA	*	-150	-7	0	-7	* AG	30	1.2	0.0	10.0
D. SV WBD	*	0	-6	150	-6	* AG	460	1.2	0.0	10.0
E. SV EBLA	*	150	6	0	6	* AG	20	1.2	0.0	10.0
F. SV EBTA	*	150	7	0	7	* AG	380	1.2	0.0	10.0
G. SV EBRA	*	150	6	0	6	* AG	80	1.2	0.0	10.0
H. SV EBD	*	0	6	-150	6	* AG	1290	1.2	0.0	10.0
I. Fermi NBL	*	0	-150	0	0	* AG	600	1.2	0.0	10.0
J. Fermi NBT	*	4	-150	4	0	* AG	470	1.2	0.0	10.0
K. Fermi NBR	*	5	-150	5	0	* AG	110	1.2	0.0	10.0
L. Fermi NBD	*	4	0	4	150	* AG	960	1.2	0.0	10.0
M. Fermi SBL	*	0	150	0	0	* AG	20	1.2	0.0	10.0
N. Fermi SBT	*	-4	150	-4	0	* AG	30	1.2	0.0	10.0

```
  O. Fermi SBR     *     -6   150     -6      0 *  AG     310   1.2     0.0
10.0
  P. Fermi SBD     *     -4     0     -4   -150 *  AG      80   1.2     0.0
10.0
```

JOB: Siempre Viva and Enrico Fermi 2020 am
RUN: Hour 1 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

III. RECEPTOR LOCATIONS

RECEPTOR	*	COORDINATES (M) X	Y	Z
1. 1	*	-14	-15	1.8
2. 2	*	-34	-15	1.8
3. 3	*	-54	-15	1.8
4. 4	*	-14	-35	1.8
5. 5	*	-14	-55	1.8
6. 6	*	15	-15	1.8
7. 7	*	35	-15	1.8
8. 8	*	55	-15	1.8
9. 9	*	15	-35	1.8
10. 10	*	15	-55	1.8
11. 11	*	-15	15	1.8
12. 12	*	-35	15	1.8
13. 13	*	-55	15	1.8
14. 14	*	-15	35	1.8
15. 15	*	-15	55	1.8
16. 16	*	14	17	1.8
17. 17	*	34	17	1.8
18. 18	*	54	17	1.8
19. 19	*	14	37	1.8
20. 20	*	14	57	1.8

JOB: Siempre Viva and Enrico Fermi 2020 am
RUN: Hour 1 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

IV. MODEL RESULTS (WORST CASE WIND ANGLE)

RECEPTOR	BRG (DEG)	PRED CONC (PPM)	CONC/LINK (PPM) A	B	C	D	E	F	G	H
1. 1	13.	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
2. 2	24.	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
3. 3	62.	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
4. 4	11.	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5. 5	10.	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6. 6	286.	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
7. 7	283.	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
8. 8	281.	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
9. 9	293.	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
10. 10	344.	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11. 11	163.	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
12. 12	118.	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
13. 13	111.	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
14. 14	167.	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15. 15	169.	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16. 16	256.	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
17. 17	258.	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
18. 18	260.	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
19. 19	192.	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20. 20	192.	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

JOB: Siempre Viva and Enrico Fermi 2020 am
RUN: Hour 1 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

IV. MODEL RESULTS (WORST CASE WIND ANGLE) (CONT.)

RECEPTOR	*	CONC/LINK (PPM) I	J	K	L	M	N	O	P
1. 1	*	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0
2. 2	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3. 3	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4. 4	*	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0
5. 5	*	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0
6. 6	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7. 7	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8. 8	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9. 9	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10. 10	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11. 11	*	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12. 12	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13. 13	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14. 14	*	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15. 15	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16. 16	*	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0
17. 17	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18. 18	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19. 19	*	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20. 20	*	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL
JUNE 1989 VERSION
PAGE 1

JOB: Siempre Viva and Enrico Fermi 2020 pm
RUN: Hour 1 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

I. SITE VARIABLES

U=	0.5 M/S	Z0=	100. CM	ALT=	0. (M)
BRG=	WORST CASE	VD=	0.0 CM/S		
CLAS=	7 (G)	VS=	0.0 CM/S		
MIXH=	1000. M	AMB=	0.0 PPM		
SIGTH=	10. DEGREES	TEMP=	19.0 DEGREE (C)		

II. LINK VARIABLES

LINK DESCRIPTION	*	LINK COORDINATES (M) X1	Y1	X2	Y2	* TYPE	VPH	EF (G/MI)	H (M)	W (M)
A. SV WBLA	*	-150	0	0	0	* AG	370	1.2	0.0	10.0
B. SV WBTA	*	-150	-6	0	-6	* AG	100	1.2	0.0	10.0
C. SV WBRA	*	-150	-7	0	-7	* AG	30	1.2	0.0	10.0
D. SV WBD	*	0	-6	150	-6	* AG	140	1.2	0.0	10.0
E. SV EBLA	*	150	6	0	6	* AG	30	1.2	0.0	10.0
F. SV EBTA	*	150	7	0	7	* AG	390	1.2	0.0	10.0
G. SV EBRA	*	150	6	0	6	* AG	60	1.2	0.0	10.0
H. SV EBD	*	0	6	-150	6	* AG	840	1.2	0.0	10.0
I. Fermi NBL	*	0	-150	0	0	* AG	170	1.2	0.0	10.0
J. Fermi NBT	*	4	-150	4	0	* AG	120	1.2	0.0	10.0
K. Fermi NBR	*	5	-150	5	0	* AG	20	1.2	0.0	10.0
L. Fermi NBD	*	4	0	4	150	* AG	550	1.2	0.0	10.0
M. Fermi SBL	*	0	150	0	0	* AG	20	1.2	0.0	10.0
N. Fermi SBT	*	-4	150	-4	0	* AG	10	1.2	0.0	10.0

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  O. Fermi SBR    *    -6   150    -6     0 *  AG    280   1.2    0.0
10.0
  P. Fermi SBD    *    -4     0    -4  -150 *  AG     70   1.2    0.0
10.0
```

JOB: Siempre Viva and Enrico Fermi 2020 pm
RUN: Hour 1 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

III. RECEPTOR LOCATIONS

RECEPTOR	*	COORDINATES (M) X	Y	Z
1. 1	*	-14	-15	1.8
2. 2	*	-34	-15	1.8
3. 3	*	-54	-15	1.8
4. 4	*	-14	-35	1.8
5. 5	*	-14	-55	1.8
6. 6	*	15	-15	1.8
7. 7	*	35	-15	1.8
8. 8	*	55	-15	1.8
9. 9	*	15	-35	1.8
10. 10	*	15	-55	1.8
11. 11	*	-15	15	1.8
12. 12	*	-35	15	1.8
13. 13	*	-55	15	1.8
14. 14	*	-15	35	1.8
15. 15	*	-15	55	1.8
16. 16	*	14	17	1.8
17. 17	*	34	17	1.8
18. 18	*	54	17	1.8
19. 19	*	14	37	1.8
20. 20	*	14	57	1.8

JOB: Siempre Viva and Enrico Fermi 2020 pm
RUN: Hour 1 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

IV. MODEL RESULTS (WORST CASE WIND ANGLE)

RECEPTOR	BRG (DEG)	PRED CONC (PPM)	CONC/LINK (PPM) A	B	C	D	E	F	G	H
1. 1	12.	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2. 2	22.	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3. 3	63.	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4. 4	10.	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5. 5	9.	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6. 6	285.	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
7. 7	283.	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
8. 8	281.	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
9. 9	348.	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10. 10	349.	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11. 11	255.	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
12. 12	254.	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
13. 13	109.	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
14. 14	165.	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15. 15	167.	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16. 16	256.	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
17. 17	258.	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
18. 18	260.	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
19. 19	247.	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20. 20	204.	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

JOB: Siempre Viva and Enrico Fermi 2020 pm
RUN: Hour 1 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

IV. MODEL RESULTS (WORST CASE WIND ANGLE) (CONT.)

RECEPTOR	*	CONC/LINK (PPM) I	J	K	L	M	N	O	P
1. 1	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2. 2	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3. 3	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4. 4	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5. 5	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6. 6	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7. 7	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8. 8	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9. 9	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10. 10	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11. 11	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12. 12	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13. 13	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14. 14	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15. 15	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16. 16	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17. 17	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18. 18	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19. 19	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20. 20	*	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL
JUNE 1989 VERSION
PAGE 1

JOB: Siempre Viva and P de los A am
RUN: Hour 1 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

I. SITE VARIABLES

U=	0.5 M/S	Z0=	100. CM	ALT=	0. (M)
BRG=	WORST CASE	VD=	0.0 CM/S		
CLAS=	7 (G)	VS=	0.0 CM/S		
MIXH=	1000. M	AMB=	0.0 PPM		
SIGTH=	10. DEGREES	TEMP=	19.0 DEGREE (C)		

II. LINK VARIABLES

LINK DESCRIPTION	*	LINK COORDINATES (M) X1	Y1	X2	Y2	* TYPE	VPH	EF (G/MI)	H (M)	W (M)
A. SV WBLA	*	-150	0	0	0	* AG	800	1.2	0.0	10.0
B. SV WBTA	*	-150	-6	0	-6	* AG	790	1.2	0.0	10.0
C. SV WBRA	*	-150	-7	0	-7	* AG	130	1.2	0.0	10.0
D. SV WBD	*	0	-6	150	-6	* AG	950	1.2	0.0	10.0
E. SV EBLA	*	150	6	0	6	* AG	30	1.2	0.0	10.0
F. SV EBTA	*	150	7	0	7	* AG	1080	1.2	0.0	10.0
G. SV EBRA	*	150	6	0	6	* AG	240	1.2	0.0	10.0
H. SV EBD	*	0	6	-150	6	* AG	1500	1.2	0.0	10.0
I. PDelA NBL	*	0	-150	0	0	* AG	180	1.2	0.0	10.0
J. PDelA NBT	*	4	-150	4	0	* AG	200	1.2	0.0	10.0
K. PDelA NBR	*	5	-150	5	0	* AG	60	1.2	0.0	10.0
L. PDelA NBD	*	4	0	4	150	* AG	1240	1.2	0.0	10.0
M. PDelA SBL	*	0	150	0	0	* AG	100	1.2	0.0	10.0
N. PDelA SBT	*	-4	150	-4	0	* AG	60	1.2	0.0	10.0

```
  O. PDelA SBR    *    -6   150    -6     0 *  AG    240   1.2    0.0
10.0
  P. PDelA SBD    *    -4     0    -4  -150 *  AG    220   1.2    0.0
10.0
```

JOB: Siempre Viva and P de los A am
RUN: Hour 1 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

III. RECEPTOR LOCATIONS

RECEPTOR	*	COORDINATES (M) X	Y	Z
1. 1	*	-14	-15	1.8
2. 2	*	-34	-15	1.8
3. 3	*	-54	-15	1.8
4. 4	*	-14	-35	1.8
5. 5	*	-14	-55	1.8
6. 6	*	15	-15	1.8
7. 7	*	35	-15	1.8
8. 8	*	55	-15	1.8
9. 9	*	15	-35	1.8
10. 10	*	15	-55	1.8
11. 11	*	-15	15	1.8
12. 12	*	-35	15	1.8
13. 13	*	-55	15	1.8
14. 14	*	-15	35	1.8
15. 15	*	-15	55	1.8
16. 16	*	14	17	1.8
17. 17	*	34	17	1.8
18. 18	*	54	17	1.8
19. 19	*	14	37	1.8
20. 20	*	14	57	1.8

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL
JUNE 1989 VERSION
PAGE 3

JOB: Siempre Viva and P de los A am
RUN: Hour 1 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

IV. MODEL RESULTS (WORST CASE WIND ANGLE)

RECEPTOR	BRG (DEG)	PRED CONC (PPM)	CONC/LINK (PPM) A	B	C	D	E	F	G	H
1. 1	14.	0.3	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.1
2. 2	56.	0.3	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.1
3. 3	68.	0.3	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0
4. 4	11.	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5. 5	10.	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6. 6	284.	0.3	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.1
7. 7	283.	0.3	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.1
8. 8	281.	0.3	0.1	0.0	0.0	0.1	0.0	0.0	0.0	0.1
9. 9	349.	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10. 10	351.	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11. 11	102.	0.3	0.0	0.0	0.0	0.1	0.0	0.1	0.0	0.0
12. 12	102.	0.3	0.0	0.0	0.0	0.1	0.0	0.1	0.0	0.1
13. 13	106.	0.3	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.1
14. 14	112.	0.2	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0
15. 15	154.	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16. 16	253.	0.4	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.1
17. 17	256.	0.4	0.1	0.1	0.0	0.0	0.0	0.1	0.0	0.1
18. 18	258.	0.3	0.1	0.1	0.0	0.0	0.0	0.1	0.0	0.1
19. 19	247.	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
20. 20	201.	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

JOB: Siempre Viva and P de los A am
RUN: Hour 1 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

IV. MODEL RESULTS (WORST CASE WIND ANGLE) (CONT.)

RECEPTOR	CONC/LINK (PPM) I	J	K	L	M	N	O	P
1. 1	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0
2. 2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3. 3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4. 4	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0
5. 5	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0
6. 6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7. 7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8. 8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9. 9	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0
10. 10	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0
11. 11	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0
12. 12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13. 13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14. 14	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0
15. 15	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0
16. 16	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0
17. 17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18. 18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19. 19	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0
20. 20	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL
JUNE 1989 VERSION
PAGE 1

JOB: Siempre Viva and P de los A pm
RUN: Hour 1 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

I. SITE VARIABLES

U=	0.5 M/S	Z0=	100. CM	ALT=	0. (M)
BRG=	WORST CASE	VD=	0.0 CM/S		
CLAS=	7 (G)	VS=	0.0 CM/S		
MIXH=	1000. M	AMB=	0.0 PPM		
SIGTH=	10. DEGREES	TEMP=	19.0 DEGREE (C)		

II. LINK VARIABLES

LINK DESCRIPTION	*	LINK COORDINATES (M) X1	Y1	X2	Y2	* TYPE	VPH	EF (G/MI)	H (M)	W (M)
A. SV WBLA	*	-150	0	0	0	* AG	620	1.2	0.0	10.0
B. SV WBTA	*	-150	-6	0	-6	* AG	490	1.2	0.0	10.0
C. SV WBRA	*	-150	-7	0	-7	* AG	70	1.2	0.0	10.0
D. SV WBD	*	0	-6	150	-6	* AG	610	1.2	0.0	10.0
E. SV EBLA	*	150	6	0	6	* AG	40	1.2	0.0	10.0
F. SV EBTA	*	150	7	0	7	* AG	640	1.2	0.0	10.0
G. SV EBRA	*	150	6	0	6	* AG	320	1.2	0.0	10.0
H. SV EBD	*	0	6	-150	6	* AG	1320	1.2	0.0	10.0
I. PDelA NBL	*	0	-150	0	0	* AG	330	1.2	0.0	10.0
J. PDelA NBT	*	4	-150	4	0	* AG	310	1.2	0.0	10.0
K. PDelA NBR	*	5	-150	5	0	* AG	40	1.2	0.0	10.0
L. PDelA NBD	*	4	0	4	150	* AG	1250	1.2	0.0	10.0
M. PDelA SBL	*	0	150	0	0	* AG	80	1.2	0.0	10.0
N. PDelA SBT	*	-4	150	-4	0	* AG	80	1.2	0.0	10.0

```
  O. PDelA SBR    *    -6   150    -6     0 *  AG    350   1.2    0.0
10.0
  P. PDelA SBD    *    -4     0    -4  -150 *  AG    190   1.2    0.0
10.0
```

JOB: Siempre Viva and P de los A pm
RUN: Hour 1 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

III. RECEPTOR LOCATIONS

RECEPTOR	*	COORDINATES (M) X	Y	Z
1. 1	*	-14	-15	1.8
2. 2	*	-34	-15	1.8
3. 3	*	-54	-15	1.8
4. 4	*	-14	-35	1.8
5. 5	*	-14	-55	1.8
6. 6	*	15	-15	1.8
7. 7	*	35	-15	1.8
8. 8	*	55	-15	1.8
9. 9	*	15	-35	1.8
10. 10	*	15	-55	1.8
11. 11	*	-15	15	1.8
12. 12	*	-35	15	1.8
13. 13	*	-55	15	1.8
14. 14	*	-15	35	1.8
15. 15	*	-15	55	1.8
16. 16	*	14	17	1.8
17. 17	*	34	17	1.8
18. 18	*	54	17	1.8
19. 19	*	14	37	1.8
20. 20	*	14	57	1.8

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL
JUNE 1989 VERSION
PAGE 3

JOB: Siempre Viva and P de los A pm
RUN: Hour 1 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

IV. MODEL RESULTS (WORST CASE WIND ANGLE)

RECEPTOR	BRG (DEG)	PRED CONC (PPM)	CONC/LINK (PPM) A	B	C	D	E	F	G	H
1. 1	13.	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
2. 2	50.	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
3. 3	66.	0.2	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.1
4. 4	11.	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5. 5	10.	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6. 6	285.	0.3	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.1
7. 7	283.	0.3	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.1
8. 8	281.	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
9. 9	348.	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10. 10	350.	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11. 11	102.	0.3	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0
12. 12	103.	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
13. 13	106.	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
14. 14	165.	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15. 15	164.	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16. 16	255.	0.3	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.1
17. 17	257.	0.3	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.1
18. 18	259.	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
19. 19	247.	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
20. 20	201.	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

JOB: Siempre Viva and P de los A pm
RUN: Hour 1 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

IV. MODEL RESULTS (WORST CASE WIND ANGLE) (CONT.)

RECEPTOR	CONC/LINK (PPM) I	J	K	L	M	N	O	P
1. 1	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0
2. 2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3. 3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4. 4	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0
5. 5	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0
6. 6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7. 7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8. 8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9. 9	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0
10. 10	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0
11. 11	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0
12. 12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13. 13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14. 14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15. 15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16. 16	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0
17. 17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18. 18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19. 19	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0
20. 20	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0

East Otay Mesa Specific Plan Amendment Phase 1 Construction

San Diego Air Basin, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
City Park	8.00	Acre	8.00	348,480.00	0
Condo/Townhouse	875.00	Dwelling Unit	54.69	875,000.00	2503

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.6	**Precipitation Freq (Days)**	40
Climate Zone	13			**Operational Year**	2018
Utility Company	San Diego Gas & Electric				
CO2 Intensity (lb/MWhr)	720.49	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Construction Off-road Equipment Mitigation - Tier 3 equipment

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	250.00	100.00
tblArchitecturalCoating	EF_Nonresidential_Interior	250.00	50.00
tblArchitecturalCoating	EF_Residential_Exterior	250.00	100.00
tblArchitecturalCoating	EF_Residential_Interior	250.00	50.00
tblAreaCoating	Area_Nonresidential_Interior	522720	0
tblAreaCoating	Area_Residential_Exterior	590625	0
tblAreaCoating	Area_Residential_Interior	1771875	0
tblAreaMitigation	UseLowVOCPaintNonresidentialExterior	250	0

tblAreaMitigation	UseLowVOCPaintNonresidentialInteriorValue	250	0
tblAreaMitigation	UseLowVOCPaintResidentialExteriorValue	250	0
tblAreaMitigation	UseLowVOCPaintResidentialInteriorValue	250	0
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	6.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	7.00
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstructionPhase	NumDays	75.00	131.00
tblConstructionPhase	NumDays	1,110.00	261.00
tblConstructionPhase	NumDays	75.00	261.00
tblConstructionPhase	PhaseEndDate	7/2/2019	12/31/2018
tblConstructionPhase	PhaseEndDate	12/31/2019	12/31/2018
tblConstructionPhase	PhaseStartDate	1/1/2019	4/1/2018
tblConstructionPhase	PhaseStartDate	1/1/2019	1/1/2018

tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	6.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	6.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblProjectCharacteristics	OperationalYear	2014	2018

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					
2018	8.1757	11.1460	13.8592	0.0275	1.0861	0.6000	1.6861	0.2912	0.5625	0.8537	0.0000	2,219.6002	2,219.6002	0.2952	0.0000	2,225.7990
Total	**8.1757**	**11.1460**	**13.8592**	**0.0275**	**1.0861**	**0.6000**	**1.6861**	**0.2912**	**0.5625**	**0.8537**	**0.0000**	**2,219.6002**	**2,219.6002**	**0.2952**	**0.0000**	**2,225.7990**

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					
2018	7.4287	7.6384	14.1665	0.0275	1.0861	0.3777	1.4639	0.2912	0.3754	0.6666	0.0000	2,219.5991	2,219.5991	0.2952	0.0000	2,225.7978

Total	**7.4287**	**7.6384**	**14.1665**	**0.0275**	**1.0861**	**0.3777**	**1.4639**	**0.2912**	**0.3754**	**0.6666**	**0.0000**	**2,219.5991**	**2,219.5991**	**0.2952**	**0.0000**	**2,225.7978**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**9.14**	**31.47**	**-2.22**	**0.00**	**0.00**	**37.04**	**13.18**	**0.00**	**33.27**	**21.92**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	59.9839	0.8208	74.1775	0.0268		9.5380	9.5380		9.5377	9.5377	903.8380	389.6693	1,293.5073	0.8446	0.0711	1,333.2832
Energy	0.0651	0.5560	0.2366	3.5500e-003		0.0450	0.0450		0.0450	0.0450	0.0000	1,883.3478	1,883.3478	0.0622	0.0221	1,891.5140
Mobile	3.5025	8.2836	36.9929	0.0902	6.2081	0.1102	6.3184	1.6604	0.1016	1.7620	0.0000	6,694.6457	6,694.6457	0.2696	0.0000	6,700.3072
Waste						0.0000	0.0000		0.0000	0.0000	81.8439	0.0000	81.8439	4.8368	0.0000	183.4175
Water						0.0000	0.0000		0.0000	0.0000	18.0866	407.7028	425.7893	1.8741	0.0473	479.7951
Total	**63.5515**	**9.6604**	**111.4070**	**0.1205**	**6.2081**	**9.6931**	**15.9013**	**1.6604**	**9.6842**	**11.3447**	**1,003.7685**	**9,375.3655**	**10,379.1340**	**7.8874**	**0.1405**	**10,588.3170**

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	59.9839	0.8208	74.1775	0.0268		9.5380	9.5380		9.5377	9.5377	903.8380	389.6693	1,293.5073	0.8446	0.0711	1,333.2832
Energy	0.0651	0.5560	0.2366	3.5500e-003		0.0450	0.0450		0.0450	0.0450	0.0000	1,883.3478	1,883.3478	0.0622	0.0221	1,891.5140
Mobile	3.5025	8.2836	36.9929	0.0902	6.2081	0.1102	6.3184	1.6604	0.1016	1.7620	0.0000	6,694.6457	6,694.6457	0.2696	0.0000	6,700.3072
Waste						0.0000	0.0000		0.0000	0.0000	81.8439	0.0000	81.8439	4.8368	0.0000	183.4175
Water						0.0000	0.0000		0.0000	0.0000	18.0866	407.7028	425.7893	1.8737	0.0472	479.7662
Total	**63.5515**	**9.6604**	**111.4070**	**0.1205**	**6.2081**	**9.6931**	**15.9013**	**1.6604**	**9.6842**	**11.3447**	**1,003.7685**	**9,375.3655**	**10,379.1340**	**7.8870**	**0.1404**	**10,588.2881**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.05**	**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	Building Construction	Building Construction	1/1/2018	12/31/2018	5	261	
2	Paving	Paving	1/1/2018	12/31/2018	5	261	
3	Architectural Coating	Architectural Coating	4/1/2018	12/31/2018	5	131	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

Residential Indoor: 1,771,875; Residential Outdoor: 590,625; Non-Residential Indoor: 522,720; Non-Residential Outdoor: 174,240

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Building Construction	Cranes	2	7.00	226	0.29
Building Construction	Forklifts	6	8.00	89	0.20

Building Construction	Generator Sets	2	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	6	7.00	97	0.37
Building Construction	Welders	2	8.00	46	0.45
Paving	Cement and Mortar Mixers	2	8.00	9	0.56
Paving	Pavers	2	8.00	125	0.42
Paving	Paving Equipment	2	8.00	130	0.36
Paving	Rollers	2	8.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Architectural Coating	Air Compressors	2	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
Building Construction	18	776.00	151.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	9	23.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	2	155.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

Clean Paved Roads

3.2 Building Construction - 2018

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	0.6965	6.0711	4.5760	7.0000e-003		0.3900	0.3900		0.3667	0.3667	0.0000	617.9689	617.9689	0.1512	0.0000	621.1447
Total	**0.6965**	**6.0711**	**4.5760**	**7.0000e-003**		**0.3900**	**0.3900**		**0.3667**	**0.3667**	**0.0000**	**617.9689**	**617.9689**	**0.1512**	**0.0000**	**621.1447**

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	0.1927	1.5539	2.4361	4.6700e-003	0.1282	0.0229	0.1510	0.0367	0.0210	0.0577	0.0000	410.7734	410.7734	3.0900e-003	0.0000	410.8383
Worker	0.2860	0.3805	3.5661	9.9900e-003	0.8121	5.9300e-003	0.8180	0.2158	5.4900e-003	0.2213	0.0000	700.2256	700.2256	0.0344	0.0000	700.9481
Total	**0.4787**	**1.9344**	**6.0022**	**0.0147**	**0.9403**	**0.0288**	**0.9691**	**0.2525**	**0.0265**	**0.2790**	**0.0000**	**1,110.9990**	**1,110.9990**	**0.0375**	**0.0000**	**1,111.7864**

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	0.1752	3.6995	4.6499	7.0000e-003		0.2353	0.2353		0.2353	0.2353	0.0000	617.9681	617.9681	0.1512	0.0000	621.1439
Total	**0.1752**	**3.6995**	**4.6499**	**7.0000e-003**		**0.2353**	**0.2353**		**0.2353**	**0.2353**	**0.0000**	**617.9681**	**617.9681**	**0.1512**	**0.0000**	**621.1439**

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	0.1927	1.5539	2.4361	4.6700e-003	0.1282	0.0229	0.1510	0.0367	0.0210	0.0577	0.0000	410.7734	410.7734	3.0900e-003	0.0000	410.8383
Worker	0.2860	0.3805	3.5661	9.9900e-003	0.8121	5.9300e-003	0.8180	0.2158	5.4900e-003	0.2213	0.0000	700.2256	700.2256	0.0344	0.0000	700.9481
Total	**0.4787**	**1.9344**	**6.0022**	**0.0147**	**0.9403**	**0.0288**	**0.9691**	**0.2525**	**0.0265**	**0.2790**	**0.0000**	**1,110.9990**	**1,110.9990**	**0.0375**	**0.0000**	**1,111.7864**

3.3 Paving - 2018

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	0.2604	2.6790	2.2770	3.5000e-003		0.1506	0.1506		0.1388	0.1388	0.0000	314.8019	314.8019	0.0955	0.0000	316.8078
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.2604**	**2.6790**	**2.2770**	**3.5000e-003**		**0.1506**	**0.1506**		**0.1388**	**0.1388**	**0.0000**	**314.8019**	**314.8019**	**0.0955**	**0.0000**	**316.8078**

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	8.4800e-003	0.0113	0.1057	3.0000e-004	0.0241	1.8000e-004	0.0243	6.4000e-003	1.6000e-004	6.5600e-003	0.0000	20.7541	20.7541	1.0200e-003	0.0000	20.7755
Total	**8.4800e-003**	**0.0113**	**0.1057**	**3.0000e-004**	**0.0241**	**1.8000e-004**	**0.0243**	**6.4000e-003**	**1.6000e-004**	**6.5600e-003**	**0.0000**	**20.7541**	**20.7541**	**1.0200e-003**	**0.0000**	**20.7755**

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	0.0816	1.6703	2.5147	3.5000e-003		0.0939	0.0939		0.0939	0.0939	0.0000	314.8015	314.8015	0.0955	0.0000	316.8074
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0816**	**1.6703**	**2.5147**	**3.5000e-003**		**0.0939**	**0.0939**		**0.0939**	**0.0939**	**0.0000**	**314.8015**	**314.8015**	**0.0955**	**0.0000**	**316.8074**

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	8.4800e-003	0.0113	0.1057	3.0000e-004	0.0241	1.8000e-004	0.0243	6.4000e-003	1.6000e-004	6.5600e-003	0.0000	20.7541	20.7541	1.0200e-003	0.0000	20.7755

Total	**8.4800e-003**	**0.0113**	**0.1057**	**3.0000e-004**	**0.0241**	**1.8000e-004**	**0.0243**	**6.4000e-003**	**1.6000e-004**	**6.5600e-003**	**0.0000**	**20.7541**	**20.7541**	**1.0200e-003**	**0.0000**	**20.7755**

3.4 Architectural Coating - 2018

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	6.6302					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0585	0.3931	0.3634	5.8000e-004		0.0295	0.0295		0.0295	0.0295	0.0000	50.0439	50.0439	4.7600e-003	0.0000	50.1437
Total	**6.6888**	**0.3931**	**0.3634**	**5.8000e-004**		**0.0295**	**0.0295**		**0.0295**	**0.0295**	**0.0000**	**50.0439**	**50.0439**	**4.7600e-003**	**0.0000**	**50.1437**

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	0.0429	0.0571	0.5349	1.5000e-003	0.1218	8.9000e-004	0.1227	0.0324	8.2000e-004	0.0332	0.0000	105.0325	105.0325	5.1600e-003	0.0000	105.1408
Total	**0.0429**	**0.0571**	**0.5349**	**1.5000e-003**	**0.1218**	**8.9000e-004**	**0.1227**	**0.0324**	**8.2000e-004**	**0.0332**	**0.0000**	**105.0325**	**105.0325**	**5.1600e-003**	**0.0000**	**105.1408**

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	6.6302					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0117	0.2660	0.3592	5.8000e-004		0.0186	0.0186		0.0186	0.0186	0.0000	50.0438	50.0438	4.7600e-003	0.0000	50.1437
Total	**6.6419**	**0.2660**	**0.3592**	**5.8000e-004**		**0.0186**	**0.0186**		**0.0186**	**0.0186**	**0.0000**	**50.0438**	**50.0438**	**4.7600e-003**	**0.0000**	**50.1437**

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	0.0429	0.0571	0.5349	1.5000e-003	0.1218	8.9000e-004	0.1227	0.0324	8.2000e-004	0.0332	0.0000	105.0325	105.0325	5.1600e-003	0.0000	105.1408
Total	**0.0429**	**0.0571**	**0.5349**	**1.5000e-003**	**0.1218**	**8.9000e-004**	**0.1227**	**0.0324**	**8.2000e-004**	**0.0332**	**0.0000**	**105.0325**	**105.0325**	**5.1600e-003**	**0.0000**	**105.1408**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	3.5025	8.2836	36.9929	0.0902	6.2081	0.1102	6.3184	1.6604	0.1016	1.7620	0.0000	6,694.6457	6,694.6457	0.2696	0.0000	6,700.3072
Unmitigated	3.5025	8.2836	36.9929	0.0902	6.2081	0.1102	6.3184	1.6604	0.1016	1.7620	0.0000	6,694.6457	6,694.6457	0.2696	0.0000	6,700.3072

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
City Park	12.72	12.72	12.72	27,155	27,155
Condo/Townhouse	5,766.25	6,265.00	5311.25	16,482,239	16,482,239
Total	5,778.97	6,277.72	5,323.97	16,509,394	16,509,394

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-...	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
City Park	9.50	7.30	7.30	33.00	48.00	19.00	66	28	6
Condo/Townhouse	10.80	7.30	7.50	41.60	18.80	39.60	86	11	3

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.511818	0.073499	0.191840	0.131575	0.036332	0.005186	0.012677	0.022513	0.001864	0.002072	0.006564	0.000601	0.003458

5.0 Energy Detail

4.4 Fleet Mix

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	1,239.3977	1,239.3977	0.0499	0.0103	1,243.6450
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	1,239.3977	1,239.3977	0.0499	0.0103	1,243.6450
NaturalGas Mitigated	0.0651	0.5560	0.2366	3.5500e-003		0.0450	0.0450		0.0450	0.0450	0.0000	643.9501	643.9501	0.0123	0.0118	647.8691
NaturalGas Unmitigated	0.0651	0.5560	0.2366	3.5500e-003		0.0450	0.0450		0.0450	0.0450	0.0000	643.9501	643.9501	0.0123	0.0118	647.8691

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					
Condo/Townhouse	1.20672e+007	0.0651	0.5560	0.2366	3.5500e-003		0.0450	0.0450		0.0450	0.0450	0.0000	643.9501	643.9501	0.0123	0.0118	647.8691
City Park	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		**0.0651**	**0.5560**	**0.2366**	**3.5500e-003**		**0.0450**	**0.0450**		**0.0450**	**0.0450**	**0.0000**	**643.9501**	**643.9501**	**0.0123**	**0.0118**	**647.8691**

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					
City Park	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

Condo/Townhouse	1.20672e+007	0.0651	0.5560	0.2366	3.5500e-003		0.0450	0.0450		0.0450	0.0450	0.0000	643.9501	643.9501	0.0123	0.0118	647.8691
Total		**0.0651**	**0.5560**	**0.2366**	**3.5500e-003**		**0.0450**	**0.0450**		**0.0450**	**0.0450**	**0.0000**	**643.9501**	**643.9501**	**0.0123**	**0.0118**	**647.8691**

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
City Park	0	0.0000	0.0000	0.0000	0.0000
Condo/Townhouse	3.79243e+006	1,239.3977	0.0499	0.0103	1,243.6450
Total		**1,239.3977**	**0.0499**	**0.0103**	**1,243.6450**

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
City Park	0	0.0000	0.0000	0.0000	0.0000
Condo/Townhouse	3.79243e+006	1,239.3977	0.0499	0.0103	1,243.6450
Total		**1,239.3977**	**0.0499**	**0.0103**	**1,243.6450**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	59.9839	0.8208	74.1775	0.0268		9.5380	9.5380		9.5377	9.5377	903.8380	389.6693	1,293.5073	0.8446	0.0711	1,333.2832
Unmitigated	59.9839	0.8208	74.1775	0.0268		9.5380	9.5380		9.5377	9.5377	903.8380	389.6693	1,293.5073	0.8446	0.0711	1,333.2832

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	0.1010					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	4.7783					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	54.9029	0.7449	67.6345	0.0264		9.5022	9.5022		9.5020	9.5020	903.8380	379.0565	1,282.8945	0.8341	0.0711	1,322.4494
Landscaping	0.2017	0.0759	6.5430	3.4000e-004		0.0357	0.0357		0.0357	0.0357	0.0000	10.6128	10.6128	0.0105	0.0000	10.8337
Total	**59.9839**	**0.8208**	**74.1775**	**0.0268**		**9.5380**	**9.5380**		**9.5377**	**9.5377**	**903.8380**	**389.6693**	**1,293.5073**	**0.8446**	**0.0711**	**1,333.2832**

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	0.1010					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	4.7783					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	54.9029	0.7449	67.6345	0.0264		9.5022	9.5022		9.5020	9.5020	903.8380	379.0565	1,282.8945	0.8341	0.0711	1,322.4494
Landscaping	0.2017	0.0759	6.5430	3.4000e-004		0.0357	0.0357		0.0357	0.0357	0.0000	10.6128	10.6128	0.0105	0.0000	10.8337
Total	**59.9839**	**0.8208**	**74.1775**	**0.0268**		**9.5380**	**9.5380**		**9.5377**	**9.5377**	**903.8380**	**389.6693**	**1,293.5073**	**0.8446**	**0.0711**	**1,333.2832**

7.0 Water Detail

7.1 Mitigation Measures Water

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	425.7893	1.8737	0.0472	479.7662
Unmitigated	425.7893	1.8741	0.0473	479.7951

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			

City Park	0 / 9.53185	34.6087	1.3900e-003	2.9000e-004	34.7273
Condo/Townhouse	57.0098 / 35.9409	391.1807	1.8727	0.0470	445.0678
Total		**425.7893**	**1.8741**	**0.0473**	**479.7951**

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
City Park	0 / 9.53185	34.6087	1.3900e-003	2.9000e-004	34.7273
Condo/Townhouse	57.0098 / 35.9409	391.1807	1.8723	0.0469	445.0390
Total		**425.7893**	**1.8737**	**0.0472**	**479.7662**

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	81.8439	4.8368	0.0000	183.4175
Unmitigated	81.8439	4.8368	0.0000	183.4175

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
City Park	0.69	0.1401	8.2800e-003	0.0000	0.3139
Condo/Townhouse	402.5	81.7039	4.8286	0.0000	183.1036
Total		**81.8439**	**4.8368**	**0.0000**	**183.4175**

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
City Park	0.69	0.1401	8.2800e-003	0.0000	0.3139
Condo/Townhouse	402.5	81.7039	4.8286	0.0000	183.1036
Total		**81.8439**	**4.8368**	**0.0000**	**183.4175**

9.0 Operational Offroad

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

10.0 Vegetation

East Otay Mesa Specific Plan Amendment Phase 1 Construction

San Diego Air Basin, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
City Park	8.00	Acre	8.00	348,480.00	0
Condo/Townhouse	875.00	Dwelling Unit	54.69	875,000.00	2503

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.6	**Precipitation Freq (Days)**	40
Climate Zone	13			**Operational Year**	2018
Utility Company	San Diego Gas & Electric				
CO2 Intensity (lb/MWhr)	720.49	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Construction Off-road Equipment Mitigation - Tier 3 equipment

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	250.00	100.00
tblArchitecturalCoating	EF_Nonresidential_Interior	250.00	50.00
tblArchitecturalCoating	EF_Residential_Exterior	250.00	100.00
tblArchitecturalCoating	EF_Residential_Interior	250.00	50.00
tblAreaCoating	Area_Nonresidential_Interior	522720	0
tblAreaCoating	Area_Residential_Exterior	590625	0
tblAreaCoating	Area_Residential_Interior	1771875	0
tblAreaMitigation	UseLowVOCPaintNonresidentialExteriorValue	250	0

tblAreaMitigation	UseLowVOCPaintNonresidentialInteriorValue	250	0
tblAreaMitigation	UseLowVOCPaintResidentialExteriorValue	250	0
tblAreaMitigation	UseLowVOCPaintResidentialInteriorValue	250	0
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	6.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	7.00
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstructionPhase	NumDays	75.00	131.00
tblConstructionPhase	NumDays	1,110.00	261.00
tblConstructionPhase	NumDays	75.00	261.00
tblConstructionPhase	PhaseEndDate	7/2/2019	12/31/2018
tblConstructionPhase	PhaseEndDate	12/31/2019	12/31/2018
tblConstructionPhase	PhaseStartDate	1/1/2019	4/1/2018
tblConstructionPhase	PhaseStartDate	1/1/2019	1/1/2018

tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	6.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	6.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblProjectCharacteristics	OperationalYear	2014	2018

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					
2018	79.7074	85.8671	106.2861	0.2215	8.8391	4.6739	13.5130	2.3646	4.3868	6.7514	0.0000	19,590.12 05	19,590.120 5	2.5208	0.0000	19,643.057 3
Total	**79.7074**	**85.8671**	**106.2861**	**0.2215**	**8.8391**	**4.6739**	**13.5130**	**2.3646**	**4.3868**	**6.7514**	**0.0000**	**19,590.12 05**	**19,590.120 5**	**2.5208**	**0.0000**	**19,643.057 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	lb/day										lb/day					
2018	73.8640	58.6662	108.6302	0.2215	8.8391	2.9434	11.7825	2.3646	2.9252	5.2898	0.0000	19,590.12 05	19,590.120 5	2.5208	0.0000	19,643.057 3

Total	**73.8640**	**58.6662**	**108.6302**	**0.2215**	**8.8391**	**2.9434**	**11.7825**	**2.3646**	**2.9252**	**5.2898**	**0.0000**	**19,590.12 05**	**19,590.120 5**	**2.5208**	**0.0000**	**19,643.057 3**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**7.33**	**31.68**	**-2.21**	**0.00**	**0.00**	**37.03**	**12.81**	**0.00**	**33.32**	**21.65**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	1,368.0723	19.0118	1,722.321 9	0.6482		232.1587	232.1587		232.1519	232.1519	24,300.26 44	10,321.16 15	34,621.425 9	22.5539	1.9114	35,687.592 2
Energy	0.3565	3.0468	1.2965	0.0195		0.2463	0.2463		0.2463	0.2463		3,889.498 4	3,889.4984	0.0746	0.0713	3,913.1692
Mobile	20.9313	46.6881	216.4010	0.5620	37.9075	0.6570	38.5645	10.1192	0.6054	10.7246		45,903.75 29	45,903.752 9	1.7735		45,940.996 6
Total	**1,389.3602**	**68.7466**	**1,940.019 4**	**1.2296**	**37.9075**	**233.0620**	**270.9695**	**10.1192**	**233.0036**	**243.1228**	**24,300.26 44**	**60,114.41 28**	**84,414.677 2**	**24.4020**	**1.9827**	**85,541.758 0**

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	1,368.0723	19.0118	1,722.321 9	0.6482		232.1587	232.1587		232.1519	232.1519	24,300.26 44	10,321.16 15	34,621.425 9	22.5539	1.9114	35,687.592 2
Energy	0.3565	3.0468	1.2965	0.0195		0.2463	0.2463		0.2463	0.2463		3,889.498 4	3,889.4984	0.0746	0.0713	3,913.1692

Mobile	20.9313	46.6881	216.4010	0.5620	37.9075	0.6570	38.5645	10.1192	0.6054	10.7246		45,903.7529	45,903.7529	1.7735		45,940.9966
Total	**1,389.3602**	**68.7466**	**1,940.0194**	**1.2296**	**37.9075**	**233.0620**	**270.9695**	**10.1192**	**233.0036**	**243.1228**	**24,300.2644**	**60,114.4128**	**84,414.6772**	**24.4020**	**1.9827**	**85,541.7580**

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

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Building Construction	Building Construction	1/1/2018	12/31/2018	5	261	
2	Paving	Paving	1/1/2018	12/31/2018	5	261	
3	Architectural Coating	Architectural Coating	4/1/2018	12/31/2018	5	131	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

Residential Indoor: 1,771,875; Residential Outdoor: 590,625; Non-Residential Indoor: 522,720; Non-Residential Outdoor: 174,240

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Building Construction	Cranes	2	7.00	226	0.29
Building Construction	Forklifts	6	8.00	89	0.20
Building Construction	Generator Sets	2	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	6	7.00	97	0.37
Building Construction	Welders	2	8.00	46	0.45
Paving	Cement and Mortar Mixers	2	8.00	9	0.56
Paving	Pavers	2	8.00	125	0.42

Paving	Paving Equipment	2	8.00	130	0.36
Paving	Rollers	2	8.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Architectural Coating	Air Compressors	2	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
Building Construction	18	776.00	151.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	9	23.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	2	155.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

Clean Paved Roads

3.2 Building Construction - 2018

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	5.3374	46.5217	35.0653	0.0536		2.9886	2.9886		2.8096	2.8096		5,219.8779	5,219.8779	1.2774		5,246.7034
Total	**5.3374**	**46.5217**	**35.0653**	**0.0536**		**2.9886**	**2.9886**		**2.8096**	**2.8096**		**5,219.8779**	**5,219.8779**	**1.2774**		**5,246.7034**

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	1.3591	11.5594	15.0240	0.0358	1.0022	0.1744	1.1766	0.2859	0.1604	0.4464		3,481.0049	3,481.0049	0.0258		3,481.5465
Worker	2.2476	2.6400	28.5025	0.0807	6.3747	0.0455	6.4201	1.6909	0.0421	1.7329		6,236.6832	6,236.6832	0.2906		6,242.7860
Total	**3.6067**	**14.1995**	**43.5265**	**0.1166**	**7.3768**	**0.2199**	**7.5968**	**1.9768**	**0.2025**	**2.1793**		**9,717.6880**	**9,717.6880**	**0.3164**		**9,724.3325**

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	1.3424	28.3483	35.6312	0.0536		1.8032	1.8032		1.8032	1.8032	0.0000	5,219.8779	5,219.8779	1.2774		5,246.7034
Total	**1.3424**	**28.3483**	**35.6312**	**0.0536**		**1.8032**	**1.8032**		**1.8032**	**1.8032**	**0.0000**	**5,219.8779**	**5,219.8779**	**1.2774**		**5,246.7034**

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	1.3591	11.5594	15.0240	0.0358	1.0022	0.1744	1.1766	0.2859	0.1604	0.4464		3,481.0049	3,481.0049	0.0258		3,481.5465
Worker	2.2476	2.6400	28.5025	0.0807	6.3747	0.0455	6.4201	1.6909	0.0421	1.7329		6,236.6832	6,236.6832	0.2906		6,242.7860
Total	**3.6067**	**14.1995**	**43.5265**	**0.1166**	**7.3768**	**0.2199**	**7.5968**	**1.9768**	**0.2025**	**2.1793**		**9,717.6880**	**9,717.6880**	**0.3164**		**9,724.3325**

3.3 Paving - 2018

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	1.9950	20.5289	17.4479	0.0268		1.1539	1.1539		1.0639	1.0639		2,659.0781	2,659.0781	0.8068		2,676.0218
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**1.9950**	**20.5289**	**17.4479**	**0.0268**		**1.1539**	**1.1539**		**1.0639**	**1.0639**		**2,659.0781**	**2,659.0781**	**0.8068**		**2,676.0218**

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	0.0666	0.0783	0.8448	2.3900e-003	0.1889	1.3500e-003	0.1903	0.0501	1.2500e-003	0.0514		184.8502	184.8502	8.6100e-003		185.0310

Total	**0.0666**	**0.0783**	**0.8448**	**2.3900e-003**	**0.1889**	**1.3500e-003**	**0.1903**	**0.0501**	**1.2500e-003**	**0.0514**		**184.8502**	**184.8502**	**8.6100e-003**		**185.0310**

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	0.6250	12.7989	19.2697	0.0268		0.7197	0.7197		0.7197	0.7197	0.0000	2,659.0781	2,659.0781	0.8068		2,676.0218
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**0.6250**	**12.7989**	**19.2697**	**0.0268**		**0.7197**	**0.7197**		**0.7197**	**0.7197**	**0.0000**	**2,659.0781**	**2,659.0781**	**0.8068**		**2,676.0218**

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	0.0666	0.0783	0.8448	2.3900e-003	0.1889	1.3500e-003	0.1903	0.0501	1.2500e-003	0.0514		184.8502	184.8502	8.6100e-003		185.0310
Total	**0.0666**	**0.0783**	**0.8448**	**2.3900e-003**	**0.1889**	**1.3500e-003**	**0.1903**	**0.0501**	**1.2500e-003**	**0.0514**		**184.8502**	**184.8502**	**8.6100e-003**		**185.0310**

3.4 Architectural Coating - 2018

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	67.6555					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.5973	4.0115	3.7084	5.9400e-003		0.3011	0.3011		0.3011	0.3011		562.8971	562.8971	0.0535		564.0203
Total	**68.2528**	**4.0115**	**3.7084**	**5.9400e-003**		**0.3011**	**0.3011**		**0.3011**	**0.3011**		**562.8971**	**562.8971**	**0.0535**		**564.0203**

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	0.4489	0.5273	5.6932	0.0161	1.2733	9.0800e-003	1.2824	0.3377	8.4000e-003	0.3461		1,245.7292	1,245.7292	0.0581		1,246.9482
Total	**0.4489**	**0.5273**	**5.6932**	**0.0161**	**1.2733**	**9.0800e-003**	**1.2824**	**0.3377**	**8.4000e-003**	**0.3461**		**1,245.7292**	**1,245.7292**	**0.0581**		**1,246.9482**

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	67.6555					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1189	2.7140	3.6648	5.9400e-003		0.1902	0.1902		0.1902	0.1902	0.0000	562.8971	562.8971	0.0535		564.0203
Total	**67.7744**	**2.7140**	**3.6648**	**5.9400e-003**		**0.1902**	**0.1902**		**0.1902**	**0.1902**	**0.0000**	**562.8971**	**562.8971**	**0.0535**		**564.0203**

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	0.4489	0.5273	5.6932	0.0161	1.2733	9.0800e-003	1.2824	0.3377	8.4000e-003	0.3461		1,245.7292	1,245.7292	0.0581		1,246.9482
Total	**0.4489**	**0.5273**	**5.6932**	**0.0161**	**1.2733**	**9.0800e-003**	**1.2824**	**0.3377**	**8.4000e-003**	**0.3461**		**1,245.7292**	**1,245.7292**	**0.0581**		**1,246.9482**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	20.9313	46.6881	216.4010	0.5620	37.9075	0.6570	38.5645	10.1192	0.6054	10.7246		45,903.7529	45,903.7529	1.7735		45,940.9966
Unmitigated	20.9313	46.6881	216.4010	0.5620	37.9075	0.6570	38.5645	10.1192	0.6054	10.7246		45,903.7529	45,903.7529	1.7735		45,940.9966

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
City Park	12.72	12.72	12.72	27,155	27,155
Condo/Townhouse	5,766.25	6,265.00	5311.25	16,482,239	16,482,239
Total	5,778.97	6,277.72	5,323.97	16,509,394	16,509,394

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
City Park	9.50	7.30	7.30	33.00	48.00	19.00	66	28	6
Condo/Townhouse	10.80	7.30	7.50	41.60	18.80	39.60	86	11	3

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.511818	0.073499	0.191840	0.131575	0.036332	0.005186	0.012677	0.022513	0.001864	0.002072	0.006564	0.000601	0.003458

5.0 Energy Detail

4.4 Fleet Mix

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	0.3565	3.0468	1.2965	0.0195		0.2463	0.2463		0.2463	0.2463		3,889.4984	3,889.4984	0.0746	0.0713	3,913.1692
NaturalGas Unmitigated	0.3565	3.0468	1.2965	0.0195		0.2463	0.2463		0.2463	0.2463		3,889.4984	3,889.4984	0.0746	0.0713	3,913.1692

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					
Condo/Townhouse	33060.7	0.3565	3.0468	1.2965	0.0195		0.2463	0.2463		0.2463	0.2463		3,889.4984	3,889.4984	0.0746	0.0713	3,913.1692
City Park	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		**0.3565**	**3.0468**	**1.2965**	**0.0195**		**0.2463**	**0.2463**		**0.2463**	**0.2463**		**3,889.4984**	**3,889.4984**	**0.0746**	**0.0713**	**3,913.1692**

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					
Condo/Townhouse	33.0607	0.3565	3.0468	1.2965	0.0195		0.2463	0.2463		0.2463	0.2463		3,889.4984	3,889.4984	0.0746	0.0713	3,913.1692
City Park	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		**0.3565**	**3.0468**	**1.2965**	**0.0195**		**0.2463**	**0.2463**		**0.2463**	**0.2463**		**3,889.4984**	**3,889.4984**	**0.0746**	**0.0713**	**3,913.1692**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	1,368.0723	19.0118	1,722.3219	0.6482		232.1587	232.1587		232.1519	232.1519	24,300.2644	10,321.1615	34,621.4259	22.5539	1.9114	35,687.5922
Unmitigated	1,368.0723	19.0118	1,722.3219	0.6482		232.1587	232.1587		232.1519	232.1519	24,300.2644	10,321.1615	34,621.4259	22.5539	1.9114	35,687.5922

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	0.5532					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	26.1825					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	1,339.0956	18.1679	1,649.6220	0.6443		231.7619	231.7619		231.7551	231.7551	24,300.2644	10,191.1765	34,491.4409	22.4251	1.9114	35,554.9020
Landscaping	2.2411	0.8438	72.6999	3.8100e-003		0.3968	0.3968		0.3968	0.3968		129.9850	129.9850	0.1288		132.6903
Total	**1,368.0723**	**19.0118**	**1,722.3219**	**0.6482**		**232.1587**	**232.1587**		**232.1519**	**232.1519**	**24,300.2644**	**10,321.1615**	**34,621.4259**	**22.5539**	**1.9114**	**35,687.5922**

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	0.5532					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	26.1825					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	1,339.0956	18.1679	1,649.6220	0.6443		231.7619	231.7619		231.7551	231.7551	24,300.2644	10,191.1765	34,491.4409	22.4251	1.9114	35,554.9020
Landscaping	2.2411	0.8438	72.6999	3.8100e-003		0.3968	0.3968		0.3968	0.3968		129.9850	129.9850	0.1288		132.6903
Total	**1,368.0723**	**19.0118**	**1,722.3219**	**0.6482**		**232.1587**	**232.1587**		**232.1519**	**232.1519**	**24,300.2644**	**10,321.1615**	**34,621.4259**	**22.5539**	**1.9114**	**35,687.5922**

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 Vegetation

East Otay Mesa Specific Plan Amendment Phase 2 Construction

San Diego Air Basin, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Industrial Park	95.63	1000sqft	4.00	95,625.00	0
City Park	10.00	Acre	10.00	435,600.00	0
Condo/Townhouse	697.00	Dwelling Unit	43.56	697,000.00	1993

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.6	**Precipitation Freq (Days)**	40
Climate Zone	13			**Operational Year**	2019
Utility Company	San Diego Gas & Electric				
CO2 Intensity (lb/MWhr)	720.49	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	250.00	100.00
tblArchitecturalCoating	EF_Nonresidential_Interior	250.00	50.00
tblArchitecturalCoating	EF_Residential_Exterior	250.00	100.00
tblArchitecturalCoating	EF_Residential_Interior	250.00	50.00
tblAreaCoating	Area_Nonresidential_Interior	796838	0
tblAreaCoating	Area_Residential_Exterior	470475	0
tblAreaCoating	Area_Residential_Interior	1411425	0
tblAreaMitigation	UseLowVOCPaintNonresidentialExteriorValue	250	0

tblAreaMitigation	UseLowVOCPaintNonresidentialInteriorValue	250	0
tblAreaMitigation	UseLowVOCPaintResidentialExteriorValue	250	0
tblAreaMitigation	UseLowVOCPaintResidentialInteriorValue	250	0
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	6.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	8.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstructionPhase	NumDays	75.00	132.00
tblConstructionPhase	NumDays	1,110.00	261.00
tblConstructionPhase	NumDays	75.00	261.00
tblConstructionPhase	PhaseEndDate	7/2/2020	12/31/2019
tblConstructionPhase	PhaseEndDate	12/30/2020	12/31/2019
tblConstructionPhase	PhaseStartDate	1/1/2020	1/1/2019
tblConstructionPhase	PhaseStartDate	1/1/2020	1/1/2019

tblLandUse	LandUseSquareFeet	95,630.00	95,625.00
tblLandUse	LotAcreage	2.20	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	6.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	6.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblProjectCharacteristics	OperationalYear	2014	2019

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					
2019	9.8771	10.5288	13.7826	0.0282	1.0741	0.5487	1.6228	0.2882	0.5147	0.8029	0.0000	2,235.4877	2,235.4877	0.3019	0.0000	2,241.8272
Total	**9.8771**	**10.5288**	**13.7826**	**0.0282**	**1.0741**	**0.5487**	**1.6228**	**0.2882**	**0.5147**	**0.8029**	**0.0000**	**2,235.4877**	**2,235.4877**	**0.3019**	**0.0000**	**2,241.8272**

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					

2019	9.2138	7.8729	14.2259	0.0282	1.0741	0.3995	1.4736	0.2882	0.3972	0.6854	0.0000	2,235.4864	2,235.4864	0.3019	0.0000	2,241.8259
Total	**9.2138**	**7.8729**	**14.2259**	**0.0282**	**1.0741**	**0.3995**	**1.4736**	**0.2882**	**0.3972**	**0.6854**	**0.0000**	**2,235.4864**	**2,235.4864**	**0.3019**	**0.0000**	**2,241.8259**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**6.72**	**25.23**	**-3.22**	**0.00**	**0.00**	**27.19**	**9.19**	**0.00**	**22.82**	**14.63**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	48.8441	0.6536	59.0776	0.0213		7.5977	7.5977		7.5975	7.5975	719.9715	310.4012	1,030.3727	0.6727	0.0566	1,062.0555
Energy	0.0627	0.5415	0.2713	3.4200e-003		0.0433	0.0433		0.0433	0.0433	0.0000	2,075.9892	2,075.9892	0.0705	0.0235	2,084.7525
Mobile	2.9197	6.7674	30.4397	0.0794	5.4619	0.0942	5.5560	1.4608	0.0869	1.5477	0.0000	5,709.1664	5,709.1664	0.2236	0.0000	5,713.8618
Waste						0.0000	0.0000		0.0000	0.0000	89.3282	0.0000	89.3282	5.2792	0.0000	200.1903
Water						0.0000	0.0000		0.0000	0.0000	21.4231	434.5622	455.9853	2.2179	0.0556	519.7882
Total	**51.8264**	**7.9625**	**89.7886**	**0.1041**	**5.4619**	**7.7352**	**13.1970**	**1.4608**	**7.7277**	**9.1885**	**830.7229**	**8,530.1190**	**9,360.8419**	**8.4638**	**0.1357**	**9,580.6483**

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	48.8441	0.6536	59.0776	0.0213		7.5977	7.5977		7.5975	7.5975	719.9715	310.4012	1,030.3727	0.6727	0.0566	1,062.0555
Energy	0.0627	0.5415	0.2713	3.4200e-003		0.0433	0.0433		0.0433	0.0433	0.0000	2,075.9892	2,075.9892	0.0705	0.0235	2,084.7525
Mobile	2.9197	6.7674	30.4397	0.0794	5.4619	0.0942	5.5560	1.4608	0.0869	1.5477	0.0000	5,709.1664	5,709.1664	0.2236	0.0000	5,713.8618
Waste						0.0000	0.0000		0.0000	0.0000	89.3282	0.0000	89.3282	5.2792	0.0000	200.1903
Water						0.0000	0.0000		0.0000	0.0000	21.4231	434.5622	455.9853	2.2175	0.0555	519.7541
Total	**51.8264**	**7.9625**	**89.7886**	**0.1041**	**5.4619**	**7.7352**	**13.1970**	**1.4608**	**7.7277**	**9.1885**	**830.7229**	**8,530.1190**	**9,360.8419**	**8.4634**	**0.1356**	**9,580.6142**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.06**	**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	Building Construction	Building Construction	1/1/2019	12/31/2019	5	261	
2	Paving	Paving	1/1/2019	12/31/2019	5	261	
3	Architectural Coating	Architectural Coating	1/1/2019	12/31/2019	5	132	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

Residential Indoor: 1,411,425; Residential Outdoor: 470,475; Non-Residential Indoor: 796,838; Non-Residential Outdoor: 265,613

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor

Building Construction	Cranes	2	7.00	226	0.29
Building Construction	Forklifts	6	8.00	89	0.20
Building Construction	Generator Sets	2	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	6	7.00	97	0.37
Building Construction	Welders	2	8.00	46	0.45
Paving	Cement and Mortar Mixers	2	8.00	9	0.56
Paving	Pavers	2	8.00	125	0.42
Paving	Paving Equipment	2	8.00	130	0.36
Paving	Rollers	2	8.00	80	0.38
Paving	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Architectural Coating	Air Compressors	2	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
Building Construction	18	725.00	162.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	10	25.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	2	145.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

3.2 Building Construction - 2019

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	0.6138	5.4719	4.4684	7.0000e-003		0.3354	0.3354		0.3154	0.3154	0.0000	611.0604	611.0604	0.1487	0.0000	614.1826
Total	**0.6138**	**5.4719**	**4.4684**	**7.0000e-003**		**0.3354**	**0.3354**		**0.3154**	**0.3154**	**0.0000**	**611.0604**	**611.0604**	**0.1487**	**0.0000**	**614.1826**

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	0.1931	1.5171	2.4943	5.0000e-003	0.1375	0.0228	0.1603	0.0393	0.0210	0.0603	0.0000	433.1037	433.1037	3.2300e-003	0.0000	433.1716
Worker	0.2479	0.3285	3.0646	9.3300e-003	0.7587	5.5100e-003	0.7642	0.2016	5.1000e-003	0.2067	0.0000	630.5388	630.5388	0.0302	0.0000	631.1737
Total	**0.4410**	**1.8456**	**5.5589**	**0.0143**	**0.8962**	**0.0283**	**0.9245**	**0.2410**	**0.0261**	**0.2670**	**0.0000**	**1,063.6425**	**1,063.6425**	**0.0335**	**0.0000**	**1,064.3453**

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	0.1752	3.6995	4.6499	7.0000e-003		0.2353	0.2353		0.2353	0.2353	0.0000	611.0597	611.0597	0.1487	0.0000	614.1819
Total	**0.1752**	**3.6995**	**4.6499**	**7.0000e-003**		**0.2353**	**0.2353**		**0.2353**	**0.2353**	**0.0000**	**611.0597**	**611.0597**	**0.1487**	**0.0000**	**614.1819**

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	0.1931	1.5171	2.4943	5.0000e-003	0.1375	0.0228	0.1603	0.0393	0.0210	0.0603	0.0000	433.1037	433.1037	3.2300e-003	0.0000	433.1716
Worker	0.2479	0.3285	3.0646	9.3300e-003	0.7587	5.5100e-003	0.7642	0.2016	5.1000e-003	0.2067	0.0000	630.5388	630.5388	0.0302	0.0000	631.1737
Total	**0.4410**	**1.8456**	**5.5589**	**0.0143**	**0.8962**	**0.0283**	**0.9245**	**0.2410**	**0.0261**	**0.2670**	**0.0000**	**1,063.6425**	**1,063.6425**	**0.0335**	**0.0000**	**1,064.3453**

3.3 Paving - 2019

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	0.2622	2.6552	2.5561	3.9100e-003		0.1501	0.1501		0.1384	0.1384	0.0000	346.2944	346.2944	0.1070	0.0000	348.5418
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.2622**	**2.6552**	**2.5561**	**3.9100e-003**		**0.1501**	**0.1501**		**0.1384**	**0.1384**	**0.0000**	**346.2944**	**346.2944**	**0.1070**	**0.0000**	**348.5418**

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	8.5500e-003	0.0113	0.1057	3.2000e-004	0.0262	1.9000e-004	0.0264	6.9500e-003	1.8000e-004	7.1300e-003	0.0000	21.7427	21.7427	1.0400e-003	0.0000	21.7646
Total	**8.5500e-003**	**0.0113**	**0.1057**	**3.2000e-004**	**0.0262**	**1.9000e-004**	**0.0264**	**6.9500e-003**	**1.8000e-004**	**7.1300e-003**	**0.0000**	**21.7427**	**21.7427**	**1.0400e-003**	**0.0000**	**21.7646**

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	0.0915	1.8966	2.8203	3.9100e-003		0.1098	0.1098		0.1098	0.1098	0.0000	346.2939	346.2939	0.1070	0.0000	348.5414
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0915**	**1.8966**	**2.8203**	**3.9100e-003**		**0.1098**	**0.1098**		**0.1098**	**0.1098**	**0.0000**	**346.2939**	**346.2939**	**0.1070**	**0.0000**	**348.5414**

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	8.5500e-003	0.0113	0.1057	3.2000e-004	0.0262	1.9000e-004	0.0264	6.9500e-003	1.8000e-004	7.1300e-003	0.0000	21.7427	21.7427	1.0400e-003	0.0000	21.7646
Total	**8.5500e-003**	**0.0113**	**0.1057**	**3.2000e-004**	**0.0262**	**1.9000e-004**	**0.0264**	**6.9500e-003**	**1.8000e-004**	**7.1300e-003**	**0.0000**	**21.7427**	**21.7427**	**1.0400e-003**	**0.0000**	**21.7646**

3.4 Architectural Coating - 2019

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	8.4325					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0695	0.4790	0.4806	7.8000e-004		0.0336	0.0336		0.0336	0.0336	0.0000	66.6399	66.6399	5.6300e-003	0.0000	66.7581
Total	**8.5020**	**0.4790**	**0.4806**	**7.8000e-004**		**0.0336**	**0.0336**		**0.0336**	**0.0336**	**0.0000**	**66.6399**	**66.6399**	**5.6300e-003**	**0.0000**	**66.7581**

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	0.0496	0.0657	0.6129	1.8700e-003	0.1517	1.1000e-003	0.1528	0.0403	1.0200e-003	0.0413	0.0000	126.1078	126.1078	6.0500e-003	0.0000	126.2347
Total	**0.0496**	**0.0657**	**0.6129**	**1.8700e-003**	**0.1517**	**1.1000e-003**	**0.1528**	**0.0403**	**1.0200e-003**	**0.0413**	**0.0000**	**126.1078**	**126.1078**	**6.0500e-003**	**0.0000**	**126.2347**

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	8.4325					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0155	0.3542	0.4783	7.8000e-004		0.0248	0.0248		0.0248	0.0248	0.0000	66.6398	66.6398	5.6300e-003	0.0000	66.7580
Total	**8.4480**	**0.3542**	**0.4783**	**7.8000e-004**		**0.0248**	**0.0248**		**0.0248**	**0.0248**	**0.0000**	**66.6398**	**66.6398**	**5.6300e-003**	**0.0000**	**66.7580**

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	0.0496	0.0657	0.6129	1.8700e-003	0.1517	1.1000e-003	0.1528	0.0403	1.0200e-003	0.0413	0.0000	126.1078	126.1078	6.0500e-003	0.0000	126.2347
Total	**0.0496**	**0.0657**	**0.6129**	**1.8700e-003**	**0.1517**	**1.1000e-003**	**0.1528**	**0.0403**	**1.0200e-003**	**0.0413**	**0.0000**	**126.1078**	**126.1078**	**6.0500e-003**	**0.0000**	**126.2347**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	2.9197	6.7674	30.4397	0.0794	5.4619	0.0942	5.5560	1.4608	0.0869	1.5477	0.0000	5,709.1664	5,709.1664	0.2236	0.0000	5,713.8618
Unmitigated	2.9197	6.7674	30.4397	0.0794	5.4619	0.0942	5.5560	1.4608	0.0869	1.5477	0.0000	5,709.1664	5,709.1664	0.2236	0.0000	5,713.8618

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
City Park	15.90	15.90	15.90	33,944	33,944
Condo/Townhouse	4,593.23	4,990.52	4230.79	13,129,280	13,129,280
Industrial Park	665.58	238.12	69.81	1,361,797	1,361,797
Total	5,274.71	5,244.54	4,316.50	14,525,022	14,525,022

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
City Park	9.50	7.30	7.30	33.00	48.00	19.00	66	28	6
Condo/Townhouse	10.80	7.30	7.50	41.60	18.80	39.60	86	11	3
Industrial Park	9.50	7.30	7.30	59.00	28.00	13.00	79	19	2

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.512639	0.073513	0.191470	0.131122	0.036200	0.005158	0.012615	0.022741	0.001866	0.002067	0.006563	0.000594	0.003452

5.0 Energy Detail

4.4 Fleet Mix

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	1,455.7226	1,455.7226	0.0586	0.0121	1,460.7112
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	1,455.7226	1,455.7226	0.0586	0.0121	1,460.7112
NaturalGas Mitigated	0.0627	0.5415	0.2713	3.4200e-003		0.0433	0.0433		0.0433	0.0433	0.0000	620.2665	620.2665	0.0119	0.0114	624.0414
NaturalGas Unmitigated	0.0627	0.5415	0.2713	3.4200e-003		0.0433	0.0433		0.0433	0.0433	0.0000	620.2665	620.2665	0.0119	0.0114	624.0414

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					
Condo/Townhouse	9.61236e+006	0.0518	0.4429	0.1885	2.8300e-003		0.0358	0.0358		0.0358	0.0358	0.0000	512.9522	512.9522	9.8300e-003	9.4000e-003	516.0740
Industrial Park	2.01099e+006	0.0108	0.0986	0.0828	5.9000e-004		7.4900e-003	7.4900e-003		7.4900e-003	7.4900e-003	0.0000	107.3143	107.3143	2.0600e-003	1.9700e-003	107.9674
City Park	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		**0.0627**	**0.5415**	**0.2713**	**3.4200e-003**		**0.0433**	**0.0433**		**0.0433**	**0.0433**	**0.0000**	**620.2665**	**620.2665**	**0.0119**	**0.0114**	**624.0414**

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					
Condo/Townhouse	9.61236e+006	0.0518	0.4429	0.1885	2.8300e-003		0.0358	0.0358		0.0358	0.0358	0.0000	512.9522	512.9522	9.8300e-003	9.4000e-003	516.0740
Industrial Park	2.01099e+006	0.0108	0.0986	0.0828	5.9000e-004		7.4900e-003	7.4900e-003		7.4900e-003	7.4900e-003	0.0000	107.3143	107.3143	2.0600e-003	1.9700e-003	107.9674
City Park	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		**0.0627**	**0.5415**	**0.2713**	**3.4200e-003**		**0.0433**	**0.0433**		**0.0433**	**0.0433**	**0.0000**	**620.2665**	**620.2665**	**0.0119**	**0.0114**	**624.0414**

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
City Park	0	0.0000	0.0000	0.0000	0.0000
Condo/Townhouse	3.02094e+006	987.2688	0.0397	8.2200e-003	990.6520
Industrial Park	1.43342e+006	468.4538	0.0189	3.9000e-003	470.0591
Total		**1,455.7226**	**0.0586**	**0.0121**	**1,460.7112**

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e

Land Use	kWh/yr	MT/yr			
City Park	0	0.0000	0.0000	0.0000	0.0000
Condo/Townhouse	3.02094e+006	987.2688	0.0397	8.2200e-003	990.6520
Industrial Park	1.43342e+006	468.4538	0.0189	3.9000e-003	470.0591
Total		**1,455.7226**	**0.0586**	**0.0121**	**1,460.7112**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	48.8441	0.6536	59.0776	0.0213		7.5977	7.5977		7.5975	7.5975	719.9715	310.4012	1,030.3727	0.6727	0.0566	1,062.0555
Unmitigated	48.8441	0.6536	59.0776	0.0213		7.5977	7.5977		7.5975	7.5975	719.9715	310.4012	1,030.3727	0.6727	0.0566	1,062.0555

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	0.1539					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

Consumer Products	4.7968					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	43.7341	0.5934	53.8757	0.0210		7.5692	7.5692		7.5690	7.5690	719.9715	301.9456	1,021.9171	0.6644	0.0566	1,053.4254
Landscaping	0.1593	0.0603	5.2019	2.7000e-004		0.0285	0.0285		0.0285	0.0285	0.0000	8.4557	8.4557	8.3000e-003	0.0000	8.6300
Total	**48.8441**	**0.6536**	**59.0776**	**0.0213**		**7.5977**	**7.5977**		**7.5975**	**7.5975**	**719.9715**	**310.4012**	**1,030.3727**	**0.6727**	**0.0566**	**1,062.0555**

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	0.1539					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	4.7968					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	43.7341	0.5934	53.8757	0.0210		7.5692	7.5692		7.5690	7.5690	719.9715	301.9456	1,021.9171	0.6644	0.0566	1,053.4254
Landscaping	0.1593	0.0603	5.2019	2.7000e-004		0.0285	0.0285		0.0285	0.0285	0.0000	8.4557	8.4557	8.3000e-003	0.0000	8.6300
Total	**48.8441**	**0.6536**	**59.0776**	**0.0213**		**7.5977**	**7.5977**		**7.5975**	**7.5975**	**719.9715**	**310.4012**	**1,030.3727**	**0.6727**	**0.0566**	**1,062.0555**

7.0 Water Detail

7.1 Mitigation Measures Water

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	455.9853	2.2175	0.0555	519.7541

Unmitigated	455.9853	2.2179	0.0556	519.7882

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
City Park	0 / 11.9148	43.2609	1.7400e-003	3.6000e-004	43.4091
Condo/Townhouse	45.4124 / 28.6295	311.6033	1.4917	0.0374	354.5283
Industrial Park	22.1144 / 0	101.1212	0.7244	0.0178	121.8509
Total		**455.9853**	**2.2179**	**0.0556**	**519.7882**

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
City Park	0 / 11.9148	43.2609	1.7400e-003	3.6000e-004	43.4091
Condo/Townhouse	45.4124 / 28.6295	311.6033	1.4915	0.0374	354.5053
Industrial Park	22.1144 / 0	101.1212	0.7243	0.0178	121.8397
Total		**455.9853**	**2.2175**	**0.0555**	**519.7541**

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	89.3282	5.2792	0.0000	200.1903
Unmitigated	89.3282	5.2792	0.0000	200.1903

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
City Park	0.86	0.1746	0.0103	0.0000	0.3912
Condo/Townhouse	320.62	65.0830	3.8463	0.0000	145.8551
Industrial Park	118.58	24.0707	1.4225	0.0000	53.9439
Total		**89.3282**	**5.2792**	**0.0000**	**200.1903**

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
City Park	0.86	0.1746	0.0103	0.0000	0.3912
Condo/Townhouse	320.62	65.0830	3.8463	0.0000	145.8551
Industrial Park	118.58	24.0707	1.4225	0.0000	53.9439
Total		**89.3282**	**5.2792**	**0.0000**	**200.1903**

9.0 Operational Offroad

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

10.0 Vegetation

East Otay Mesa Specific Plan Amendment Phase 2 Construction

San Diego Air Basin, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Industrial Park	95.63	1000sqft	4.00	95,625.00	0
City Park	10.00	Acre	10.00	435,600.00	0
Condo/Townhouse	697.00	Dwelling Unit	43.56	697,000.00	1993

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.6	**Precipitation Freq (Days)**	40
Climate Zone	13			**Operational Year**	2019
Utility Company	San Diego Gas & Electric				
CO2 Intensity (lb/MWhr)	720.49	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	250.00	100.00
tblArchitecturalCoating	EF_Nonresidential_Interior	250.00	50.00
tblArchitecturalCoating	EF_Residential_Exterior	250.00	100.00
tblArchitecturalCoating	EF_Residential_Interior	250.00	50.00
tblAreaCoating	Area_Nonresidential_Interior	796838	0
tblAreaCoating	Area_Residential_Exterior	470475	0
tblAreaCoating	Area_Residential_Interior	1411425	0
tblAreaMitigation	UseLowVOCPaintNonresidentialExteriorValue	250	0

tblAreaMitigation	UseLowVOCPaintNonresidentialInteriorValue	250	0
tblAreaMitigation	UseLowVOCPaintResidentialExteriorValue	250	0
tblAreaMitigation	UseLowVOCPaintResidentialInteriorValue	250	0
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	6.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	8.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstructionPhase	NumDays	75.00	132.00
tblConstructionPhase	NumDays	1,110.00	261.00
tblConstructionPhase	NumDays	75.00	261.00
tblConstructionPhase	PhaseEndDate	7/2/2020	12/31/2019
tblConstructionPhase	PhaseEndDate	12/30/2020	12/31/2019
tblConstructionPhase	PhaseStartDate	1/1/2020	1/1/2019
tblConstructionPhase	PhaseStartDate	1/1/2020	1/1/2019

tblLandUse	LandUseSquareFeet	95,630.00	95,625.00
tblLandUse	LotAcreage	2.20	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	6.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	6.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblProjectCharacteristics	OperationalYear	2014	2019

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					
2019	75.6365	80.0512	103.1438	0.2210	8.4273	4.2040	12.6313	2.2568	3.9430	6.1998	0.0000	19,252.9117	19,252.9117	2.5496	0.0000	19,306.4534
Total	**75.6365**	**80.0512**	**103.1438**	**0.2210**	**8.4273**	**4.2040**	**12.6313**	**2.2568**	**3.9430**	**6.1998**	**0.0000**	**19,252.9117**	**19,252.9117**	**2.5496**	**0.0000**	**19,306.4534**

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					

2019	70.5536	59.6995	106.5410	0.2210	8.4273	3.0607	11.4879	2.2568	3.0429	5.2997	0.0000	19,252.9117	19,252.9117	2.5496	0.0000	19,306.4534
Total	**70.5536**	**59.6995**	**106.5410**	**0.2210**	**8.4273**	**3.0607**	**11.4879**	**2.2568**	**3.0429**	**5.2997**	**0.0000**	**19,252.9117**	**19,252.9117**	**2.5496**	**0.0000**	**19,306.4534**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**6.72**	**25.42**	**-3.29**	**0.00**	**0.00**	**27.20**	**9.05**	**0.00**	**22.83**	**14.52**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	1,095.5825	15.1415	1,371.8408	0.5163		184.9316	184.9316		184.9262	184.9262	19,356.8963	8,221.5641	27,578.4604	17.9649	1.5226	28,427.7187
Energy	0.3434	2.9671	1.4865	0.0187		0.2373	0.2373		0.2373	0.2373		3,746.4482	3,746.4482	0.0718	0.0687	3,769.2485
Mobile	17.7804	38.8003	180.9727	0.5028	33.9139	0.5708	34.4847	9.0530	0.5265	9.5795		39,802.5004	39,802.5004	1.4958		39,833.9130
Total	**1,113.7064**	**56.9090**	**1,554.2999**	**1.0378**	**33.9139**	**185.7397**	**219.6536**	**9.0530**	**185.6900**	**194.7429**	**19,356.8963**	**51,770.5127**	**71,127.4090**	**19.5326**	**1.5913**	**72,030.8802**

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	1,095.5825	15.1415	1,371.8408	0.5163		184.9316	184.9316		184.9262	184.9262	19,356.8963	8,221.5641	27,578.4604	17.9649	1.5226	28,427.7187

Energy	0.3434	2.9671	1.4865	0.0187		0.2373	0.2373		0.2373	0.2373		3,746.4482	3,746.4482	0.0718	0.0687	3,769.2485
Mobile	17.7804	38.8003	180.9727	0.5028	33.9139	0.5708	34.4847	9.0530	0.5265	9.5795		39,802.5004	39,802.5004	1.4958		39,833.9130
Total	**1,113.7064**	**56.9090**	**1,554.2999**	**1.0378**	**33.9139**	**185.7397**	**219.6536**	**9.0530**	**185.6900**	**194.7429**	**19,356.8963**	**51,770.5127**	**71,127.4090**	**19.5326**	**1.5913**	**72,030.8802**

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

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Building Construction	Building Construction	1/1/2019	12/31/2019	5	261	
2	Paving	Paving	1/1/2019	12/31/2019	5	261	
3	Architectural Coating	Architectural Coating	1/1/2019	12/31/2019	5	132	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

Residential Indoor: 1,411,425; Residential Outdoor: 470,475; Non-Residential Indoor: 796,838; Non-Residential Outdoor: 265,613

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Building Construction	Cranes	2	7.00	226	0.29
Building Construction	Forklifts	6	8.00	89	0.20
Building Construction	Generator Sets	2	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	6	7.00	97	0.37
Building Construction	Welders	2	8.00	46	0.45
Paving	Cement and Mortar Mixers	2	8.00	9	0.56

Paving	Pavers	2	8.00	125	0.42
Paving	Paving Equipment	2	8.00	130	0.36
Paving	Rollers	2	8.00	80	0.38
Paving	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Architectural Coating	Air Compressors	2	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
Building Construction	18	725.00	162.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	10	25.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	2	145.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

3.2 Building Construction - 2019

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	4.7032	41.9301	34.2407	0.0536		2.5701	2.5701		2.4166	2.4166		5,161.5235	5,161.5235	1.2558		5,187.8958
Total	**4.7032**	**41.9301**	**34.2407**	**0.0536**		**2.5701**	**2.5701**		**2.4166**	**2.4166**		**5,161.5235**	**5,161.5235**	**1.2558**		**5,187.8958**

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	1.3653	11.2902	15.3158	0.0384	1.0751	0.1740	1.2490	0.3067	0.1601	0.4667		3,670.2634	3,670.2634	0.0270		3,670.8300
Worker	1.9517	2.2794	24.5588	0.0754	5.9557	0.0422	5.9979	1.5797	0.0391	1.6188		5,616.2301	5,616.2301	0.2554		5,621.5931
Total	**3.3170**	**13.5695**	**39.8746**	**0.1138**	**7.0308**	**0.2162**	**7.2469**	**1.8864**	**0.1992**	**2.0856**		**9,286.4934**	**9,286.4934**	**0.2824**		**9,292.4231**

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	1.3424	28.3483	35.6312	0.0536		1.8032	1.8032		1.8032	1.8032	0.0000	5,161.5235	5,161.5235	1.2558		5,187.8958
Total	**1.3424**	**28.3483**	**35.6312**	**0.0536**		**1.8032**	**1.8032**		**1.8032**	**1.8032**	**0.0000**	**5,161.5235**	**5,161.5235**	**1.2558**		**5,187.8958**

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	1.3653	11.2902	15.3158	0.0384	1.0751	0.1740	1.2490	0.3067	0.1601	0.4667		3,670.2634	3,670.2634	0.0270		3,670.8300
Worker	1.9517	2.2794	24.5588	0.0754	5.9557	0.0422	5.9979	1.5797	0.0391	1.6188		5,616.2301	5,616.2301	0.2554		5,621.5931
Total	**3.3170**	**13.5695**	**39.8746**	**0.1138**	**7.0308**	**0.2162**	**7.2469**	**1.8864**	**0.1992**	**2.0856**		**9,286.4934**	**9,286.4934**	**0.2824**		**9,292.4231**

3.3 Paving - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day											lb/day				
Off-Road	2.0090	20.3464	19.5872	0.0300		1.1503	1.1503		1.0606	1.0606		2,925.0895	2,925.0895	0.9040		2,944.0733
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**2.0090**	**20.3464**	**19.5872**	**0.0300**		**1.1503**	**1.1503**		**1.0606**	**1.0606**		**2,925.0895**	**2,925.0895**	**0.9040**		**2,944.0733**

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	0.0673	0.0786	0.8469	2.6000e-003	0.2054	1.4500e-003	0.2068	0.0545	1.3500e-003	0.0558		193.6631	193.6631	8.8100e-003		193.8480

Total	**0.0673**	**0.0786**	**0.8469**	**2.6000e-003**	**0.2054**	**1.4500e-003**	**0.2068**	**0.0545**	**1.3500e-003**	**0.0558**		**193.6631**	**193.6631**	**8.8100e-003**		**193.8480**

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	0.7009	14.5333	21.6118	0.0300		0.8413	0.8413		0.8413	0.8413	0.0000	2,925.0895	2,925.0895	0.9040		2,944.0733
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**0.7009**	**14.5333**	**21.6118**	**0.0300**		**0.8413**	**0.8413**		**0.8413**	**0.8413**	**0.0000**	**2,925.0895**	**2,925.0895**	**0.9040**		**2,944.0733**

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	0.0673	0.0786	0.8469	2.6000e-003	0.2054	1.4500e-003	0.2068	0.0545	1.3500e-003	0.0558		193.6631	193.6631	8.8100e-003		193.8480
Total	**0.0673**	**0.0786**	**0.8469**	**2.6000e-003**	**0.2054**	**1.4500e-003**	**0.2068**	**0.0545**	**1.3500e-003**	**0.0558**		**193.6631**	**193.6631**	**8.8100e-003**		**193.8480**

3.4 Architectural Coating - 2019

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	64.6168					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.5329	3.6708	3.6827	5.9400e-003		0.2575	0.2575		0.2575	0.2575		562.8961	562.8961	0.0475		563.8945
Total	**65.1497**	**3.6708**	**3.6827**	**5.9400e-003**		**0.2575**	**0.2575**		**0.2575**	**0.2575**		**562.8961**	**562.8961**	**0.0475**		**563.8945**

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	0.3903	0.4559	4.9118	0.0151	1.1911	8.4400e-003	1.1996	0.3160	7.8200e-003	0.3238		1,123.2460	1,123.2460	0.0511		1,124.3186
Total	**0.3903**	**0.4559**	**4.9118**	**0.0151**	**1.1911**	**8.4400e-003**	**1.1996**	**0.3160**	**7.8200e-003**	**0.3238**		**1,123.2460**	**1,123.2460**	**0.0511**		**1,124.3186**

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	64.6168					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1189	2.7140	3.6648	5.9400e-003		0.1902	0.1902		0.1902	0.1902	0.0000	562.8961	562.8961	0.0475		563.8945
Total	**64.7357**	**2.7140**	**3.6648**	**5.9400e-003**		**0.1902**	**0.1902**		**0.1902**	**0.1902**	**0.0000**	**562.8961**	**562.8961**	**0.0475**		**563.8945**

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	0.3903	0.4559	4.9118	0.0151	1.1911	8.4400e-003	1.1996	0.3160	7.8200e-003	0.3238		1,123.2460	1,123.2460	0.0511		1,124.3186
Total	**0.3903**	**0.4559**	**4.9118**	**0.0151**	**1.1911**	**8.4400e-003**	**1.1996**	**0.3160**	**7.8200e-003**	**0.3238**		**1,123.2460**	**1,123.2460**	**0.0511**		**1,124.3186**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	17.7804	38.8003	180.9727	0.5028	33.9139	0.5708	34.4847	9.0530	0.5265	9.5795		39,802.5004	39,802.5004	1.4958		39,833.9130
Unmitigated	17.7804	38.8003	180.9727	0.5028	33.9139	0.5708	34.4847	9.0530	0.5265	9.5795		39,802.5004	39,802.5004	1.4958		39,833.9130

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
City Park	15.90	15.90	15.90	33,944	33,944
Condo/Townhouse	4,593.23	4,990.52	4230.79	13,129,280	13,129,280
Industrial Park	665.58	238.12	69.81	1,361,797	1,361,797
Total	5,274.71	5,244.54	4,316.50	14,525,022	14,525,022

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
City Park	9.50	7.30	7.30	33.00	48.00	19.00	66	28	6
Condo/Townhouse	10.80	7.30	7.50	41.60	18.80	39.60	86	11	3
Industrial Park	9.50	7.30	7.30	59.00	28.00	13.00	79	19	2

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.512639	0.073513	0.191470	0.131122	0.036200	0.005158	0.012615	0.022741	0.001866	0.002067	0.006563	0.000594	0.003452

5.0 Energy Detail

4.4 Fleet Mix

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	0.3434	2.9671	1.4865	0.0187		0.2373	0.2373		0.2373	0.2373		3,746.4482	3,746.4482	0.0718	0.0687	3,769.2485
NaturalGas Unmitigated	0.3434	2.9671	1.4865	0.0187		0.2373	0.2373		0.2373	0.2373		3,746.4482	3,746.4482	0.0718	0.0687	3,769.2485

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					
Condo/Townhouse	26335.2	0.2840	2.4270	1.0328	0.0155		0.1962	0.1962		0.1962	0.1962		3,098.2633	3,098.2633	0.0594	0.0568	3,117.1188
Industrial Park	5509.57	0.0594	0.5402	0.4537	3.2400e-003		0.0411	0.0411		0.0411	0.0411		648.1849	648.1849	0.0124	0.0119	652.1297
City Park	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		**0.3434**	**2.9671**	**1.4865**	**0.0187**		**0.2373**	**0.2373**		**0.2373**	**0.2373**		**3,746.4482**	**3,746.4482**	**0.0718**	**0.0687**	**3,769.2485**

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					
Industrial Park	5.50957	0.0594	0.5402	0.4537	3.2400e-003		0.0411	0.0411		0.0411	0.0411		648.1849	648.1849	0.0124	0.0119	652.1297
City Park	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
Condo/Townhouse	26.3352	0.2840	2.4270	1.0328	0.0155		0.1962	0.1962		0.1962	0.1962		3,098.2633	3,098.2633	0.0594	0.0568	3,117.1188
Total		**0.3434**	**2.9671**	**1.4865**	**0.0187**		**0.2373**	**0.2373**		**0.2373**	**0.2373**		**3,746.4482**	**3,746.4482**	**0.0718**	**0.0687**	**3,769.2485**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	1,095.5825	15.1415	1,371.8408	0.5163		184.9316	184.9316		184.9262	184.9262	19,356.8963	8,221.5641	27,578.4604	17.9649	1.5226	28,427.7187
Unmitigated	1,095.5825	15.1415	1,371.8408	0.5163		184.9316	184.9316		184.9262	184.9262	19,356.8963	8,221.5641	27,578.4604	17.9649	1.5226	28,427.7187

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	0.8432					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	26.2840					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	1,066.6853	14.4721	1,314.0417	0.5133		184.6149	184.6149		184.6095	184.6095	19,356.8963	8,118.0000	27,474.8963	17.8632	1.5226	28,322.0190
Landscaping	1.7700	0.6694	57.7991	3.0400e-003		0.3167	0.3167		0.3167	0.3167		103.5641	103.5641	0.1017		105.6997
Total	**1,095.5825**	**15.1415**	**1,371.8408**	**0.5163**		**184.9316**	**184.9316**		**184.9262**	**184.9262**	**19,356.8963**	**8,221.5641**	**27,578.4604**	**17.9649**	**1.5226**	**28,427.7187**

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	0.8432					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	26.2840					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	1,066.6853	14.4721	1,314.0417	0.5133		184.6149	184.6149		184.6095	184.6095	19,356.8963	8,118.0000	27,474.8963	17.8632	1.5226	28,322.0190
Landscaping	1.7700	0.6694	57.7991	3.0400e-003		0.3167	0.3167		0.3167	0.3167		103.5641	103.5641	0.1017		105.6997
Total	**1,095.5825**	**15.1415**	**1,371.8408**	**0.5163**		**184.9316**	**184.9316**		**184.9262**	**184.9262**	**19,356.8963**	**8,221.5641**	**27,578.4604**	**17.9649**	**1.5226**	**28,427.7187**

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 Vegetation

East Otay Mesa Specific Plan Amendment Phase 3 Construction

San Diego Air Basin, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Industrial Park	95.63	1000sqft	4.00	95,625.00	0
Condo/Townhouse	337.00	Dwelling Unit	21.06	337,000.00	964

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.6	**Precipitation Freq (Days)**	40
Climate Zone	13			**Operational Year**	2020
Utility Company	San Diego Gas & Electric				
CO2 Intensity (lb/MWhr)	720.49	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Construction Off-road Equipment Mitigation - Tier 3 equipment

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	250.00	100.00
tblArchitecturalCoating	EF_Nonresidential_Interior	250.00	50.00
tblArchitecturalCoating	EF_Residential_Exterior	250.00	100.00
tblArchitecturalCoating	EF_Residential_Interior	250.00	50.00
tblAreaCoating	Area_Nonresidential_Interior	143438	0
tblAreaCoating	Area_Residential_Exterior	227475	0
tblAreaCoating	Area_Residential_Interior	682425	0
tblAreaMitigation	UseLowVOCPaintNonresidentialExterior Value	250	0

tblAreaMitigation	UseLowVOCPaintNonresidentialInteriorValue	250	0
tblAreaMitigation	UseLowVOCPaintResidentialExteriorValue	250	0
tblAreaMitigation	UseLowVOCPaintResidentialInteriorValue	250	0
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	6.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	6.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstructionPhase	NumDays	35.00	132.00
tblConstructionPhase	NumDays	440.00	262.00
tblConstructionPhase	NumDays	35.00	262.00
tblConstructionPhase	PhaseEndDate	7/5/2021	12/31/2020
tblConstructionPhase	PhaseEndDate	1/3/2022	12/31/2020
tblConstructionPhase	PhaseStartDate	1/1/2021	1/1/2020
tblConstructionPhase	PhaseStartDate	1/1/2021	1/1/2020

tblLandUse	LandUseSquareFeet	95,630.00	95,625.00
tblLandUse	LotAcreage	2.20	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	6.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	6.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblProjectCharacteristics	OperationalYear	2014	2020
tblTripsAndVMT	WorkerTripNumber	20.00	25.00

2.0 Emissions Summary

2.1 Overall Construction

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2020	4.1492	7.9148	9.0683	0.0172	0.4277	0.4306	0.8583	0.1146	0.4047	0.5193	0.0000	1,382.1733	1,382.1733	0.2522	0.0000	1,387.4704
Total	**4.1492**	**7.9148**	**9.0683**	**0.0172**	**0.4277**	**0.4306**	**0.8583**	**0.1146**	**0.4047**	**0.5193**	**0.0000**	**1,382.1733**	**1,382.1733**	**0.2522**	**0.0000**	**1,387.4704**

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					
2020	3.6064	6.0900	9.5890	0.0172	0.4277	0.3489	0.7766	0.1146	0.3481	0.4627	0.0000	1,382.1722	1,382.1722	0.2522	0.0000	1,387.4693
Total	**3.6064**	**6.0900**	**9.5890**	**0.0172**	**0.4277**	**0.3489**	**0.7766**	**0.1146**	**0.3481**	**0.4627**	**0.0000**	**1,382.1722**	**1,382.1722**	**0.2522**	**0.0000**	**1,387.4693**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**13.08**	**23.06**	**-5.74**	**0.00**	**0.00**	**18.98**	**9.52**	**0.00**	**13.98**	**10.89**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	22.9393	0.3159	28.5604	0.0103		3.6735	3.6735		3.6734	3.6734	348.1068	150.0800	498.1868	0.3252	0.0274	513.5049
Energy	0.0359	0.3127	0.1739	1.9600e-003		0.0248	0.0248		0.0248	0.0248	0.0000	1,301.1261	1,301.1261	0.0449	0.0144	1,306.5296
Mobile	1.4872	3.2663	15.3187	0.0421	2.8991	0.0483	2.9474	0.7754	0.0446	0.8199	0.0000	2,923.3490	2,923.3490	0.1130	0.0000	2,925.7210
Waste						0.0000	0.0000		0.0000	0.0000	55.5383	0.0000	55.5383	3.2822	0.0000	124.4650
Water						0.0000	0.0000		0.0000	0.0000	13.9818	237.7998	251.7816	1.4456	0.0359	293.2655
Total	**24.4625**	**3.8949**	**44.0530**	**0.0544**	**2.8991**	**3.7467**	**6.6457**	**0.7754**	**3.7428**	**4.5182**	**417.6269**	**4,612.3549**	**5,029.9817**	**5.2109**	**0.0777**	**5,163.4860**

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	22.9393	0.3159	28.5604	0.0103		3.6735	3.6735		3.6734	3.6734	348.1068	150.0800	498.1868	0.3252	0.0274	513.5049
Energy	0.0359	0.3127	0.1739	1.9600e-003		0.0248	0.0248		0.0248	0.0248	0.0000	1,301.1261	1,301.1261	0.0449	0.0144	1,306.5296
Mobile	1.4872	3.2663	15.3187	0.0421	2.8991	0.0483	2.9474	0.7754	0.0446	0.8199	0.0000	2,923.3490	2,923.3490	0.1130	0.0000	2,925.7210
Waste						0.0000	0.0000		0.0000	0.0000	55.5383	0.0000	55.5383	3.2822	0.0000	124.4650
Water						0.0000	0.0000		0.0000	0.0000	13.9818	237.7998	251.7816	1.4454	0.0358	293.2432
Total	**24.4625**	**3.8949**	**44.0530**	**0.0544**	**2.8991**	**3.7467**	**6.6457**	**0.7754**	**3.7428**	**4.5182**	**417.6269**	**4,612.3549**	**5,029.9817**	**5.2107**	**0.0776**	**5,163.4637**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.01**	**0.08**	**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	Building Construction	Building Construction	1/1/2020	12/31/2020	5	262	
2	Paving	Paving	1/1/2020	12/31/2020	5	262	
3	Architectural Coating	Architectural Coating	1/1/2020	12/31/2020	5	132	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

Residential Indoor: 682,425; Residential Outdoor: 227,475; Non-Residential Indoor: 143,438; Non-Residential Outdoor: 47,813

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Building Construction	Cranes	2	7.00	226	0.29
Building Construction	Forklifts	6	8.00	89	0.20
Building Construction	Generator Sets	2	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	6	7.00	97	0.37
Building Construction	Welders	2	8.00	46	0.45
Paving	Cement and Mortar Mixers	2	8.00	9	0.56
Paving	Pavers	2	8.00	125	0.42
Paving	Paving Equipment	2	8.00	130	0.36
Paving	Rollers	2	8.00	80	0.38
Architectural Coating	Air Compressors	2	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
Building Construction	18	283.00	52.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	8	25.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	2	57.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

Clean Paved Roads

3.2 Building Construction - 2020

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	0.5532	5.0000	4.4038	7.0200e-003		0.2916	0.2916		0.2742	0.2742	0.0000	604.3027	604.3027	0.1472	0.0000	607.3945
Total	**0.5532**	**5.0000**	**4.4038**	**7.0200e-003**		**0.2916**	**0.2916**		**0.2742**	**0.2742**	**0.0000**	**604.3027**	**604.3027**	**0.1472**	**0.0000**	**607.3945**

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	0.0588	0.4163	0.7762	1.6100e-003	0.0443	6.5800e-003	0.0509	0.0127	6.0600e-003	0.0187	0.0000	136.3623	136.3623	1.0100e-003	0.0000	136.3835
Worker	0.0919	0.1203	1.1223	3.6600e-003	0.2973	2.1600e-003	0.2995	0.0790	2.0000e-003	0.0810	0.0000	237.1146	237.1146	0.0113	0.0000	237.3512
Total	**0.1507**	**0.5365**	**1.8985**	**5.2700e-003**	**0.3416**	**8.7400e-003**	**0.3503**	**0.0917**	**8.0600e-003**	**0.0997**	**0.0000**	**373.4769**	**373.4769**	**0.0123**	**0.0000**	**373.7347**

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	0.1759	3.7136	4.6677	7.0200e-003		0.2362	0.2362		0.2362	0.2362	0.0000	604.3020	604.3020	0.1472	0.0000	607.3938
Total	**0.1759**	**3.7136**	**4.6677**	**7.0200e-003**		**0.2362**	**0.2362**		**0.2362**	**0.2362**	**0.0000**	**604.3020**	**604.3020**	**0.1472**	**0.0000**	**607.3938**

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	0.0588	0.4163	0.7762	1.6100e-003	0.0443	6.5800e-003	0.0509	0.0127	6.0600e-003	0.0187	0.0000	136.3623	136.3623	1.0100e-003	0.0000	136.3835
Worker	0.0919	0.1203	1.1223	3.6600e-003	0.2973	2.1600e-003	0.2995	0.0790	2.0000e-003	0.0810	0.0000	237.1146	237.1146	0.0113	0.0000	237.3512
Total	**0.1507**	**0.5365**	**1.8985**	**5.2700e-003**	**0.3416**	**8.7400e-003**	**0.3503**	**0.0917**	**8.0600e-003**	**0.0997**	**0.0000**	**373.4769**	**373.4769**	**0.0123**	**0.0000**	**373.7347**

3.3 Paving - 2020

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	0.1896	1.9022	1.9610	3.1100e-003		0.1006	0.1006		0.0928	0.0928	0.0000	268.7938	268.7938	0.0843	0.0000	270.5640
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.1896**	**1.9022**	**1.9610**	**3.1100e-003**		**0.1006**	**0.1006**		**0.0928**	**0.0928**	**0.0000**	**268.7938**	**268.7938**	**0.0843**	**0.0000**	**270.5640**

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	8.1200e-003	0.0106	0.0991	3.2000e-004	0.0263	1.9000e-004	0.0265	6.9800e-003	1.8000e-004	7.1600e-003	0.0000	20.9465	20.9465	1.0000e-003	0.0000	20.9674
Total	**8.1200e-003**	**0.0106**	**0.0991**	**3.2000e-004**	**0.0263**	**1.9000e-004**	**0.0265**	**6.9800e-003**	**1.8000e-004**	**7.1600e-003**	**0.0000**	**20.9465**	**20.9465**	**1.0000e-003**	**0.0000**	**20.9674**

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	0.0719	1.4494	2.2175	3.1100e-003		0.0784	0.0784		0.0784	0.0784	0.0000	268.7935	268.7935	0.0843	0.0000	270.5637
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0719**	**1.4494**	**2.2175**	**3.1100e-003**		**0.0784**	**0.0784**		**0.0784**	**0.0784**	**0.0000**	**268.7935**	**268.7935**	**0.0843**	**0.0000**	**270.5637**

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	8.1200e-003	0.0106	0.0991	3.2000e-004	0.0263	1.9000e-004	0.0265	6.9800e-003	1.8000e-004	7.1600e-003	0.0000	20.9465	20.9465	1.0000e-003	0.0000	20.9674
Total	**8.1200e-003**	**0.0106**	**0.0991**	**3.2000e-004**	**0.0263**	**1.9000e-004**	**0.0265**	**6.9800e-003**	**1.8000e-004**	**7.1600e-003**	**0.0000**	**20.9465**	**20.9465**	**1.0000e-003**	**0.0000**	**20.9674**

3.4 Architectural Coating - 2020

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	3.1657					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0635	0.4412	0.4798	7.8000e-004		0.0291	0.0291		0.0291	0.0291	0.0000	66.8953	66.8953	5.1800e-003	0.0000	67.0040
Total	**3.2292**	**0.4412**	**0.4798**	**7.8000e-004**		**0.0291**	**0.0291**		**0.0291**	**0.0291**	**0.0000**	**66.8953**	**66.8953**	**5.1800e-003**	**0.0000**	**67.0040**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0185	0.0242	0.2260	7.4000e-004	0.0599	4.4000e-004	0.0603	0.0159	4.0000e-004	0.0163	0.0000	47.7581	47.7581	2.2700e-003	0.0000	47.8057
Total	**0.0185**	**0.0242**	**0.2260**	**7.4000e-004**	**0.0599**	**4.4000e-004**	**0.0603**	**0.0159**	**4.0000e-004**	**0.0163**	**0.0000**	**47.7581**	**47.7581**	**2.2700e-003**	**0.0000**	**47.8057**

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	3.1657					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0156	0.3555	0.4801	7.8000e-004		0.0249	0.0249		0.0249	0.0249	0.0000	66.8952	66.8952	5.1800e-003	0.0000	67.0039
Total	**3.1813**	**0.3555**	**0.4801**	**7.8000e-004**		**0.0249**	**0.0249**		**0.0249**	**0.0249**	**0.0000**	**66.8952**	**66.8952**	**5.1800e-003**	**0.0000**	**67.0039**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0185	0.0242	0.2260	7.4000e-004	0.0599	4.4000e-004	0.0603	0.0159	4.0000e-004	0.0163	0.0000	47.7581	47.7581	2.2700e-003	0.0000	47.8057
Total	**0.0185**	**0.0242**	**0.2260**	**7.4000e-004**	**0.0599**	**4.4000e-004**	**0.0603**	**0.0159**	**4.0000e-004**	**0.0163**	**0.0000**	**47.7581**	**47.7581**	**2.2700e-003**	**0.0000**	**47.8057**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	1.4872	3.2663	15.3187	0.0421	2.8991	0.0483	2.9474	0.7754	0.0446	0.8199	0.0000	2,923.3490	2,923.3490	0.1130	0.0000	2,925.7210
Unmitigated	1.4872	3.2663	15.3187	0.0421	2.8991	0.0483	2.9474	0.7754	0.0446	0.8199	0.0000	2,923.3490	2,923.3490	0.1130	0.0000	2,925.7210

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Condo/Townhouse	2,220.83	2,412.92	2045.59	6,348,016	6,348,016
Industrial Park	665.58	238.12	69.81	1,361,797	1,361,797
Total	2,886.41	2,651.04	2,115.40	7,709,814	7,709,814

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Condo/Townhouse	10.80	7.30	7.50	41.60	18.80	39.60	86	11	3
Industrial Park	9.50	7.30	7.30	59.00	28.00	13.00	79	19	2

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.513300	0.073549	0.191092	0.130830	0.036094	0.005140	0.012550	0.022916	0.001871	0.002062	0.006564	0.000586	0.003446

5.0 Energy Detail

4.4 Fleet Mix

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	945.7990	945.7990	0.0381	7.8800e-003	949.0401
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	945.7990	945.7990	0.0381	7.8800e-003	949.0401
NaturalGas Mitigated	0.0359	0.3127	0.1739	1.9600e-003		0.0248	0.0248		0.0248	0.0248	0.0000	355.3271	355.3271	6.8100e-003	6.5100e-003	357.4895
NaturalGas Unmitigated	0.0359	0.3127	0.1739	1.9600e-003		0.0248	0.0248		0.0248	0.0248	0.0000	355.3271	355.3271	6.8100e-003	6.5100e-003	357.4895

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					
Industrial Park	2.01099e+006	0.0108	0.0986	0.0828	5.9000e-004		7.4900e-003	7.4900e-003		7.4900e-003	7.4900e-003	0.0000	107.3143	107.3143	2.0600e-003	1.9700e-003	107.9674
Condo/Townhouse	4.64758e+006	0.0251	0.2142	0.0911	1.3700e-003		0.0173	0.0173		0.0173	0.0173	0.0000	248.0128	248.0128	4.7500e-003	4.5500e-003	249.5221
Total		**0.0359**	**0.3127**	**0.1739**	**1.9600e-003**		**0.0248**	**0.0248**		**0.0248**	**0.0248**	**0.0000**	**355.3271**	**355.3271**	**6.8100e-003**	**6.5200e-003**	**357.4895**

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					
Industrial Park	2.01099e+006	0.0108	0.0986	0.0828	5.9000e-004		7.4900e-003	7.4900e-003		7.4900e-003	7.4900e-003	0.0000	107.3143	107.3143	2.0600e-003	1.9700e-003	107.9674
Condo/Townhouse	4.64758e+006	0.0251	0.2142	0.0911	1.3700e-003		0.0173	0.0173		0.0173	0.0173	0.0000	248.0128	248.0128	4.7500e-003	4.5500e-003	249.5221
Total		**0.0359**	**0.3127**	**0.1739**	**1.9600e-003**		**0.0248**	**0.0248**		**0.0248**	**0.0248**	**0.0000**	**355.3271**	**355.3271**	**6.8100e-003**	**6.5200e-003**	**357.4895**

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Condo/Townhouse	1.46063e+006	477.3452	0.0192	3.9800e-003	478.9810
Industrial Park	1.43342e+006	468.4538	0.0189	3.9000e-003	470.0591
Total		**945.7990**	**0.0381**	**7.8800e-003**	**949.0401**

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Condo/Townhouse	1.46063e+006	477.3452	0.0192	3.9800e-003	478.9810
Industrial Park	1.43342e+006	468.4538	0.0189	3.9000e-003	470.0591
Total		**945.7990**	**0.0381**	**7.8800e-003**	**949.0401**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	22.9393	0.3159	28.5604	0.0103		3.6735	3.6735		3.6734	3.6734	348.1068	150.0800	498.1868	0.3252	0.0274	513.5049
Unmitigated	22.9393	0.3159	28.5604	0.0103		3.6735	3.6735		3.6734	3.6734	348.1068	150.0800	498.1868	0.3252	0.0274	513.5049

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	0.0277					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	1.6896					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	21.1455	0.2869	26.0489	0.0102		3.6597	3.6597		3.6596	3.6596	348.1068	145.9909	494.0976	0.3212	0.0274	509.3320
Landscaping	0.0765	0.0291	2.5115	1.3000e-004		0.0138	0.0138		0.0138	0.0138	0.0000	4.0891	4.0891	3.9900e-003	0.0000	4.1729
Total	**22.9393**	**0.3159**	**28.5604**	**0.0103**		**3.6735**	**3.6735**		**3.6734**	**3.6734**	**348.1068**	**150.0800**	**498.1868**	**0.3252**	**0.0274**	**513.5049**

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	0.0277					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	1.6896					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	21.1455	0.2869	26.0489	0.0102		3.6597	3.6597		3.6596	3.6596	348.1068	145.9909	494.0976	0.3212	0.0274	509.3320
Landscaping	0.0765	0.0291	2.5115	1.3000e-004		0.0138	0.0138		0.0138	0.0138	0.0000	4.0891	4.0891	3.9900e-003	0.0000	4.1729
Total	**22.9393**	**0.3159**	**28.5604**	**0.0103**		**3.6735**	**3.6735**		**3.6734**	**3.6734**	**348.1068**	**150.0800**	**498.1868**	**0.3252**	**0.0274**	**513.5049**

7.0 Water Detail

7.1 Mitigation Measures Water

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	251.7816	1.4454	0.0358	293.2432
Unmitigated	251.7816	1.4456	0.0359	293.2655

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Condo/Townhouse	21.9569 / 13.8424	150.6604	0.7213	0.0181	171.4147
Industrial Park	22.1144 / 0	101.1212	0.7244	0.0178	121.8509
Total		**251.7816**	**1.4456**	**0.0359**	**293.2655**

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Condo/Townhouse	21.9569 / 13.8424	150.6604	0.7211	0.0181	171.4036
Industrial Park	22.1144 / 0	101.1212	0.7243	0.0178	121.8397
Total		**251.7816**	**1.4454**	**0.0358**	**293.2432**

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			

Mitigated	55.5383	3.2822	0.0000	124.4650
Unmitigated	55.5383	3.2822	0.0000	124.4650

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Condo/Townhouse	155.02	31.4677	1.8597	0.0000	70.5211
Industrial Park	118.58	24.0707	1.4225	0.0000	53.9439
Total		**55.5383**	**3.2822**	**0.0000**	**124.4650**

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Condo/Townhouse	155.02	31.4677	1.8597	0.0000	70.5211
Industrial Park	118.58	24.0707	1.4225	0.0000	53.9439
Total		**55.5383**	**3.2822**	**0.0000**	**124.4650**

9.0 Operational Offroad

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

10.0 Vegetation

East Otay Mesa Specific Plan Amendment Phase 3 Construction

San Diego Air Basin, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Industrial Park	95.63	1000sqft	4.00	95,625.00	0
Condo/Townhouse	337.00	Dwelling Unit	21.06	337,000.00	964

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.6	**Precipitation Freq (Days)**	40
Climate Zone	13			**Operational Year**	2020
Utility Company	San Diego Gas & Electric				
CO2 Intensity (lb/MWhr)	720.49	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Construction Off-road Equipment Mitigation - Tier 3 equipment

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	250.00	100.00
tblArchitecturalCoating	EF_Nonresidential_Interior	250.00	50.00
tblArchitecturalCoating	EF_Residential_Exterior	250.00	100.00
tblArchitecturalCoating	EF_Residential_Interior	250.00	50.00
tblAreaCoating	Area_Nonresidential_Interior	143438	0
tblAreaCoating	Area_Residential_Exterior	227475	0
tblAreaCoating	Area_Residential_Interior	682425	0
tblAreaMitigation	UseLowVOCPaintNonresidentialExteriorValue	250	0

tblAreaMitigation	UseLowVOCPaintNonresidentialInteriorValue	250	0
tblAreaMitigation	UseLowVOCPaintResidentialExteriorValue	250	0
tblAreaMitigation	UseLowVOCPaintResidentialInteriorValue	250	0
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	6.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	6.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstructionPhase	NumDays	35.00	132.00
tblConstructionPhase	NumDays	440.00	262.00
tblConstructionPhase	NumDays	35.00	262.00
tblConstructionPhase	PhaseEndDate	7/5/2021	12/31/2020
tblConstructionPhase	PhaseEndDate	1/3/2022	12/31/2020
tblConstructionPhase	PhaseStartDate	1/1/2021	1/1/2020
tblConstructionPhase	PhaseStartDate	1/1/2021	1/1/2020

tblLandUse	LandUseSquareFeet	95,630.00	95,625.00
tblLandUse	LotAcreage	2.20	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	6.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	6.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblProjectCharacteristics	OperationalYear	2014	2020
tblTripsAndVMT	WorkerTripNumber	20.00	25.00

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2020	31.6649	60.2165	68.5620	0.1336	3.3435	3.2865	6.6300	0.8937	3.0891	3.9829	0.0000	11,774.4773	11,774.4773	2.1224	0.0000	11,819.0479
Total	**31.6649**	**60.2165**	**68.5620**	**0.1336**	**3.3435**	**3.2865**	**6.6300**	**0.8937**	**3.0891**	**3.9829**	**0.0000**	**11,774.4773**	**11,774.4773**	**2.1224**	**0.0000**	**11,819.0479**

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					
2020	27.5207	46.2868	72.5366	0.1336	3.3435	2.6629	6.0063	0.8937	2.6573	3.5511	0.0000	11,774.4773	11,774.4773	2.1224	0.0000	11,819.0479
Total	**27.5207**	**46.2868**	**72.5366**	**0.1336**	**3.3435**	**2.6629**	**6.0063**	**0.8937**	**2.6573**	**3.5511**	**0.0000**	**11,774.4773**	**11,774.4773**	**2.1224**	**0.0000**	**11,819.0479**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**13.09**	**23.13**	**-5.80**	**0.00**	**0.00**	**18.98**	**9.41**	**0.00**	**13.98**	**10.84**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	526.0034	7.3200	663.2453	0.2496		89.4149	89.4149		89.4122	89.4122	9,359.0733	3,975.1419	13,334.2152	8.6857	0.7362	13,744.8259
Energy	0.1967	1.7136	0.9531	0.0107		0.1359	0.1359		0.1359	0.1359		2,146.1975	2,146.1975	0.0411	0.0394	2,159.2589
Mobile	9.2050	18.9981	92.3796	0.2709	18.2693	0.2972	18.5666	4.8767	0.2743	5.1510		20,681.9911	20,681.9911	0.7670		20,698.0974
Total	**535.4052**	**28.0317**	**756.5779**	**0.5312**	**18.2693**	**89.8480**	**108.1174**	**4.8767**	**89.8224**	**94.6991**	**9,359.0733**	**26,803.3305**	**36,162.4037**	**9.4938**	**0.7755**	**36,602.1821**

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	526.0034	7.3200	663.2453	0.2496		89.4149	89.4149		89.4122	89.4122	9,359.0733	3,975.1419	13,334.2152	8.6857	0.7362	13,744.8259
Energy	0.1967	1.7136	0.9531	0.0107		0.1359	0.1359		0.1359	0.1359		2,146.1975	2,146.1975	0.0411	0.0394	2,159.2589
Mobile	9.2050	18.9981	92.3796	0.2709	18.2693	0.2972	18.5666	4.8767	0.2743	5.1510		20,681.9911	20,681.9911	0.7670		20,698.0974
Total	**535.4052**	**28.0317**	**756.5779**	**0.5312**	**18.2693**	**89.8480**	**108.1174**	**4.8767**	**89.8224**	**94.6991**	**9,359.0733**	**26,803.3305**	**36,162.4037**	**9.4938**	**0.7755**	**36,602.1821**

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

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Building Construction	Building Construction	1/1/2020	12/31/2020	5	262	
2	Paving	Paving	1/1/2020	12/31/2020	5	262	
3	Architectural Coating	Architectural Coating	1/1/2020	12/31/2020	5	132	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

Residential Indoor: 682,425; Residential Outdoor: 227,475; Non-Residential Indoor: 143,438; Non-Residential Outdoor: 47,813

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Building Construction	Cranes	2	7.00	226	0.29
Building Construction	Forklifts	6	8.00	89	0.20
Building Construction	Generator Sets	2	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	6	7.00	97	0.37

Building Construction	Welders	2	8.00	46	0.45
Paving	Cement and Mortar Mixers	2	8.00	9	0.56
Paving	Pavers	2	8.00	125	0.42
Paving	Paving Equipment	2	8.00	130	0.36
Paving	Rollers	2	8.00	80	0.38
Architectural Coating	Air Compressors	2	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
Building Construction	18	283.00	52.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	8	25.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	2	57.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

Clean Paved Roads

3.2 Building Construction - 2020

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	4.2225	38.1679	33.6169	0.0536		2.2257	2.2257		2.0929	2.0929		5,084.9598	5,084.9598	1.2389		5,110.9761
Total	**4.2225**	**38.1679**	**33.6169**	**0.0536**		**2.2257**	**2.2257**		**2.0929**	**2.0929**		**5,084.9598**	**5,084.9598**	**1.2389**		**5,110.9761**

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	0.4147	3.0876	4.7385	0.0123	0.3451	0.0501	0.3951	0.0984	0.0461	0.1445		1,151.1805	1,151.1805	8.3800e-003		1,151.3564
Worker	0.7210	0.8316	8.9742	0.0294	2.3248	0.0165	2.3413	0.6166	0.0153	0.6319		2,104.0090	2,104.0090	0.0948		2,105.9997
Total	**1.1356**	**3.9192**	**13.7127**	**0.0417**	**2.6698**	**0.0666**	**2.7364**	**0.7151**	**0.0614**	**0.7764**		**3,255.1895**	**3,255.1895**	**0.1032**		**3,257.3561**

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	1.3424	28.3483	35.6312	0.0536		1.8032	1.8032		1.8032	1.8032	0.0000	5,084.9598	5,084.9598	1.2389		5,110.9761
Total	**1.3424**	**28.3483**	**35.6312**	**0.0536**		**1.8032**	**1.8032**		**1.8032**	**1.8032**	**0.0000**	**5,084.9598**	**5,084.9598**	**1.2389**		**5,110.9761**

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	0.4147	3.0876	4.7385	0.0123	0.3451	0.0501	0.3951	0.0984	0.0461	0.1445		1,151.1805	1,151.1805	8.3800e-003		1,151.3564
Worker	0.7210	0.8316	8.9742	0.0294	2.3248	0.0165	2.3413	0.6166	0.0153	0.6319		2,104.0090	2,104.0090	0.0948		2,105.9997
Total	**1.1356**	**3.9192**	**13.7127**	**0.0417**	**2.6698**	**0.0666**	**2.7364**	**0.7151**	**0.0614**	**0.7764**		**3,255.1895**	**3,255.1895**	**0.1032**		**3,257.3561**

3.3 Paving - 2020

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	1.4476	14.5209	14.9692	0.0237		0.7677	0.7677		0.7085	0.7085		2,261.7897	2,261.7897	0.7093		2,276.6855
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**1.4476**	**14.5209**	**14.9692**	**0.0237**		**0.7677**	**0.7677**		**0.7085**	**0.7085**		**2,261.7897**	**2,261.7897**	**0.7093**		**2,276.6855**

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	0.0637	0.0735	0.7928	2.6000e-003	0.2054	1.4600e-003	0.2068	0.0545	1.3500e-003	0.0558		185.8665	185.8665	8.3700e-003		186.0424
Total	**0.0637**	**0.0735**	**0.7928**	**2.6000e-003**	**0.2054**	**1.4600e-003**	**0.2068**	**0.0545**	**1.3500e-003**	**0.0558**		**185.8665**	**185.8665**	**8.3700e-003**		**186.0424**

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	0.5490	11.0645	16.9276	0.0237		0.5982	0.5982		0.5982	0.5982	0.0000	2,261.7897	2,261.7897	0.7093		2,276.6855
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**0.5490**	**11.0645**	**16.9276**	**0.0237**		**0.5982**	**0.5982**		**0.5982**	**0.5982**	**0.0000**	**2,261.7897**	**2,261.7897**	**0.7093**		**2,276.6855**

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	0.0637	0.0735	0.7928	2.6000e-003	0.2054	1.4600e-003	0.2068	0.0545	1.3500e-003	0.0558		185.8665	185.8665	8.3700e-003		186.0424
Total	**0.0637**	**0.0735**	**0.7928**	**2.6000e-003**	**0.2054**	**1.4600e-003**	**0.2068**	**0.0545**	**1.3500e-003**	**0.0558**		**185.8665**	**185.8665**	**8.3700e-003**		**186.0424**

3.4 Architectural Coating - 2020

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	24.1659					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.4844	3.3677	3.6628	5.9400e-003		0.2219	0.2219		0.2219	0.2219		562.8961	562.8961	0.0436		563.8113
Total	**24.6502**	**3.3677**	**3.6628**	**5.9400e-003**		**0.2219**	**0.2219**		**0.2219**	**0.2219**		**562.8961**	**562.8961**	**0.0436**		**563.8113**

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	0.1452	0.1675	1.8075	5.9300e-003	0.4682	3.3200e-003	0.4716	0.1242	3.0800e-003	0.1273		423.7757	423.7757	0.0191		424.1766
Total	**0.1452**	**0.1675**	**1.8075**	**5.9300e-003**	**0.4682**	**3.3200e-003**	**0.4716**	**0.1242**	**3.0800e-003**	**0.1273**		**423.7757**	**423.7757**	**0.0191**		**424.1766**

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	24.1659					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1189	2.7140	3.6648	5.9400e-003		0.1902	0.1902		0.1902	0.1902	0.0000	562.8961	562.8961	0.0436		563.8113
Total	**24.2848**	**2.7140**	**3.6648**	**5.9400e-003**		**0.1902**	**0.1902**		**0.1902**	**0.1902**	**0.0000**	**562.8961**	**562.8961**	**0.0436**		**563.8113**

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	0.1452	0.1675	1.8075	5.9300e-003	0.4682	3.3200e-003	0.4716	0.1242	3.0800e-003	0.1273		423.7757	423.7757	0.0191		424.1766
Total	**0.1452**	**0.1675**	**1.8075**	**5.9300e-003**	**0.4682**	**3.3200e-003**	**0.4716**	**0.1242**	**3.0800e-003**	**0.1273**		**423.7757**	**423.7757**	**0.0191**		**424.1766**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e

Category	lb/day										lb/day				
Mitigated	9.2050	18.9981	92.3796	0.2709	18.2693	0.2972	18.5666	4.8767	0.2743	5.1510	20,681.9911	20,681.9911	0.7670		20,698.0974
Unmitigated	9.2050	18.9981	92.3796	0.2709	18.2693	0.2972	18.5666	4.8767	0.2743	5.1510	20,681.9911	20,681.9911	0.7670		20,698.0974

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Condo/Townhouse	2,220.83	2,412.92	2045.59	6,348,016	6,348,016
Industrial Park	665.58	238.12	69.81	1,361,797	1,361,797
Total	2,886.41	2,651.04	2,115.40	7,709,814	7,709,814

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-...	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Condo/Townhouse	10.80	7.30	7.50	41.60	18.80	39.60	86	11	3
Industrial Park	9.50	7.30	7.30	59.00	28.00	13.00	79	19	2

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.513300	0.073549	0.191092	0.130830	0.036094	0.005140	0.012550	0.022916	0.001871	0.002062	0.006564	0.000586	0.003446

5.0 Energy Detail

4.4 Fleet Mix

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	0.1967	1.7136	0.9531	0.0107		0.1359	0.1359		0.1359	0.1359		2,146.1975	2,146.1975	0.0411	0.0394	2,159.2589
NaturalGas Unmitigated	0.1967	1.7136	0.9531	0.0107		0.1359	0.1359		0.1359	0.1359		2,146.1975	2,146.1975	0.0411	0.0394	2,159.2589

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					
Industrial Park	5509.57	0.0594	0.5402	0.4537	3.2400e-003		0.0411	0.0411		0.0411	0.0411		648.1849	648.1849	0.0124	0.0119	652.1297
Condo/Townhouse	12733.1	0.1373	1.1734	0.4993	7.4900e-003		0.0949	0.0949		0.0949	0.0949		1,498.0125	1,498.0125	0.0287	0.0275	1,507.1292
Total		**0.1967**	**1.7136**	**0.9531**	**0.0107**		**0.1359**	**0.1359**		**0.1359**	**0.1359**		**2,146.1975**	**2,146.1975**	**0.0411**	**0.0393**	**2,159.2589**

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					
Industrial Park	5.50957	0.0594	0.5402	0.4537	3.2400e-003		0.0411	0.0411		0.0411	0.0411		648.1849	648.1849	0.0124	0.0119	652.1297
Condo/Townhouse	12.7331	0.1373	1.1734	0.4993	7.4900e-003		0.0949	0.0949		0.0949	0.0949		1,498.0125	1,498.0125	0.0287	0.0275	1,507.1292
Total		**0.1967**	**1.7136**	**0.9531**	**0.0107**		**0.1359**	**0.1359**		**0.1359**	**0.1359**		**2,146.1975**	**2,146.1975**	**0.0411**	**0.0393**	**2,159.2589**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	526.0034	7.3200	663.2453	0.2496		89.4149	89.4149		89.4122	89.4122	9,359.0733	3,975.1419	13,334.2152	8.6857	0.7362	13,744.8259
Unmitigated	526.0034	7.3200	663.2453	0.2496		89.4149	89.4149		89.4122	89.4122	9,359.0733	3,975.1419	13,334.2152	8.6857	0.7362	13,744.8259

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	0.1518					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	9.2582					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	515.7431	6.9973	635.3401	0.2482		89.2614	89.2614		89.2588	89.2588	9,359.0733	3,925.0588	13,284.1321	8.6369	0.7362	13,693.7165
Landscaping	0.8504	0.3227	27.9052	1.4700e-003		0.1534	0.1534		0.1534	0.1534		50.0831	50.0831	0.0489		51.1094
Total	**526.0034**	**7.3200**	**663.2453**	**0.2496**		**89.4149**	**89.4149**		**89.4122**	**89.4122**	**9,359.0733**	**3,975.1419**	**13,334.2152**	**8.6857**	**0.7362**	**13,744.8259**

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	0.1518					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	9.2582					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	515.7431	6.9973	635.3401	0.2482		89.2614	89.2614		89.2588	89.2588	9,359.0733	3,925.0588	13,284.1321	8.6369	0.7362	13,693.7165
Landscaping	0.8504	0.3227	27.9052	1.4700e-003		0.1534	0.1534		0.1534	0.1534		50.0831	50.0831	0.0489		51.1094
Total	**526.0034**	**7.3200**	**663.2453**	**0.2496**		**89.4149**	**89.4149**		**89.4122**	**89.4122**	**9,359.0733**	**3,975.1419**	**13,334.2152**	**8.6857**	**0.7362**	**13,744.8259**

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 Vegetation

East Otay Mesa Specific Plan Amendment Phase 4 Construction

San Diego Air Basin, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Industrial Park	95.63	1000sqft	4.00	95,625.00	0
City Park	9.00	Acre	9.00	392,040.00	0
Condo/Townhouse	837.00	Dwelling Unit	52.31	837,000.00	2394

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.6	**Precipitation Freq (Days)**	40
Climate Zone	13			**Operational Year**	2021
Utility Company	San Diego Gas & Electric				
CO2 Intensity (lb/MWhr)	720.49	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	250.00	100.00
tblArchitecturalCoating	EF_Nonresidential_Interior	250.00	50.00
tblArchitecturalCoating	EF_Residential_Exterior	250.00	100.00
tblArchitecturalCoating	EF_Residential_Interior	250.00	50.00
tblAreaCoating	Area_Nonresidential_Interior	731498	0
tblAreaCoating	Area_Residential_Exterior	564975	0
tblAreaCoating	Area_Residential_Interior	1694925	0
tblAreaMitigation	UseLowVOCPaintNonresidentialExteriorValue	250	0

tblAreaMitigation	UseLowVOCPaintNonresidentialInteriorValue	250	0
tblAreaMitigation	UseLowVOCPaintResidentialExteriorValue	250	0
tblAreaMitigation	UseLowVOCPaintResidentialInteriorValue	250	0
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	6.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	7.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstructionPhase	NumDays	75.00	132.00
tblConstructionPhase	NumDays	1,110.00	261.00
tblConstructionPhase	NumDays	75.00	261.00
tblConstructionPhase	PhaseEndDate	7/5/2022	12/31/2021
tblConstructionPhase	PhaseEndDate	1/2/2023	12/31/2021
tblConstructionPhase	PhaseStartDate	1/1/2022	1/1/2021
tblConstructionPhase	PhaseStartDate	1/1/2022	1/1/2021

tblLandUse	LandUseSquareFeet	95,630.00	95,625.00
tblLandUse	LotAcreage	2.20	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	6.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	6.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblProjectCharacteristics	OperationalYear	2014	2021

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	10.5264	8.6672	13.4658	0.0297	1.1826	0.4204	1.6030	0.3172	0.3941	0.7113	0.0000	2,263.4358	2,263.4358	0.2978	0.0000	2,269.6888
Total	**10.5264**	**8.6672**	**13.4658**	**0.0297**	**1.1826**	**0.4204**	**1.6030**	**0.3172**	**0.3941**	**0.7113**	**0.0000**	**2,263.4358**	**2,263.4358**	**0.2978**	**0.0000**	**2,269.6888**

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	10.0462	7.4698	14.0700	0.0297	1.1826	0.3956	1.5782	0.3172	0.3924	0.7096	0.0000	2,263.4346	2,263.4346	0.2978	0.0000	2,269.6876
Total	**10.0462**	**7.4698**	**14.0700**	**0.0297**	**1.1826**	**0.3956**	**1.5782**	**0.3172**	**0.3924**	**0.7096**	**0.0000**	**2,263.4346**	**2,263.4346**	**0.2978**	**0.0000**	**2,269.6876**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**4.56**	**13.82**	**-4.49**	**0.00**	**0.00**	**5.90**	**1.55**	**0.00**	**0.44**	**0.24**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	58.0221	0.7844	70.9265	0.0256		9.1239	9.1239		9.1236	9.1236	864.5856	372.7483	1,237.3339	0.8077	0.0680	1,275.3777
Energy	0.0731	0.6305	0.3091	3.9900e-003		0.0505	0.0505		0.0505	0.0505	0.0000	2,377.3248	2,377.3248	0.0804	0.0270	2,387.3948
Mobile	3.1441	6.5241	32.2891	0.0939	6.4521	0.1046	6.5567	1.7256	0.0966	1.8221	0.0000	6,428.3973	6,428.3973	0.2413	0.0000	6,433.4643
Waste						0.0000	0.0000		0.0000	0.0000	102.3826	0.0000	102.3826	6.0506	0.0000	229.4459
Water						0.0000	0.0000		0.0000	0.0000	24.3170	489.9312	514.2482	2.5173	0.0631	586.6582
Total	**61.2393**	**7.9390**	**103.5247**	**0.1235**	**6.4521**	**9.2790**	**15.7311**	**1.7256**	**9.2707**	**10.9963**	**991.2851**	**9,668.4016**	**10,659.6867**	**9.6974**	**0.1581**	**10,912.3408**

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	58.0221	0.7844	70.9265	0.0256		9.1239	9.1239		9.1236	9.1236	864.5856	372.7483	1,237.3339	0.8077	0.0680	1,275.3777
Energy	0.0731	0.6305	0.3091	3.9900e-003		0.0505	0.0505		0.0505	0.0505	0.0000	2,377.3248	2,377.3248	0.0804	0.0270	2,387.3948
Mobile	3.1441	6.5241	32.2891	0.0939	6.4521	0.1046	6.5567	1.7256	0.0966	1.8221	0.0000	6,428.3973	6,428.3973	0.2413	0.0000	6,433.4643
Waste						0.0000	0.0000		0.0000	0.0000	102.3826	0.0000	102.3826	6.0506	0.0000	229.4459
Water						0.0000	0.0000		0.0000	0.0000	24.3170	489.9312	514.2482	2.5169	0.0630	586.6194
Total	**61.2393**	**7.9390**	**103.5247**	**0.1235**	**6.4521**	**9.2790**	**15.7311**	**1.7256**	**9.2707**	**10.9963**	**991.2851**	**9,668.4016**	**10,659.6867**	**9.6969**	**0.1580**	**10,912.3020**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.06**	**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	Building Construction	Building Construction	1/1/2021	12/31/2021	5	261	
2	Paving	Paving	1/1/2021	12/31/2021	5	261	
3	Architectural Coating	Architectural Coating	1/1/2021	12/31/2021	5	132	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

Residential Indoor: 1,694,925; Residential Outdoor: 564,975; Non-Residential Indoor: 731,498; Non-Residential Outdoor: 243,833

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor

Building Construction	Cranes	2	7.00	226	0.29
Building Construction	Forklifts	6	8.00	89	0.20
Building Construction	Generator Sets	2	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	6	7.00	97	0.37
Building Construction	Welders	2	8.00	46	0.45
Paving	Cement and Mortar Mixers	2	8.00	9	0.56
Paving	Pavers	2	8.00	125	0.42
Paving	Paving Equipment	2	8.00	130	0.36
Paving	Rollers	2	8.00	80	0.38
Paving	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Architectural Coating	Air Compressors	2	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
Building Construction	18	807.00	169.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	10	25.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	2	161.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

3.2 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	0.4941	4.5258	4.3163	7.0000e-003		0.2492	0.2492		0.2343	0.2343	0.0000	602.0677	602.0677	0.1451	0.0000	605.1137
Total	**0.4941**	**4.5258**	**4.3163**	**7.0000e-003**		**0.2492**	**0.2492**		**0.2343**	**0.2343**	**0.0000**	**602.0677**	**602.0677**	**0.1451**	**0.0000**	**605.1137**

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	0.1791	1.1051	2.4127	5.2000e-003	0.1434	0.0192	0.1626	0.0410	0.0177	0.0587	0.0000	440.7815	440.7815	3.2500e-003	0.0000	440.8498
Worker	0.2485	0.3207	3.0224	0.0104	0.8445	6.2300e-003	0.8508	0.2244	5.7800e-003	0.2302	0.0000	662.3355	662.3355	0.0308	0.0000	662.9822
Total	**0.4275**	**1.4258**	**5.4351**	**0.0156**	**0.9880**	**0.0254**	**1.0134**	**0.2655**	**0.0234**	**0.2889**	**0.0000**	**1,103.1170**	**1,103.1170**	**0.0340**	**0.0000**	**1,103.8320**

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	0.1851	3.7138	4.6426	7.0000e-003		0.2344	0.2344		0.2337	0.2337	0.0000	602.0670	602.0670	0.1451	0.0000	605.1130
Total	**0.1851**	**3.7138**	**4.6426**	**7.0000e-003**		**0.2344**	**0.2344**		**0.2337**	**0.2337**	**0.0000**	**602.0670**	**602.0670**	**0.1451**	**0.0000**	**605.1130**

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	0.1791	1.1051	2.4127	5.2000e-003	0.1434	0.0192	0.1626	0.0410	0.0177	0.0587	0.0000	440.7815	440.7815	3.2500e-003	0.0000	440.8498
Worker	0.2485	0.3207	3.0224	0.0104	0.8445	6.2300e-003	0.8508	0.2244	5.7800e-003	0.2302	0.0000	662.3355	662.3355	0.0308	0.0000	662.9822
Total	**0.4275**	**1.4258**	**5.4351**	**0.0156**	**0.9880**	**0.0254**	**1.0134**	**0.2655**	**0.0234**	**0.2889**	**0.0000**	**1,103.1170**	**1,103.1170**	**0.0340**	**0.0000**	**1,103.8320**

3.3 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	0.2248	2.2431	2.5434	3.9100e-003		0.1197	0.1197		0.1104	0.1104	0.0000	338.9539	338.9539	0.1070	0.0000	341.2008
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.2248**	**2.2431**	**2.5434**	**3.9100e-003**		**0.1197**	**0.1197**		**0.1104**	**0.1104**	**0.0000**	**338.9539**	**338.9539**	**0.1070**	**0.0000**	**341.2008**

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	7.7000e-003	9.9400e-003	0.0936	3.2000e-004	0.0262	1.9000e-004	0.0264	6.9500e-003	1.8000e-004	7.1300e-003	0.0000	20.5185	20.5185	9.5000e-004	0.0000	20.5385
Total	**7.7000e-003**	**9.9400e-003**	**0.0936**	**3.2000e-004**	**0.0262**	**1.9000e-004**	**0.0264**	**6.9500e-003**	**1.8000e-004**	**7.1300e-003**	**0.0000**	**20.5185**	**20.5185**	**9.5000e-004**	**0.0000**	**20.5385**

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	0.0953	1.9021	2.8176	3.9100e-003		0.1095	0.1095		0.1092	0.1092	0.0000	338.9535	338.9535	0.1070	0.0000	341.2004
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0953**	**1.9021**	**2.8176**	**3.9100e-003**		**0.1095**	**0.1095**		**0.1092**	**0.1092**	**0.0000**	**338.9535**	**338.9535**	**0.1070**	**0.0000**	**341.2004**

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	7.7000e-003	9.9400e-003	0.0936	3.2000e-004	0.0262	1.9000e-004	0.0264	6.9500e-003	1.8000e-004	7.1300e-003	0.0000	20.5185	20.5185	9.5000e-004	0.0000	20.5385
Total	**7.7000e-003**	**9.9400e-003**	**0.0936**	**3.2000e-004**	**0.0262**	**1.9000e-004**	**0.0264**	**6.9500e-003**	**1.8000e-004**	**7.1300e-003**	**0.0000**	**20.5185**	**20.5185**	**9.5000e-004**	**0.0000**	**20.5385**

3.4 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	9.2656					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0571	0.3985	0.4744	7.8000e-004		0.0246	0.0246		0.0246	0.0246	0.0000	66.6399	66.6399	4.5700e-003	0.0000	66.7360
Total	**9.3227**	**0.3985**	**0.4744**	**7.8000e-004**		**0.0246**	**0.0246**		**0.0246**	**0.0246**	**0.0000**	**66.6399**	**66.6399**	**4.5700e-003**	**0.0000**	**66.7360**

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	0.0496	0.0640	0.6030	2.0800e-003	0.1685	1.2400e-003	0.1697	0.0448	1.1500e-003	0.0459	0.0000	132.1388	132.1388	6.1400e-003	0.0000	132.2678
Total	**0.0496**	**0.0640**	**0.6030**	**2.0800e-003**	**0.1685**	**1.2400e-003**	**0.1697**	**0.0448**	**1.1500e-003**	**0.0459**	**0.0000**	**132.1388**	**132.1388**	**6.1400e-003**	**0.0000**	**132.2678**

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	9.2656					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0155	0.3542	0.4783	7.8000e-004		0.0248	0.0248		0.0248	0.0248	0.0000	66.6398	66.6398	4.5700e-003	0.0000	66.7359
Total	**9.2811**	**0.3542**	**0.4783**	**7.8000e-004**		**0.0248**	**0.0248**		**0.0248**	**0.0248**	**0.0000**	**66.6398**	**66.6398**	**4.5700e-003**	**0.0000**	**66.7359**

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	0.0496	0.0640	0.6030	2.0800e-003	0.1685	1.2400e-003	0.1697	0.0448	1.1500e-003	0.0459	0.0000	132.1388	132.1388	6.1400e-003	0.0000	132.2678
Total	**0.0496**	**0.0640**	**0.6030**	**2.0800e-003**	**0.1685**	**1.2400e-003**	**0.1697**	**0.0448**	**1.1500e-003**	**0.0459**	**0.0000**	**132.1388**	**132.1388**	**6.1400e-003**	**0.0000**	**132.2678**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	3.1441	6.5241	32.2891	0.0939	6.4521	0.1046	6.5567	1.7256	0.0966	1.8221	0.0000	6,428.3973	6,428.3973	0.2413	0.0000	6,433.4643
Unmitigated	3.1441	6.5241	32.2891	0.0939	6.4521	0.1046	6.5567	1.7256	0.0966	1.8221	0.0000	6,428.3973	6,428.3973	0.2413	0.0000	6,433.4643

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
City Park	14.31	14.31	14.31	30,550	30,550
Condo/Townhouse	5,515.83	5,992.92	5080.59	15,766,439	15,766,439
Industrial Park	665.58	238.12	69.81	1,361,797	1,361,797
Total	6,195.72	6,245.35	5,164.71	17,158,786	17,158,786

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
City Park	9.50	7.30	7.30	33.00	48.00	19.00	66	28	6
Condo/Townhouse	10.80	7.30	7.50	41.60	18.80	39.60	86	11	3
Industrial Park	9.50	7.30	7.30	59.00	28.00	13.00	79	19	2

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.512811	0.073496	0.191363	0.130940	0.036084	0.005147	0.012550	0.023118	0.001871	0.002053	0.006546	0.000576	0.003444

5.0 Energy Detail

4.4 Fleet Mix

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	1,654.0263	1,654.0263	0.0666	0.0138	1,659.6944
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	1,654.0263	1,654.0263	0.0666	0.0138	1,659.6944
NaturalGas Mitigated	0.0731	0.6305	0.3091	3.9900e-003		0.0505	0.0505		0.0505	0.0505	0.0000	723.2985	723.2985	0.0139	0.0133	727.7004
NaturalGas Unmitigated	0.0731	0.6305	0.3091	3.9900e-003		0.0505	0.0505		0.0505	0.0505	0.0000	723.2985	723.2985	0.0139	0.0133	727.7004

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					
Condo/Townhouse	1.15431e+007	0.0622	0.5319	0.2263	3.4000e-003		0.0430	0.0430		0.0430	0.0430	0.0000	615.9843	615.9843	0.0118	0.0113	619.7330
Industrial Park	2.01099e+006	0.0108	0.0986	0.0828	5.9000e-004		7.4900e-003	7.4900e-003		7.4900e-003	7.4900e-003	0.0000	107.3143	107.3143	2.0600e-003	1.9700e-003	107.9674
City Park	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		**0.0731**	**0.6305**	**0.3092**	**3.9900e-003**		**0.0505**	**0.0505**		**0.0505**	**0.0505**	**0.0000**	**723.2985**	**723.2985**	**0.0139**	**0.0133**	**727.7004**

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					
Industrial Park	2.01099e+006	0.0108	0.0986	0.0828	5.9000e-004		7.4900e-003	7.4900e-003		7.4900e-003	7.4900e-003	0.0000	107.3143	107.3143	2.0600e-003	1.9700e-003	107.9674
City Park	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
Condo/Townhouse	1.15431e+007	0.0622	0.5319	0.2263	3.4000e-003		0.0430	0.0430		0.0430	0.0430	0.0000	615.9843	615.9843	0.0118	0.0113	619.7330
Total		**0.0731**	**0.6305**	**0.3092**	**3.9900e-003**		**0.0505**	**0.0505**		**0.0505**	**0.0505**	**0.0000**	**723.2985**	**723.2985**	**0.0139**	**0.0133**	**727.7004**

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
City Park	0	0.0000	0.0000	0.0000	0.0000
Condo/Townhouse	3.62773e+006	1,185.5725	0.0477	9.8700e-003	1,189.6352
Industrial Park	1.43342e+006	468.4538	0.0189	3.9000e-003	470.0591
Total		**1,654.0263**	**0.0666**	**0.0138**	**1,659.6944**

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e

Land Use	kWh/yr	MT/yr			
City Park	0	0.0000	0.0000	0.0000	0.0000
Condo/Townhouse	3.62773e+006	1,185.5725	0.0477	9.8700e-003	1,189.6352
Industrial Park	1.43342e+006	468.4538	0.0189	3.9000e-003	470.0591
Total		**1,654.0263**	**0.0666**	**0.0138**	**1,659.6944**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	58.0221	0.7844	70.9265	0.0256		9.1239	9.1239		9.1236	9.1236	864.5856	372.7483	1,237.3339	0.8077	0.0680	1,275.3777
Unmitigated	58.0221	0.7844	70.9265	0.0256		9.1239	9.1239		9.1236	9.1236	864.5856	372.7483	1,237.3339	0.8077	0.0680	1,275.3777

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	0.1413					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

Consumer Products	5.1735					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	52.5186	0.7125	64.6972	0.0253		9.0896	9.0896		9.0893	9.0893	864.5856	362.5946	1,227.1802	0.7979	0.0680	1,265.0174
Landscaping	0.1888	0.0719	6.2293	3.3000e-004		0.0343	0.0343		0.0343	0.0343	0.0000	10.1537	10.1537	9.8400e-003	0.0000	10.3604
Total	**58.0221**	**0.7844**	**70.9265**	**0.0256**		**9.1239**	**9.1239**		**9.1236**	**9.1236**	**864.5856**	**372.7483**	**1,237.3339**	**0.8077**	**0.0680**	**1,275.3777**

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	0.1413					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	5.1735					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	52.5186	0.7125	64.6972	0.0253		9.0896	9.0896		9.0893	9.0893	864.5856	362.5946	1,227.1802	0.7979	0.0680	1,265.0174
Landscaping	0.1888	0.0719	6.2293	3.3000e-004		0.0343	0.0343		0.0343	0.0343	0.0000	10.1537	10.1537	9.8400e-003	0.0000	10.3604
Total	**58.0221**	**0.7844**	**70.9265**	**0.0256**		**9.1239**	**9.1239**		**9.1236**	**9.1236**	**864.5856**	**372.7483**	**1,237.3339**	**0.8077**	**0.0680**	**1,275.3777**

7.0 Water Detail

7.1 Mitigation Measures Water

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	514.2482	2.5169	0.0630	586.6194

Unmitigated	514.2482	2.5173	0.0631	586.6582

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
City Park	0 / 10.7233	38.9348	1.5700e-003	3.2000e-004	39.0682
Condo/Townhouse	54.5339 / 34.3801	374.1922	1.7914	0.0449	425.7392
Industrial Park	22.1144 / 0	101.1212	0.7244	0.0178	121.8509
Total		**514.2482**	**2.5173**	**0.0631**	**586.6582**

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
City Park	0 / 10.7233	38.9348	1.5700e-003	3.2000e-004	39.0682
Condo/Townhouse	54.5339 / 34.3801	374.1922	1.7910	0.0449	425.7116
Industrial Park	22.1144 / 0	101.1212	0.7243	0.0178	121.8397
Total		**514.2482**	**2.5169**	**0.0630**	**586.6194**

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	102.3826	6.0506	0.0000	229.4459
Unmitigated	102.3826	6.0506	0.0000	229.4459

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
City Park	0.77	0.1563	9.2400e-003	0.0000	0.3503
Condo/Townhouse	385.02	78.1556	4.6189	0.0000	175.1517
Industrial Park	118.58	24.0707	1.4225	0.0000	53.9439
Total		**102.3826**	**6.0506**	**0.0000**	**229.4459**

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
City Park	0.77	0.1563	9.2400e-003	0.0000	0.3503
Condo/Townhouse	385.02	78.1556	4.6189	0.0000	175.1517
Industrial Park	118.58	24.0707	1.4225	0.0000	53.9439
Total		**102.3826**	**6.0506**	**0.0000**	**229.4459**

9.0 Operational Offroad

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

10.0 Vegetation

East Otay Mesa Specific Plan Amendment Phase 4 Construction

San Diego Air Basin, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Industrial Park	95.63	1000sqft	4.00	95,625.00	0
City Park	9.00	Acre	9.00	392,040.00	0
Condo/Townhouse	837.00	Dwelling Unit	52.31	837,000.00	2394

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.6	**Precipitation Freq (Days)**	40
Climate Zone	13			**Operational Year**	2021
Utility Company	San Diego Gas & Electric				
CO2 Intensity (lb/MWhr)	720.49	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	250.00	100.00
tblArchitecturalCoating	EF_Nonresidential_Interior	250.00	50.00
tblArchitecturalCoating	EF_Residential_Exterior	250.00	100.00
tblArchitecturalCoating	EF_Residential_Interior	250.00	50.00
tblAreaCoating	Area_Nonresidential_Interior	731498	0
tblAreaCoating	Area_Residential_Exterior	564975	0
tblAreaCoating	Area_Residential_Interior	1694925	0
tblAreaMitigation	UseLowVOCPaintNonresidentialExteriorValue	250	0

tblAreaMitigation	UseLowVOCPaintNonresidentialInteriorValue	250	0
tblAreaMitigation	UseLowVOCPaintResidentialExteriorValue	250	0
tblAreaMitigation	UseLowVOCPaintResidentialInteriorValue	250	0
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	6.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	7.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstructionPhase	NumDays	75.00	132.00
tblConstructionPhase	NumDays	1,110.00	261.00
tblConstructionPhase	NumDays	75.00	261.00
tblConstructionPhase	PhaseEndDate	7/5/2022	12/31/2021
tblConstructionPhase	PhaseEndDate	1/2/2023	12/31/2021
tblConstructionPhase	PhaseStartDate	1/1/2022	1/1/2021
tblConstructionPhase	PhaseStartDate	1/1/2022	1/1/2021

tblLandUse	LandUseSquareFeet	95,630.00	95,625.00
tblLandUse	LotAcreage	2.20	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	6.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	6.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblProjectCharacteristics	OperationalYear	2014	2021

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	80.6296	65.8931	100.8535	0.2329	9.2787	3.2206	12.4993	2.4836	3.0194	5.5030	0.0000	19,507.0850	19,507.0850	2.5148	0.0000	19,559.8955
Total	**80.6296**	**65.8931**	**100.8535**	**0.2329**	**9.2787**	**3.2206**	**12.4993**	**2.4836**	**3.0194**	**5.5030**	**0.0000**	**19,507.0850**	**19,507.0850**	**2.5148**	**0.0000**	**19,559.8955**

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	76.9499	56.7178	105.4838	0.2329	9.2787	3.0307	12.3094	2.4836	3.0063	5.4899	0.0000	19,507.0850	19,507.0850	2.5148	0.0000	19,559.8955
Total	**76.9499**	**56.7178**	**105.4838**	**0.2329**	**9.2787**	**3.0307**	**12.3094**	**2.4836**	**3.0063**	**5.4899**	**0.0000**	**19,507.0850**	**19,507.0850**	**2.5148**	**0.0000**	**19,559.8955**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**4.56**	**13.92**	**-4.59**	**0.00**	**0.00**	**5.90**	**1.52**	**0.00**	**0.44**	**0.24**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	1,312.1603	18.1779	1,647.1956	0.6200		222.0783	222.0783		222.0718	222.0718	23,244.9386	9,872.9494	33,117.8881	21.5718	1.8284	34,137.6962
Energy	0.4005	3.4546	1.6939	0.0218		0.2767	0.2767		0.2767	0.2767		4,368.7680	4,368.7680	0.0837	0.0801	4,395.3556
Mobile	19.1351	37.2459	191.5842	0.5933	39.9616	0.6327	40.5943	10.6669	0.5840	11.2509		44,693.1722	44,693.1722	1.6100		44,726.9821
Total	**1,331.6958**	**58.8784**	**1,840.4736**	**1.2351**	**39.9616**	**222.9877**	**262.9493**	**10.6669**	**222.9325**	**233.5994**	**23,244.9386**	**58,934.8896**	**82,179.8282**	**23.2655**	**1.9085**	**83,260.0338**

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	1,312.1603	18.1779	1,647.1956	0.6200		222.0783	222.0783		222.0718	222.0718	23,244.9386	9,872.9494	33,117.8881	21.5718	1.8284	34,137.6962

Energy	0.4005	3.4546	1.6939	0.0218		0.2767	0.2767		0.2767	0.2767		4,368.7680	4,368.7680	0.0837	0.0801	4,395.3556
Mobile	19.1351	37.2459	191.5842	0.5933	39.9616	0.6327	40.5943	10.6669	0.5840	11.2509		44,693.1722	44,693.1722	1.6100		44,726.9821
Total	**1,331.6958**	**58.8784**	**1,840.4736**	**1.2351**	**39.9616**	**222.9877**	**262.9493**	**10.6669**	**222.9325**	**233.5994**	**23,244.9386**	**58,934.8896**	**82,179.8282**	**23.2655**	**1.9085**	**83,260.0338**

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

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Building Construction	Building Construction	1/1/2021	12/31/2021	5	261	
2	Paving	Paving	1/1/2021	12/31/2021	5	261	
3	Architectural Coating	Architectural Coating	1/1/2021	12/31/2021	5	132	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

Residential Indoor: 1,694,925; Residential Outdoor: 564,975; Non-Residential Indoor: 731,498; Non-Residential Outdoor: 243,833

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Building Construction	Cranes	2	7.00	226	0.29
Building Construction	Forklifts	6	8.00	89	0.20
Building Construction	Generator Sets	2	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	6	7.00	97	0.37
Building Construction	Welders	2	8.00	46	0.45
Paving	Cement and Mortar Mixers	2	8.00	9	0.56

Paving	Pavers	2	8.00	125	0.42
Paving	Paving Equipment	2	8.00	130	0.36
Paving	Rollers	2	8.00	80	0.38
Paving	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Architectural Coating	Air Compressors	2	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
Building Construction	18	807.00	169.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	10	25.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	2	161.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

3.2 Building Construction - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	3.7862	34.6805	33.0753	0.0536		1.9098	1.9098		1.7957	1.7957		5,085.5635	5,085.5635	1.2252		5,111.2923
Total	**3.7862**	**34.6805**	**33.0753**	**0.0536**		**1.9098**	**1.9098**		**1.7957**	**1.7957**		**5,085.5635**	**5,085.5635**	**1.2252**		**5,111.2923**

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	1.2724	8.2300	14.7292	0.0399	1.1215	0.1465	1.2680	0.3199	0.1348	0.4547		3,735.3864	3,735.3864	0.0271		3,735.9558
Worker	1.9585	2.2270	24.3189	0.0841	6.6293	0.0478	6.6771	1.7584	0.0443	1.8027		5,900.2454	5,900.2454	0.2601		5,905.7078
Total	**3.2309**	**10.4569**	**39.0481**	**0.1240**	**7.7508**	**0.1943**	**7.9451**	**2.0783**	**0.1791**	**2.2574**		**9,635.6318**	**9,635.6318**	**0.2872**		**9,641.6636**

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	1.4184	28.4585	35.5753	0.0536		1.7965	1.7965		1.7904	1.7904	0.0000	5,085.5635	5,085.5635	1.2252		5,111.2923
Total	**1.4184**	**28.4585**	**35.5753**	**0.0536**		**1.7965**	**1.7965**		**1.7904**	**1.7904**	**0.0000**	**5,085.5635**	**5,085.5635**	**1.2252**		**5,111.2923**

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	1.2724	8.2300	14.7292	0.0399	1.1215	0.1465	1.2680	0.3199	0.1348	0.4547		3,735.3864	3,735.3864	0.0271		3,735.9558
Worker	1.9585	2.2270	24.3189	0.0841	6.6293	0.0478	6.6771	1.7584	0.0443	1.8027		5,900.2454	5,900.2454	0.2601		5,905.7078
Total	**3.2309**	**10.4569**	**39.0481**	**0.1240**	**7.7508**	**0.1943**	**7.9451**	**2.0783**	**0.1791**	**2.2574**		**9,635.6318**	**9,635.6318**	**0.2872**		**9,641.6636**

3.3 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	1.7229	17.1887	19.4900	0.0300		0.9174	0.9174		0.8463	0.8463		2,863.0858	2,863.0858	0.9038		2,882.0654
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**1.7229**	**17.1887**	**19.4900**	**0.0300**		**0.9174**	**0.9174**		**0.8463**	**0.8463**		**2,863.0858**	**2,863.0858**	**0.9038**		**2,882.0654**

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	0.0607	0.0690	0.7534	2.6100e-003	0.2054	1.4800e-003	0.2069	0.0545	1.3700e-003	0.0559		182.7833	182.7833	8.0600e-003		182.9525

Total	**0.0607**	**0.0690**	**0.7534**	**2.6100e-003**	**0.2054**	**1.4800e-003**	**0.2069**	**0.0545**	**1.3700e-003**	**0.0559**		**182.7833**	**182.7833**	**8.0600e-003**		**182.9525**

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	0.7299	14.5752	21.5905	0.0300		0.8387	0.8387		0.8364	0.8364	0.0000	2,863.0858	2,863.0858	0.9038		2,882.0654
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**0.7299**	**14.5752**	**21.5905**	**0.0300**		**0.8387**	**0.8387**		**0.8364**	**0.8364**	**0.0000**	**2,863.0858**	**2,863.0858**	**0.9038**		**2,882.0654**

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	0.0607	0.0690	0.7534	2.6100e-003	0.2054	1.4800e-003	0.2069	0.0545	1.3700e-003	0.0559		182.7833	182.7833	8.0600e-003		182.9525
Total	**0.0607**	**0.0690**	**0.7534**	**2.6100e-003**	**0.2054**	**1.4800e-003**	**0.2069**	**0.0545**	**1.3700e-003**	**0.0559**		**182.7833**	**182.7833**	**8.0600e-003**		**182.9525**

3.4 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	71.0005					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.4378	3.0537	3.6351	5.9400e-003		0.1882	0.1882		0.1882	0.1882		562.8961	562.8961	0.0386		563.7073
Total	**71.4383**	**3.0537**	**3.6351**	**5.9400e-003**		**0.1882**	**0.1882**		**0.1882**	**0.1882**		**562.8961**	**562.8961**	**0.0386**		**563.7073**

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	0.3907	0.4443	4.8517	0.0168	1.3226	9.5300e-003	1.3321	0.3508	8.8400e-003	0.3597		1,177.1245	1,177.1245	0.0519		1,178.2143
Total	**0.3907**	**0.4443**	**4.8517**	**0.0168**	**1.3226**	**9.5300e-003**	**1.3321**	**0.3508**	**8.8400e-003**	**0.3597**		**1,177.1245**	**1,177.1245**	**0.0519**		**1,178.2143**

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	71.0005					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1189	2.7140	3.6648	5.9400e-003		0.1902	0.1902		0.1902	0.1902	0.0000	562.8961	562.8961	0.0386		563.7073
Total	**71.1193**	**2.7140**	**3.6648**	**5.9400e-003**		**0.1902**	**0.1902**		**0.1902**	**0.1902**	**0.0000**	**562.8961**	**562.8961**	**0.0386**		**563.7073**

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	0.3907	0.4443	4.8517	0.0168	1.3226	9.5300e-003	1.3321	0.3508	8.8400e-003	0.3597		1,177.1245	1,177.1245	0.0519		1,178.2143
Total	**0.3907**	**0.4443**	**4.8517**	**0.0168**	**1.3226**	**9.5300e-003**	**1.3321**	**0.3508**	**8.8400e-003**	**0.3597**		**1,177.1245**	**1,177.1245**	**0.0519**		**1,178.2143**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	19.1351	37.2459	191.5842	0.5933	39.9616	0.6327	40.5943	10.6669	0.5840	11.2509		44,693.1722	44,693.1722	1.6100		44,726.9821
Unmitigated	19.1351	37.2459	191.5842	0.5933	39.9616	0.6327	40.5943	10.6669	0.5840	11.2509		44,693.1722	44,693.1722	1.6100		44,726.9821

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
City Park	14.31	14.31	14.31	30,550	30,550
Condo/Townhouse	5,515.83	5,992.92	5080.59	15,766,439	15,766,439
Industrial Park	665.58	238.12	69.81	1,361,797	1,361,797
Total	6,195.72	6,245.35	5,164.71	17,158,786	17,158,786

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
City Park	9.50	7.30	7.30	33.00	48.00	19.00	66	28	6
Condo/Townhouse	10.80	7.30	7.50	41.60	18.80	39.60	86	11	3
Industrial Park	9.50	7.30	7.30	59.00	28.00	13.00	79	19	2

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.512811	0.073496	0.191363	0.130940	0.036084	0.005147	0.012550	0.023118	0.001871	0.002053	0.006546	0.000576	0.003444

5.0 Energy Detail

4.4 Fleet Mix

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	0.4005	3.4546	1.6939	0.0218		0.2767	0.2767		0.2767	0.2767		4,368.7680	4,368.7680	0.0837	0.0801	4,395.3556
NaturalGas Unmitigated	0.4005	3.4546	1.6939	0.0218		0.2767	0.2767		0.2767	0.2767		4,368.7680	4,368.7680	0.0837	0.0801	4,395.3556

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					
Condo/Townhouse	31625	0.3411	2.9145	1.2402	0.0186		0.2356	0.2356		0.2356	0.2356		3,720.5830	3,720.5830	0.0713	0.0682	3,743.2259
Industrial Park	5509.57	0.0594	0.5402	0.4537	3.2400e-003		0.0411	0.0411		0.0411	0.0411		648.1849	648.1849	0.0124	0.0119	652.1297
City Park	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		**0.4005**	**3.4546**	**1.6939**	**0.0218**		**0.2767**	**0.2767**		**0.2767**	**0.2767**		**4,368.7680**	**4,368.7680**	**0.0837**	**0.0801**	**4,395.3556**

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					
Condo/Townhouse	31.625	0.3411	2.9145	1.2402	0.0186		0.2356	0.2356		0.2356	0.2356		3,720.5830	3,720.5830	0.0713	0.0682	3,743.2259
Industrial Park	5.50957	0.0594	0.5402	0.4537	3.2400e-003		0.0411	0.0411		0.0411	0.0411		648.1849	648.1849	0.0124	0.0119	652.1297
City Park	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		**0.4005**	**3.4546**	**1.6939**	**0.0218**		**0.2767**	**0.2767**		**0.2767**	**0.2767**		**4,368.7680**	**4,368.7680**	**0.0837**	**0.0801**	**4,395.3556**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	1,312.1603	18.1779	1,647.1956	0.6200		222.0783	222.0783		222.0718	222.0718	23,244.9386	9,872.9494	33,117.8881	21.5718	1.8284	34,137.6962
Unmitigated	1,312.1603	18.1779	1,647.1956	0.6200		222.0783	222.0783		222.0718	222.0718	23,244.9386	9,872.9494	33,117.8881	21.5718	1.8284	34,137.6962

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	0.7741					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	28.3478					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	1,280.9406	17.3789	1,577.9812	0.6164		221.6968	221.6968		221.6903	221.6903	23,244.9386	9,748.5882	32,993.5269	21.4512	1.8284	34,010.8034
Landscaping	2.0978	0.7989	69.2143	3.6500e-003		0.3815	0.3815		0.3815	0.3815		124.3612	124.3612	0.1206		126.8928
Total	**1,312.1603**	**18.1779**	**1,647.1956**	**0.6200**		**222.0783**	**222.0783**		**222.0718**	**222.0718**	**23,244.9386**	**9,872.9494**	**33,117.8881**	**21.5718**	**1.8284**	**34,137.6962**

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	0.7741					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	28.3478					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	1,280.9406	17.3789	1,577.9812	0.6164		221.6968	221.6968		221.6903	221.6903	23,244.9386	9,748.5882	32,993.5269	21.4512	1.8284	34,010.8034
Landscaping	2.0978	0.7989	69.2143	3.6500e-003		0.3815	0.3815		0.3815	0.3815		124.3612	124.3612	0.1206		126.8928
Total	**1,312.1603**	**18.1779**	**1,647.1956**	**0.6200**		**222.0783**	**222.0783**		**222.0718**	**222.0718**	**23,244.9386**	**9,872.9494**	**33,117.8881**	**21.5718**	**1.8284**	**34,137.6962**

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 Vegetation

East Otay Mesa Specific Plan Amendment Phase 5 Construction

San Diego Air Basin, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Industrial Park	95.63	1000sqft	4.00	95,625.00	0
Condo/Townhouse	312.00	Dwelling Unit	19.50	312,000.00	892

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.6	**Precipitation Freq (Days)**	40
Climate Zone	13			**Operational Year**	2022
Utility Company	San Diego Gas & Electric				
CO2 Intensity (lb/MWhr)	720.49	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	250.00	100.00
tblArchitecturalCoating	EF_Nonresidential_Interior	250.00	50.00
tblArchitecturalCoating	EF_Residential_Exterior	250.00	100.00
tblArchitecturalCoating	EF_Residential_Interior	250.00	50.00
tblAreaCoating	Area_Nonresidential_Interior	143438	0
tblAreaCoating	Area_Residential_Exterior	210600	0
tblAreaCoating	Area_Residential_Interior	631800	0
tblAreaMitigation	UseLowVOCPaintNonresidentialExteriorValue	250	0
tblAreaMitigation	UseLowVOCPaintNonresidentialInteriorValue	250	0

tblAreaMitigation	UseLowVOCPaintResidentialExteriorValue	250	0
tblAreaMitigation	UseLowVOCPaintResidentialInteriorValue	250	0
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	6.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	7.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstructionPhase	NumDays	20.00	131.00
tblConstructionPhase	NumDays	370.00	260.00
tblConstructionPhase	NumDays	20.00	260.00
tblConstructionPhase	PhaseEndDate	7/3/2023	12/31/2022
tblConstructionPhase	PhaseEndDate	12/30/2022	12/31/2022
tblConstructionPhase	PhaseEndDate	12/29/2023	12/31/2022
tblConstructionPhase	PhaseStartDate	1/1/2023	1/1/2022
tblConstructionPhase	PhaseStartDate	1/1/2023	1/1/2022

tblLandUse	LandUseSquareFeet	95,630.00	95,625.00
tblLandUse	LotAcreage	2.20	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	6.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	6.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblProjectCharacteristics	OperationalYear	2014	2022

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					
2022	3.8151	6.7641	9.1125	0.0175	0.3990	0.3385	0.7375	0.1069	0.3178	0.4247	0.0000	1,407.1039	1,407.1039	0.2680	0.0000	1,412.7309
Total	**3.8151**	**6.7641**	**9.1125**	**0.0175**	**0.3990**	**0.3385**	**0.7375**	**0.1069**	**0.3178**	**0.4247**	**0.0000**	**1,407.1039**	**1,407.1039**	**0.2680**	**0.0000**	**1,412.7309**

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					

2022	3.4134	6.3289	9.7824	0.0175	0.3990	0.3728	0.7718	0.1069	0.3713	0.4781	0.0000	1,407.1027	1,407.1027	0.2680	0.0000	1,412.7297
Total	**3.4134**	**6.3289**	**9.7824**	**0.0175**	**0.3990**	**0.3728**	**0.7718**	**0.1069**	**0.3713**	**0.4781**	**0.0000**	**1,407.1027**	**1,407.1027**	**0.2680**	**0.0000**	**1,412.7297**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**10.53**	**6.43**	**-7.35**	**0.00**	**0.00**	**-10.12**	**-4.65**	**0.00**	**-16.81**	**-12.58**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	21.2666	0.2924	26.4365	9.5400e-003		3.4010	3.4010		3.4009	3.4009	322.2828	138.9466	461.2294	0.3011	0.0254	475.4103
Energy	0.0341	0.2968	0.1672	1.8600e-003		0.0235	0.0235		0.0235	0.0235	0.0000	1,247.3161	1,247.3161	0.0431	0.0138	1,252.4864
Mobile	1.2810	2.5421	12.9834	0.0396	2.7220	0.0439	2.7659	0.7280	0.0406	0.7685	0.0000	2,681.0792	2,681.0792	0.0977	0.0000	2,683.1299
Waste						0.0000	0.0000		0.0000	0.0000	53.2039	0.0000	53.2039	3.1443	0.0000	119.2334
Water						0.0000	0.0000		0.0000	0.0000	13.4651	227.1400	240.6050	1.3921	0.0346	280.5493
Total	**22.5817**	**3.1313**	**39.5871**	**0.0510**	**2.7220**	**3.4685**	**6.1905**	**0.7280**	**3.4650**	**4.1930**	**388.9518**	**4,294.4819**	**4,683.4337**	**4.9782**	**0.0737**	**4,810.8094**

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	21.2666	0.2924	26.4365	9.5400e-003		3.4010	3.4010		3.4009	3.4009	322.2828	138.9466	461.2294	0.3011	0.0254	475.4103
Energy	0.0341	0.2968	0.1672	1.8600e-003		0.0235	0.0235		0.0235	0.0235	0.0000	1,247.3161	1,247.3161	0.0431	0.0138	1,252.4864
Mobile	1.2810	2.5421	12.9834	0.0396	2.7220	0.0439	2.7659	0.7280	0.0406	0.7685	0.0000	2,681.0792	2,681.0792	0.0977	0.0000	2,683.1299
Waste						0.0000	0.0000		0.0000	0.0000	53.2039	0.0000	53.2039	3.1443	0.0000	119.2334
Water						0.0000	0.0000		0.0000	0.0000	13.4651	227.1400	240.6050	1.3919	0.0345	280.5278
Total	**22.5817**	**3.1313**	**39.5871**	**0.0510**	**2.7220**	**3.4685**	**6.1905**	**0.7280**	**3.4650**	**4.1930**	**388.9518**	**4,294.4819**	**4,683.4337**	**4.9780**	**0.0736**	**4,810.7879**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.01**	**0.08**	**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	Building Construction	Building Construction	1/1/2022	12/31/2022	5	260	
2	Paving	Paving	1/1/2022	12/31/2022	5	260	
3	Architectural Coating	Architectural Coating	1/1/2022	12/31/2022	5	131	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

Residential Indoor: 631,800; Residential Outdoor: 210,600; Non-Residential Indoor: 143,438; Non-Residential Outdoor: 47,813

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor

Building Construction	Cranes	2	7.00	226	0.29
Building Construction	Forklifts	6	8.00	89	0.20
Building Construction	Generator Sets	2	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	6	7.00	97	0.37
Building Construction	Welders	2	8.00	46	0.45
Paving	Cement and Mortar Mixers	2	8.00	9	0.56
Paving	Pavers	2	8.00	125	0.42
Paving	Paving Equipment	2	8.00	130	0.36
Paving	Rollers	2	8.00	80	0.38
Paving	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Architectural Coating	Air Compressors	2	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
Building Construction	18	265.00	49.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	10	25.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	2	53.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

3.2 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	0.4418	4.0395	4.2452	6.9700e-003		0.2095	0.2095		0.1971	0.1971	0.0000	599.9892	599.9892	0.1435	0.0000	603.0034
Total	**0.4418**	**4.0395**	**4.2452**	**6.9700e-003**		**0.2095**	**0.2095**		**0.1971**	**0.1971**	**0.0000**	**599.9892**	**599.9892**	**0.1435**	**0.0000**	**603.0034**

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	0.0497	0.2804	0.6695	1.5000e-003	0.0414	5.4500e-003	0.0469	0.0119	5.0200e-003	0.0169	0.0000	127.1793	127.1793	9.6000e-004	0.0000	127.1994
Worker	0.0774	0.0991	0.9330	3.4000e-003	0.2763	2.0500e-003	0.2783	0.0734	1.9000e-003	0.0753	0.0000	213.0542	213.0542	9.6600e-003	0.0000	213.2572
Total	**0.1271**	**0.3795**	**1.6025**	**4.9000e-003**	**0.3177**	**7.5000e-003**	**0.3252**	**0.0853**	**6.9200e-003**	**0.0922**	**0.0000**	**340.2335**	**340.2335**	**0.0106**	**0.0000**	**340.4566**

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	0.1824	3.6801	4.6228	6.9700e-003		0.2316	0.2316		0.2310	0.2310	0.0000	599.9885	599.9885	0.1435	0.0000	603.0027
Total	**0.1824**	**3.6801**	**4.6228**	**6.9700e-003**		**0.2316**	**0.2316**		**0.2310**	**0.2310**	**0.0000**	**599.9885**	**599.9885**	**0.1435**	**0.0000**	**603.0027**

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	0.0497	0.2804	0.6695	1.5000e-003	0.0414	5.4500e-003	0.0469	0.0119	5.0200e-003	0.0169	0.0000	127.1793	127.1793	9.6000e-004	0.0000	127.1994
Worker	0.0774	0.0991	0.9330	3.4000e-003	0.2763	2.0500e-003	0.2783	0.0734	1.9000e-003	0.0753	0.0000	213.0542	213.0542	9.6600e-003	0.0000	213.2572
Total	**0.1271**	**0.3795**	**1.6025**	**4.9000e-003**	**0.3177**	**7.5000e-003**	**0.3252**	**0.0853**	**6.9200e-003**	**0.0922**	**0.0000**	**340.2335**	**340.2335**	**0.0106**	**0.0000**	**340.4566**

3.3 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	0.1987	1.9498	2.5187	3.9000e-003		0.0997	0.0997		0.0920	0.0920	0.0000	337.7863	337.7863	0.1066	0.0000	340.0255
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.1987**	**1.9498**	**2.5187**	**3.9000e-003**		**0.0997**	**0.0997**		**0.0920**	**0.0920**	**0.0000**	**337.7863**	**337.7863**	**0.1066**	**0.0000**	**340.0255**

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	7.3100e-003	9.3500e-003	0.0880	3.2000e-004	0.0261	1.9000e-004	0.0263	6.9300e-003	1.8000e-004	7.1100e-003	0.0000	20.0995	20.0995	9.1000e-004	0.0000	20.1186
Total	**7.3100e-003**	**9.3500e-003**	**0.0880**	**3.2000e-004**	**0.0261**	**1.9000e-004**	**0.0263**	**6.9300e-003**	**1.8000e-004**	**7.1100e-003**	**0.0000**	**20.0995**	**20.0995**	**9.1000e-004**	**0.0000**	**20.1186**

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	0.0941	1.8873	2.8060	3.9000e-003		0.1083	0.1083		0.1081	0.1081	0.0000	337.7859	337.7859	0.1066	0.0000	340.0251
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0941**	**1.8873**	**2.8060**	**3.9000e-003**		**0.1083**	**0.1083**		**0.1081**	**0.1081**	**0.0000**	**337.7859**	**337.7859**	**0.1066**	**0.0000**	**340.0251**

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	7.3100e-003	9.3500e-003	0.0880	3.2000e-004	0.0261	1.9000e-004	0.0263	6.9300e-003	1.8000e-004	7.1100e-003	0.0000	20.0995	20.0995	9.1000e-004	0.0000	20.1186
Total	**7.3100e-003**	**9.3500e-003**	**0.0880**	**3.2000e-004**	**0.0261**	**1.9000e-004**	**0.0263**	**6.9300e-003**	**1.8000e-004**	**7.1100e-003**	**0.0000**	**20.0995**	**20.0995**	**9.1000e-004**	**0.0000**	**20.1186**

3.4 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	2.9715					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0532	0.3662	0.4715	7.7000e-004		0.0213	0.0213		0.0213	0.0213	0.0000	66.3846	66.3846	4.3200e-003	0.0000	66.4754
Total	**3.0247**	**0.3662**	**0.4715**	**7.7000e-004**		**0.0213**	**0.0213**		**0.0213**	**0.0213**	**0.0000**	**66.3846**	**66.3846**	**4.3200e-003**	**0.0000**	**66.4754**

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	0.0155	0.0198	0.1866	6.8000e-004	0.0553	4.1000e-004	0.0557	0.0147	3.8000e-004	0.0151	0.0000	42.6108	42.6108	1.9300e-003	0.0000	42.6514
Total	**0.0155**	**0.0198**	**0.1866**	**6.8000e-004**	**0.0553**	**4.1000e-004**	**0.0557**	**0.0147**	**3.8000e-004**	**0.0151**	**0.0000**	**42.6108**	**42.6108**	**1.9300e-003**	**0.0000**	**42.6514**

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	2.9715					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0155	0.3528	0.4764	7.7000e-004		0.0247	0.0247		0.0247	0.0247	0.0000	66.3845	66.3845	4.3200e-003	0.0000	66.4753
Total	**2.9870**	**0.3528**	**0.4764**	**7.7000e-004**		**0.0247**	**0.0247**		**0.0247**	**0.0247**	**0.0000**	**66.3845**	**66.3845**	**4.3200e-003**	**0.0000**	**66.4753**

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	0.0155	0.0198	0.1866	6.8000e-004	0.0553	4.1000e-004	0.0557	0.0147	3.8000e-004	0.0151	0.0000	42.6108	42.6108	1.9300e-003	0.0000	42.6514
Total	**0.0155**	**0.0198**	**0.1866**	**6.8000e-004**	**0.0553**	**4.1000e-004**	**0.0557**	**0.0147**	**3.8000e-004**	**0.0151**	**0.0000**	**42.6108**	**42.6108**	**1.9300e-003**	**0.0000**	**42.6514**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	1.2810	2.5421	12.9834	0.0396	2.7220	0.0439	2.7659	0.7280	0.0406	0.7685	0.0000	2,681.0792	2,681.0792	0.0977	0.0000	2,683.1299
Unmitigated	1.2810	2.5421	12.9834	0.0396	2.7220	0.0439	2.7659	0.7280	0.0406	0.7685	0.0000	2,681.0792	2,681.0792	0.0977	0.0000	2,683.1299

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Condo/Townhouse	2,056.08	2,233.92	1893.84	5,877,095	5,877,095
Industrial Park	665.58	238.12	69.81	1,361,797	1,361,797
Total	2,721.66	2,472.04	1,963.65	7,238,893	7,238,893

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Condo/Townhouse	10.80	7.30	7.50	41.60	18.80	39.60	86	11	3
Industrial Park	9.50	7.30	7.30	59.00	28.00	13.00	79	19	2

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.512460	0.073465	0.191476	0.131038	0.036090	0.005150	0.012567	0.023297	0.001873	0.002046	0.006532	0.000565	0.003442

5.0 Energy Detail

4.4 Fleet Mix

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	910.3876	910.3876	0.0366	7.5800e-003	913.5074
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	910.3876	910.3876	0.0366	7.5800e-003	913.5074
NaturalGas Mitigated	0.0341	0.2968	0.1672	1.8600e-003		0.0235	0.0235		0.0235	0.0235	0.0000	336.9285	336.9285	6.4600e-003	6.1800e-003	338.9790
NaturalGas Unmitigated	0.0341	0.2968	0.1672	1.8600e-003		0.0235	0.0235		0.0235	0.0235	0.0000	336.9285	336.9285	6.4600e-003	6.1800e-003	338.9790

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					
Industrial Park	2.01099e+006	0.0108	0.0986	0.0828	5.9000e-004		7.4900e-003	7.4900e-003		7.4900e-003	7.4900e-003	0.0000	107.3143	107.3143	2.0600e-003	1.9700e-003	107.9674
Condo/Townhouse	4.30281e+006	0.0232	0.1983	0.0844	1.2700e-003		0.0160	0.0160		0.0160	0.0160	0.0000	229.6142	229.6142	4.4000e-003	4.2100e-003	231.0116
Total		**0.0340**	**0.2969**	**0.1672**	**1.8600e-003**		**0.0235**	**0.0235**		**0.0235**	**0.0235**	**0.0000**	**336.9285**	**336.9285**	**6.4600e-003**	**6.1800e-003**	**338.9790**

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					
Industrial Park	2.01099e+006	0.0108	0.0986	0.0828	5.9000e-004		7.4900e-003	7.4900e-003		7.4900e-003	7.4900e-003	0.0000	107.3143	107.3143	2.0600e-003	1.9700e-003	107.9674
Condo/Townhouse	4.30281e+006	0.0232	0.1983	0.0844	1.2700e-003		0.0160	0.0160		0.0160	0.0160	0.0000	229.6142	229.6142	4.4000e-003	4.2100e-003	231.0116
Total		**0.0340**	**0.2969**	**0.1672**	**1.8600e-003**		**0.0235**	**0.0235**		**0.0235**	**0.0235**	**0.0000**	**336.9285**	**336.9285**	**6.4600e-003**	**6.1800e-003**	**338.9790**

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Condo/Townhouse	1.35227e+006	441.9338	0.0178	3.6800e-003	443.4483
Industrial Park	1.43342e+006	468.4538	0.0189	3.9000e-003	470.0591
Total		**910.3876**	**0.0367**	**7.5800e-003**	**913.5074**

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Condo/Townhouse	1.35227e+006	441.9338	0.0178	3.6800e-003	443.4483
Industrial Park	1.43342e+006	468.4538	0.0189	3.9000e-003	470.0591
Total		**910.3876**	**0.0367**	**7.5800e-003**	**913.5074**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	21.2666	0.2924	26.4365	9.5400e-003		3.4010	3.4010		3.4009	3.4009	322.2828	138.9466	461.2294	0.3011	0.0254	475.4103
Unmitigated	21.2666	0.2924	26.4365	9.5400e-003		3.4010	3.4010		3.4009	3.4009	322.2828	138.9466	461.2294	0.3011	0.0254	475.4103

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	0.0277					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	1.5920					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	19.5768	0.2656	24.1165	9.4200e-003		3.3882	3.3882		3.3881	3.3881	322.2828	135.1607	457.4435	0.2974	0.0254	471.5477
Landscaping	0.0701	0.0268	2.3200	1.2000e-004		0.0128	0.0128		0.0128	0.0128	0.0000	3.7859	3.7859	3.6600e-003	0.0000	3.8627
Total	**21.2666**	**0.2924**	**26.4365**	**9.5400e-003**		**3.4011**	**3.4011**		**3.4010**	**3.4010**	**322.2828**	**138.9466**	**461.2294**	**0.3011**	**0.0254**	**475.4104**

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	0.0277					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	1.5920					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	19.5768	0.2656	24.1165	9.4200e-003		3.3882	3.3882		3.3881	3.3881	322.2828	135.1607	457.4435	0.2974	0.0254	471.5477
Landscaping	0.0701	0.0268	2.3200	1.2000e-004		0.0128	0.0128		0.0128	0.0128	0.0000	3.7859	3.7859	3.6600e-003	0.0000	3.8627
Total	**21.2666**	**0.2924**	**26.4365**	**9.5400e-003**		**3.4011**	**3.4011**		**3.4010**	**3.4010**	**322.2828**	**138.9466**	**461.2294**	**0.3011**	**0.0254**	**475.4104**

7.0 Water Detail

7.1 Mitigation Measures Water

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	240.6050	1.3919	0.0345	280.5278
Unmitigated	240.6050	1.3921	0.0346	280.5493

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Condo/Townhouse	20.3281 / 12.8155	139.4838	0.6677	0.0168	158.6985
Industrial Park	22.1144 / 0	101.1212	0.7244	0.0178	121.8509
Total		**240.6050**	**1.3921**	**0.0346**	**280.5493**

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Condo/Townhouse	20.3281 / 12.8155	139.4838	0.6676	0.0167	158.6882
Industrial Park	22.1144 / 0	101.1212	0.7243	0.0178	121.8397
Total		**240.6050**	**1.3919**	**0.0345**	**280.5278**

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			

Mitigated	53.2039	3.1443	0.0000	119.2334
Unmitigated	53.2039	3.1443	0.0000	119.2334

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Condo/Townhouse	143.52	29.1333	1.7217	0.0000	65.2895
Industrial Park	118.58	24.0707	1.4225	0.0000	53.9439
Total		**53.2039**	**3.1443**	**0.0000**	**119.2334**

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Condo/Townhouse	143.52	29.1333	1.7217	0.0000	65.2895
Industrial Park	118.58	24.0707	1.4225	0.0000	53.9439
Total		**53.2039**	**3.1443**	**0.0000**	**119.2334**

9.0 Operational Offroad

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

10.0 Vegetation

East Otay Mesa Specific Plan Amendment Phase 5 Construction

San Diego Air Basin, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Industrial Park	95.63	1000sqft	4.00	95,625.00	0
Condo/Townhouse	312.00	Dwelling Unit	19.50	312,000.00	892

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.6	**Precipitation Freq (Days)**	40
Climate Zone	13			**Operational Year**	2022
Utility Company	San Diego Gas & Electric				
CO2 Intensity (lb/MWhr)	720.49	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	250.00	100.00
tblArchitecturalCoating	EF_Nonresidential_Interior	250.00	50.00
tblArchitecturalCoating	EF_Residential_Exterior	250.00	100.00
tblArchitecturalCoating	EF_Residential_Interior	250.00	50.00
tblAreaCoating	Area_Nonresidential_Interior	143438	0
tblAreaCoating	Area_Residential_Exterior	210600	0
tblAreaCoating	Area_Residential_Interior	631800	0
tblAreaMitigation	UseLowVOCPaintNonresidentialExteriorValue	250	0
tblAreaMitigation	UseLowVOCPaintNonresidentialInteriorValue	250	0

tblAreaMitigation	UseLowVOCPaintResidentialExteriorValue	250	0
tblAreaMitigation	UseLowVOCPaintResidentialInteriorValue	250	0
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	6.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	7.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstructionPhase	NumDays	20.00	131.00
tblConstructionPhase	NumDays	370.00	260.00
tblConstructionPhase	NumDays	20.00	260.00
tblConstructionPhase	PhaseEndDate	7/3/2023	12/31/2022
tblConstructionPhase	PhaseEndDate	12/30/2022	12/31/2022
tblConstructionPhase	PhaseEndDate	12/29/2023	12/31/2022
tblConstructionPhase	PhaseStartDate	1/1/2023	1/1/2022
tblConstructionPhase	PhaseStartDate	1/1/2023	1/1/2022

tblLandUse	LandUseSquareFeet	95,630.00	95,625.00
tblLandUse	LotAcreage	2.20	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	6.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	6.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblProjectCharacteristics	OperationalYear	2014	2022

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					
2022	29.3429	51.8791	69.5439	0.1369	3.1428	2.6036	5.7465	0.8401	2.4446	3.2847	0.0000	12,062.6967	12,062.6967	2.2719	0.0000	12,110.4072
Total	**29.3429**	**51.8791**	**69.5439**	**0.1369**	**3.1428**	**2.6036**	**5.7465**	**0.8401**	**2.4446**	**3.2847**	**0.0000**	**12,062.6967**	**12,062.6967**	**2.2719**	**0.0000**	**12,110.4072**

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					

2022	26.2529	48.5310	74.6969	0.1369	3.1428	2.8672	6.0101	0.8401	2.8556	3.6957	0.0000	12,062.6967	12,062.6967	2.2719	0.0000	12,110.4072
Total	**26.2529**	**48.5310**	**74.6969**	**0.1369**	**3.1428**	**2.8672**	**6.0101**	**0.8401**	**2.8556**	**3.6957**	**0.0000**	**12,062.6967**	**12,062.6967**	**2.2719**	**0.0000**	**12,110.4072**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**10.53**	**6.45**	**-7.41**	**0.00**	**0.00**	**-10.12**	**-4.59**	**0.00**	**-16.81**	**-12.51**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	487.1374	6.7754	613.9859	0.2311		82.7821	82.7821		82.7797	82.7797	8,664.7800	3,680.2516	12,345.0316	8.0409	0.6816	12,725.1716
Energy	0.1866	1.6266	0.9160	0.0102		0.1289	0.1289		0.1289	0.1289		2,035.0689	2,035.0689	0.0390	0.0373	2,047.4540
Mobile	7.9618	14.7914	78.5700	0.2553	17.1878	0.2709	17.4587	4.5879	0.2500	4.8379		19,001.9276	19,001.9276	0.6644		19,015.8794
Total	**495.2858**	**23.1933**	**693.4720**	**0.4966**	**17.1878**	**83.1818**	**100.3696**	**4.5879**	**83.1586**	**87.7465**	**8,664.7800**	**24,717.2482**	**33,382.0282**	**8.7443**	**0.7189**	**33,788.5050**

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	487.1374	6.7754	613.9859	0.2311		82.7821	82.7821		82.7797	82.7797	8,664.7800	3,680.2516	12,345.0316	8.0409	0.6816	12,725.1716

Energy	0.1866	1.6266	0.9160	0.0102		0.1289	0.1289		0.1289	0.1289		2,035.0689	2,035.0689	0.0390	0.0373	2,047.4540
Mobile	7.9618	14.7914	78.5700	0.2553	17.1878	0.2709	17.4587	4.5879	0.2500	4.8379		19,001.9276	19,001.9276	0.6644		19,015.8794
Total	**495.2858**	**23.1933**	**693.4720**	**0.4966**	**17.1878**	**83.1818**	**100.3696**	**4.5879**	**83.1586**	**87.7465**	**8,664.7800**	**24,717.2482**	**33,382.0282**	**8.7443**	**0.7189**	**33,788.5050**

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

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Building Construction	Building Construction	1/1/2022	12/31/2022	5	260	
2	Paving	Paving	1/1/2022	12/31/2022	5	260	
3	Architectural Coating	Architectural Coating	1/1/2022	12/31/2022	5	131	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

Residential Indoor: 631,800; Residential Outdoor: 210,600; Non-Residential Indoor: 143,438; Non-Residential Outdoor: 47,813

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Building Construction	Cranes	2	7.00	226	0.29
Building Construction	Forklifts	6	8.00	89	0.20
Building Construction	Generator Sets	2	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	6	7.00	97	0.37
Building Construction	Welders	2	8.00	46	0.45
Paving	Cement and Mortar Mixers	2	8.00	9	0.56

Paving	Pavers	2	8.00	125	0.42
Paving	Paving Equipment	2	8.00	130	0.36
Paving	Rollers	2	8.00	80	0.38
Paving	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Architectural Coating	Air Compressors	2	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
Building Construction	18	265.00	49.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	10	25.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	2	53.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

3.2 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	3.3984	31.0728	32.6551	0.0537		1.6115	1.6115		1.5163	1.5163		5,087.4994	5,087.4994	1.2170		5,113.0573
Total	**3.3984**	**31.0728**	**32.6551**	**0.0537**		**1.6115**	**1.6115**		**1.5163**	**1.5163**		**5,087.4994**	**5,087.4994**	**1.2170**		**5,113.0573**

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	0.3560	2.0965	4.1185	0.0116	0.3252	0.0418	0.3670	0.0928	0.0385	0.1312		1,081.9226	1,081.9226	8.0200e-003		1,082.0911
Worker	0.6129	0.6910	7.5473	0.0276	2.1769	0.0158	2.1927	0.5774	0.0147	0.5921		1,905.3587	1,905.3587	0.0819		1,907.0795
Total	**0.9690**	**2.7875**	**11.6658**	**0.0392**	**2.5021**	**0.0576**	**2.5597**	**0.6702**	**0.0531**	**0.7233**		**2,987.2813**	**2,987.2813**	**0.0900**		**2,989.1706**

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	1.4030	28.3082	35.5601	0.0537		1.7817	1.7817		1.7768	1.7768	0.0000	5,087.4993	5,087.4993	1.2170		5,113.0573
Total	**1.4030**	**28.3082**	**35.5601**	**0.0537**		**1.7817**	**1.7817**		**1.7768**	**1.7768**	**0.0000**	**5,087.4993**	**5,087.4993**	**1.2170**		**5,113.0573**

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	0.3560	2.0965	4.1185	0.0116	0.3252	0.0418	0.3670	0.0928	0.0385	0.1312		1,081.9226	1,081.9226	8.0200e-003		1,082.0911
Worker	0.6129	0.6910	7.5473	0.0276	2.1769	0.0158	2.1927	0.5774	0.0147	0.5921		1,905.3587	1,905.3587	0.0819		1,907.0795
Total	**0.9690**	**2.7875**	**11.6658**	**0.0392**	**2.5021**	**0.0576**	**2.5597**	**0.6702**	**0.0531**	**0.7233**		**2,987.2813**	**2,987.2813**	**0.0900**		**2,989.1706**

3.3 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	1.5284	14.9984	19.3743	0.0300		0.7665	0.7665		0.7075	0.7075		2,864.1974	2,864.1974	0.9042		2,883.1846
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**1.5284**	**14.9984**	**19.3743**	**0.0300**		**0.7665**	**0.7665**		**0.7075**	**0.7075**		**2,864.1974**	**2,864.1974**	**0.9042**		**2,883.1846**

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	0.0578	0.0652	0.7120	2.6100e-003	0.2054	1.4900e-003	0.2069	0.0545	1.3800e-003	0.0559		179.7508	179.7508	7.7300e-003		179.9132

Total	**0.0578**	**0.0652**	**0.7120**	**2.6100e-003**	**0.2054**	**1.4900e-003**	**0.2069**	**0.0545**	**1.3800e-003**	**0.0559**		**179.7508**	**179.7508**	**7.7300e-003**		**179.9132**

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	0.7240	14.5180	21.5847	0.0300		0.8331	0.8331		0.8312	0.8312	0.0000	2,864.1974	2,864.1974	0.9042		2,883.1846
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**0.7240**	**14.5180**	**21.5847**	**0.0300**		**0.8331**	**0.8331**		**0.8312**	**0.8312**	**0.0000**	**2,864.1974**	**2,864.1974**	**0.9042**		**2,883.1846**

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	0.0578	0.0652	0.7120	2.6100e-003	0.2054	1.4900e-003	0.2069	0.0545	1.3800e-003	0.0559		179.7508	179.7508	7.7300e-003		179.9132
Total	**0.0578**	**0.0652**	**0.7120**	**2.6100e-003**	**0.2054**	**1.4900e-003**	**0.2069**	**0.0545**	**1.3800e-003**	**0.0559**		**179.7508**	**179.7508**	**7.7300e-003**		**179.9132**

3.4 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	22.8577					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.4091	2.8170	3.6272	5.9400e-003		0.1634	0.1634		0.1634	0.1634		562.8961	562.8961	0.0367		563.6657
Total	**23.2668**	**2.8170**	**3.6272**	**5.9400e-003**		**0.1634**	**0.1634**		**0.1634**	**0.1634**		**562.8961**	**562.8961**	**0.0367**		**563.6657**

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	0.1226	0.1382	1.5095	5.5200e-003	0.4354	3.1600e-003	0.4385	0.1155	2.9300e-003	0.1184		381.0717	381.0717	0.0164		381.4159
Total	**0.1226**	**0.1382**	**1.5095**	**5.5200e-003**	**0.4354**	**3.1600e-003**	**0.4385**	**0.1155**	**2.9300e-003**	**0.1184**		**381.0717**	**381.0717**	**0.0164**		**381.4159**

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	22.8577					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1189	2.7140	3.6648	5.9400e-003		0.1902	0.1902		0.1902	0.1902	0.0000	562.8961	562.8961	0.0367		563.6657
Total	**22.9766**	**2.7140**	**3.6648**	**5.9400e-003**		**0.1902**	**0.1902**		**0.1902**	**0.1902**	**0.0000**	**562.8961**	**562.8961**	**0.0367**		**563.6657**

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	0.1226	0.1382	1.5095	5.5200e-003	0.4354	3.1600e-003	0.4385	0.1155	2.9300e-003	0.1184		381.0717	381.0717	0.0164		381.4159
Total	**0.1226**	**0.1382**	**1.5095**	**5.5200e-003**	**0.4354**	**3.1600e-003**	**0.4385**	**0.1155**	**2.9300e-003**	**0.1184**		**381.0717**	**381.0717**	**0.0164**		**381.4159**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	7.9618	14.7914	78.5700	0.2553	17.1878	0.2709	17.4587	4.5879	0.2500	4.8379		19,001.9276	19,001.9276	0.6644		19,015.8794
Unmitigated	7.9618	14.7914	78.5700	0.2553	17.1878	0.2709	17.4587	4.5879	0.2500	4.8379		19,001.9276	19,001.9276	0.6644		19,015.8794

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Condo/Townhouse	2,056.08	2,233.92	1893.84	5,877,095	5,877,095
Industrial Park	665.58	238.12	69.81	1,361,797	1,361,797
Total	2,721.66	2,472.04	1,963.65	7,238,893	7,238,893

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Condo/Townhouse	10.80	7.30	7.50	41.60	18.80	39.60	86	11	3
Industrial Park	9.50	7.30	7.30	59.00	28.00	13.00	79	19	2

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.512460	0.073465	0.191476	0.131038	0.036090	0.005150	0.012567	0.023297	0.001873	0.002046	0.006532	0.000565	0.003442

5.0 Energy Detail

4.4 Fleet Mix

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	0.1866	1.6266	0.9160	0.0102		0.1289	0.1289		0.1289	0.1289		2,035.0689	2,035.0689	0.0390	0.0373	2,047.4540
NaturalGas Unmitigated	0.1866	1.6266	0.9160	0.0102		0.1289	0.1289		0.1289	0.1289		2,035.0689	2,035.0689	0.0390	0.0373	2,047.4540

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					
Industrial Park	5509.57	0.0594	0.5402	0.4537	3.2400e-003		0.0411	0.0411		0.0411	0.0411		648.1849	648.1849	0.0124	0.0119	652.1297
Condo/Townhouse	11788.5	0.1271	1.0864	0.4623	6.9300e-003		0.0878	0.0878		0.0878	0.0878		1,386.8840	1,386.8840	0.0266	0.0254	1,395.3243
Total		**0.1866**	**1.6265**	**0.9160**	**0.0102**		**0.1289**	**0.1289**		**0.1289**	**0.1289**		**2,035.0689**	**2,035.0689**	**0.0390**	**0.0373**	**2,047.4540**

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					
Industrial Park	5.50957	0.0594	0.5402	0.4537	3.2400e-003		0.0411	0.0411		0.0411	0.0411		648.1849	648.1849	0.0124	0.0119	652.1297
Condo/Townhouse	11.7885	0.1271	1.0864	0.4623	6.9300e-003		0.0878	0.0878		0.0878	0.0878		1,386.8840	1,386.8840	0.0266	0.0254	1,395.3243
Total		**0.1866**	**1.6265**	**0.9160**	**0.0102**		**0.1289**	**0.1289**		**0.1289**	**0.1289**		**2,035.0689**	**2,035.0689**	**0.0390**	**0.0373**	**2,047.4540**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	487.1374	6.7754	613.9859	0.2311		82.7821	82.7821		82.7797	82.7797	8,664.7800	3,680.2516	12,345.0316	8.0409	0.6816	12,725.1716
Unmitigated	487.1374	6.7754	613.9859	0.2311		82.7821	82.7821		82.7797	82.7797	8,664.7800	3,680.2516	12,345.0316	8.0409	0.6816	12,725.1716

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	0.1518					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	8.7232					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	477.4832	6.4782	588.2081	0.2298		82.6397	82.6397		82.6372	82.6372	8,664.7800	3,633.8824	12,298.6623	7.9962	0.6816	12,677.8622
Landscaping	0.7792	0.2973	25.7779	1.3600e-003		0.1424	0.1424		0.1424	0.1424		46.3693	46.3693	0.0448		47.3094
Total	**487.1374**	**6.7754**	**613.9860**	**0.2311**		**82.7821**	**82.7821**		**82.7797**	**82.7797**	**8,664.7800**	**3,680.2516**	**12,345.0316**	**8.0409**	**0.6816**	**12,725.1716**

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	0.1518					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	8.7232					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	477.4832	6.4782	588.2081	0.2298		82.6397	82.6397		82.6372	82.6372	8,664.7800	3,633.8824	12,298.6623	7.9962	0.6816	12,677.8622
Landscaping	0.7792	0.2973	25.7779	1.3600e-003		0.1424	0.1424		0.1424	0.1424		46.3693	46.3693	0.0448		47.3094
Total	**487.1374**	**6.7754**	**613.9860**	**0.2311**		**82.7821**	**82.7821**		**82.7797**	**82.7797**	**8,664.7800**	**3,680.2516**	**12,345.0316**	**8.0409**	**0.6816**	**12,725.1716**

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 Vegetation

East Otay Mesa Specific Plan Amendment Phase 6 Construction

San Diego Air Basin, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Industrial Park	95.63	1000sqft	2.20	95,625.00	0
Condo/Townhouse	100.00	Dwelling Unit	6.25	100,000.00	286
Strip Mall	78.00	1000sqft	1.79	78,000.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.6	**Precipitation Freq (Days)**	40
Climate Zone	13			**Operational Year**	2023
Utility Company	San Diego Gas & Electric				
CO2 Intensity (lb/MWhr)	720.49	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	250.00	100.00
tblArchitecturalCoating	EF_Nonresidential_Interior	250.00	50.00
tblArchitecturalCoating	EF_Residential_Exterior	250.00	100.00
tblArchitecturalCoating	EF_Residential_Interior	250.00	50.00
tblAreaCoating	Area_Nonresidential_Interior	260438	0
tblAreaCoating	Area_Residential_Exterior	67500	0
tblAreaCoating	Area_Residential_Interior	202500	0
tblAreaMitigation	UseLowVOCPaintNonresidentialExterior Value	250	0

tblAreaMitigation	UseLowVOCPaintNonresidentialInteriorValue	250	0
tblAreaMitigation	UseLowVOCPaintResidentialExteriorValue	250	0
tblAreaMitigation	UseLowVOCPaintResidentialInteriorValue	250	0
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	6.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	8.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstructionPhase	NumDays	20.00	130.00
tblConstructionPhase	NumDays	300.00	260.00
tblConstructionPhase	NumDays	20.00	260.00
tblConstructionPhase	PhaseEndDate	6/28/2024	12/31/2023
tblConstructionPhase	PhaseEndDate	12/29/2023	12/31/2023
tblConstructionPhase	PhaseEndDate	12/27/2024	12/31/2023
tblConstructionPhase	PhaseStartDate	1/1/2024	1/1/2023

tblConstructionPhase	PhaseStartDate	1/1/2024	1/1/2023
tblLandUse	LandUseSquareFeet	95,630.00	95,625.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	6.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	6.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblProjectCharacteristics	OperationalYear	2014	2023

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					
2023	2.5212	6.1161	8.3435	0.0153	0.2300	0.2938	0.5238	0.0618	0.2759	0.3377	0.0000	1,255.0915	1,255.0915	0.2606	0.0000	1,260.5630
Total	**2.5212**	**6.1161**	**8.3435**	**0.0153**	**0.2300**	**0.2938**	**0.5238**	**0.0618**	**0.2759**	**0.3377**	**0.0000**	**1,255.0915**	**1,255.0915**	**0.2606**	**0.0000**	**1,260.5630**

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					

2023	2.1590	6.1887	9.0589	0.0153	0.2300	0.3742	0.6042	0.0618	0.3738	0.4356	0.0000	1,255.0903	1,255.0903	0.2606	0.0000	1,260.5618
Total	**2.1590**	**6.1887**	**9.0589**	**0.0153**	**0.2300**	**0.3742**	**0.6042**	**0.0618**	**0.3738**	**0.4356**	**0.0000**	**1,255.0903**	**1,255.0903**	**0.2606**	**0.0000**	**1,260.5618**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**14.37**	**-1.19**	**-8.57**	**0.00**	**0.00**	**-27.35**	**-15.34**	**0.00**	**-35.45**	**-28.97**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	7.4161	0.0937	8.4739	3.0600e-003		1.0901	1.0901		1.0901	1.0901	103.2958	44.5367	147.8325	0.0965	8.1200e-003	152.3777
Energy	0.0192	0.1709	0.1172	1.0500e-003		0.0133	0.0133		0.0133	0.0133	0.0000	1,158.4345	1,158.4345	0.0426	0.0116	1,162.9107
Mobile	1.8400	2.8754	16.1225	0.0451	3.0534	0.0513	3.1046	0.8166	0.0473	0.8639	0.0000	3,018.3740	3,018.3740	0.1102	0.0000	3,020.6880
Waste						0.0000	0.0000		0.0000	0.0000	50.0332	0.0000	50.0332	2.9569	0.0000	112.1277
Water						0.0000	0.0000		0.0000	0.0000	10.9159	174.1881	185.1040	1.1282	0.0279	217.4521
Total	**9.2753**	**3.1400**	**24.7137**	**0.0492**	**3.0534**	**1.1547**	**4.2080**	**0.8166**	**1.1507**	**1.9673**	**164.2449**	**4,395.5333**	**4,559.7782**	**4.3344**	**0.0476**	**4,665.5562**

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	7.4161	0.0937	8.4739	3.0600e-003		1.0901	1.0901		1.0901	1.0901	103.2958	44.5367	147.8325	0.0965	8.1200e-003	152.3777
Energy	0.0192	0.1709	0.1172	1.0500e-003		0.0133	0.0133		0.0133	0.0133	0.0000	1,158.4345	1,158.4345	0.0426	0.0116	1,162.9107
Mobile	1.8400	2.8754	16.1225	0.0451	3.0534	0.0513	3.1046	0.8166	0.0473	0.8639	0.0000	3,018.3740	3,018.3740	0.1102	0.0000	3,020.6880
Waste						0.0000	0.0000		0.0000	0.0000	50.0332	0.0000	50.0332	2.9569	0.0000	112.1277
Water						0.0000	0.0000		0.0000	0.0000	10.9159	174.1881	185.1040	1.1280	0.0279	217.4347
Total	**9.2753**	**3.1400**	**24.7137**	**0.0492**	**3.0534**	**1.1547**	**4.2080**	**0.8166**	**1.1507**	**1.9673**	**164.2449**	**4,395.5333**	**4,559.7782**	**4.3342**	**0.0476**	**4,665.5388**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.08**	**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	Building Construction	Building Construction	1/1/2023	12/31/2023	5	260	
2	Paving	Paving	1/1/2023	12/31/2023	5	260	
3	Architectural Coating	Architectural Coating	1/1/2023	12/31/2023	5	130	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

Residential Indoor: 202,500; Residential Outdoor: 67,500; Non-Residential Indoor: 260,438; Non-Residential Outdoor: 86,813

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor

Building Construction	Cranes	2	7.00	226	0.29
Building Construction	Forklifts	6	8.00	89	0.20
Building Construction	Generator Sets	2	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	6	7.00	97	0.37
Building Construction	Welders	2	8.00	46	0.45
Paving	Cement and Mortar Mixers	2	8.00	9	0.56
Paving	Pavers	2	8.00	125	0.42
Paving	Paving Equipment	2	8.00	130	0.36
Paving	Rollers	2	8.00	80	0.38
Paving	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Architectural Coating	Air Compressors	2	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
Building Construction	18	137.00	39.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	10	25.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	2	27.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

3.2 Building Construction - 2023

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	0.4072	3.7213	4.2144	6.9800e-003		0.1812	0.1812		0.1705	0.1705	0.0000	600.1960	600.1960	0.1426	0.0000	603.1898
Total	**0.4072**	**3.7213**	**4.2144**	**6.9800e-003**		**0.1812**	**0.1812**		**0.1705**	**0.1705**	**0.0000**	**600.1960**	**600.1960**	**0.1426**	**0.0000**	**603.1898**

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	0.0371	0.1942	0.5111	1.1900e-003	0.0330	4.2400e-003	0.0372	9.4300e-003	3.9000e-003	0.0133	0.0000	100.9977	100.9977	7.2000e-004	0.0000	101.0127
Worker	0.0382	0.0486	0.4565	1.7600e-003	0.1428	1.0700e-003	0.1439	0.0380	9.9000e-004	0.0389	0.0000	108.4808	108.4808	4.8100e-003	0.0000	108.5819
Total	**0.0753**	**0.2428**	**0.9676**	**2.9500e-003**	**0.1758**	**5.3100e-003**	**0.1811**	**0.0474**	**4.8900e-003**	**0.0523**	**0.0000**	**209.4785**	**209.4785**	**5.5300e-003**	**0.0000**	**209.5946**

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	0.1745	3.6853	4.6321	6.9800e-003		0.2344	0.2344		0.2344	0.2344	0.0000	600.1953	600.1953	0.1426	0.0000	603.1891
Total	**0.1745**	**3.6853**	**4.6321**	**6.9800e-003**		**0.2344**	**0.2344**		**0.2344**	**0.2344**	**0.0000**	**600.1953**	**600.1953**	**0.1426**	**0.0000**	**603.1891**

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	0.0371	0.1942	0.5111	1.1900e-003	0.0330	4.2400e-003	0.0372	9.4300e-003	3.9000e-003	0.0133	0.0000	100.9977	100.9977	7.2000e-004	0.0000	101.0127
Worker	0.0382	0.0486	0.4565	1.7600e-003	0.1428	1.0700e-003	0.1439	0.0380	9.9000e-004	0.0389	0.0000	108.4808	108.4808	4.8100e-003	0.0000	108.5819
Total	**0.0753**	**0.2428**	**0.9676**	**2.9500e-003**	**0.1758**	**5.3100e-003**	**0.1811**	**0.0474**	**4.8900e-003**	**0.0523**	**0.0000**	**209.4785**	**209.4785**	**5.5300e-003**	**0.0000**	**209.5946**

3.3 Paving - 2023

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	0.1863	1.7948	2.5174	3.9000e-003		0.0886	0.0886		0.0818	0.0818	0.0000	337.8573	337.8573	0.1067	0.0000	340.0970
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.1863**	**1.7948**	**2.5174**	**3.9000e-003**		**0.0886**	**0.0886**		**0.0818**	**0.0818**	**0.0000**	**337.8573**	**337.8573**	**0.1067**	**0.0000**	**340.0970**

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	6.9700e-003	8.8600e-003	0.0833	3.2000e-004	0.0261	2.0000e-004	0.0263	6.9300e-003	1.8000e-004	7.1100e-003	0.0000	19.7958	19.7958	8.8000e-004	0.0000	19.8142
Total	**6.9700e-003**	**8.8600e-003**	**0.0833**	**3.2000e-004**	**0.0261**	**2.0000e-004**	**0.0263**	**6.9300e-003**	**1.8000e-004**	**7.1100e-003**	**0.0000**	**19.7958**	**19.7958**	**8.8000e-004**	**0.0000**	**19.8142**

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	0.0911	1.8893	2.8095	3.9000e-003		0.1094	0.1094		0.1094	0.1094	0.0000	337.8569	337.8569	0.1067	0.0000	340.0966
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0911**	**1.8893**	**2.8095**	**3.9000e-003**		**0.1094**	**0.1094**		**0.1094**	**0.1094**	**0.0000**	**337.8569**	**337.8569**	**0.1067**	**0.0000**	**340.0966**

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	6.9700e-003	8.8600e-003	0.0833	3.2000e-004	0.0261	2.0000e-004	0.0263	6.9300e-003	1.8000e-004	7.1100e-003	0.0000	19.7958	19.7958	8.8000e-004	0.0000	19.8142
Total	**6.9700e-003**	**8.8600e-003**	**0.0833**	**3.2000e-004**	**0.0261**	**2.0000e-004**	**0.0263**	**6.9300e-003**	**1.8000e-004**	**7.1100e-003**	**0.0000**	**19.7958**	**19.7958**	**8.8000e-004**	**0.0000**	**19.8142**

3.4 Architectural Coating - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	1.7881					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0498	0.3388	0.4709	7.7000e-004		0.0184	0.0184		0.0184	0.0184	0.0000	66.3846	66.3846	3.9700e-003	0.0000	66.4680
Total	**1.8379**	**0.3388**	**0.4709**	**7.7000e-004**		**0.0184**	**0.0184**		**0.0184**	**0.0184**	**0.0000**	**66.3846**	**66.3846**	**3.9700e-003**	**0.0000**	**66.4680**

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	7.5300e-003	9.5700e-003	0.0900	3.5000e-004	0.0282	2.1000e-004	0.0284	7.4800e-003	2.0000e-004	7.6800e-003	0.0000	21.3794	21.3794	9.5000e-004	0.0000	21.3994
Total	**7.5300e-003**	**9.5700e-003**	**0.0900**	**3.5000e-004**	**0.0282**	**2.1000e-004**	**0.0284**	**7.4800e-003**	**2.0000e-004**	**7.6800e-003**	**0.0000**	**21.3794**	**21.3794**	**9.5000e-004**	**0.0000**	**21.3994**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	1.7881					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0155	0.3528	0.4764	7.7000e-004		0.0247	0.0247		0.0247	0.0247	0.0000	66.3845	66.3845	3.9700e-003	0.0000	66.4679
Total	**1.8036**	**0.3528**	**0.4764**	**7.7000e-004**		**0.0247**	**0.0247**		**0.0247**	**0.0247**	**0.0000**	**66.3845**	**66.3845**	**3.9700e-003**	**0.0000**	**66.4679**

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	7.5300e-003	9.5700e-003	0.0900	3.5000e-004	0.0282	2.1000e-004	0.0284	7.4800e-003	2.0000e-004	7.6800e-003	0.0000	21.3794	21.3794	9.5000e-004	0.0000	21.3994
Total	**7.5300e-003**	**9.5700e-003**	**0.0900**	**3.5000e-004**	**0.0282**	**2.1000e-004**	**0.0284**	**7.4800e-003**	**2.0000e-004**	**7.6800e-003**	**0.0000**	**21.3794**	**21.3794**	**9.5000e-004**	**0.0000**	**21.3994**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	1.8400	2.8754	16.1225	0.0451	3.0534	0.0513	3.1046	0.8166	0.0473	0.8639	0.0000	3,018.3740	3,018.3740	0.1102	0.0000	3,020.6880
Unmitigated	1.8400	2.8754	16.1225	0.0451	3.0534	0.0513	3.1046	0.8166	0.0473	0.8639	0.0000	3,018.3740	3,018.3740	0.1102	0.0000	3,020.6880

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Condo/Townhouse	659.00	716.00	607.00	1,883,684	1,883,684
Industrial Park	665.58	238.12	69.81	1,361,797	1,361,797
Strip Mall	3,456.96	3,279.12	1593.54	4,874,746	4,874,746
Total	4,781.54	4,233.24	2,270.35	8,120,228	8,120,228

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Condo/Townhouse	10.80	7.30	7.50	41.60	18.80	39.60	86	11	3
Industrial Park	9.50	7.30	7.30	59.00	28.00	13.00	79	19	2
Strip Mall	9.50	7.30	7.30	16.60	64.40	19.00	45	40	15

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.512248	0.073433	0.191497	0.131060	0.036113	0.005160	0.012598	0.023461	0.001877	0.002039	0.006522	0.000554	0.003439

5.0 Energy Detail

4.4 Fleet Mix

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	967.9941	967.9941	0.0390	8.0600e-003	971.3112
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	967.9941	967.9941	0.0390	8.0600e-003	971.3112
NaturalGas Mitigated	0.0192	0.1709	0.1172	1.0500e-003		0.0133	0.0133		0.0133	0.0133	0.0000	190.4404	190.4404	3.6500e-003	3.4900e-003	191.5994
NaturalGas Unmitigated	0.0192	0.1709	0.1172	1.0500e-003		0.0133	0.0133		0.0133	0.0133	0.0000	190.4404	190.4404	3.6500e-003	3.4900e-003	191.5994

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					
Industrial Park	2.01099e+006	0.0108	0.0986	0.0828	5.9000e-004		7.4900e-003	7.4900e-003		7.4900e-003	7.4900e-003	0.0000	107.3143	107.3143	2.0600e-003	1.9700e-003	107.9674
Strip Mall	178620	9.6000e-004	8.7600e-003	7.3500e-003	5.0000e-005		6.7000e-004	6.7000e-004		6.7000e-004	6.7000e-004	0.0000	9.5318	9.5318	1.8000e-004	1.7000e-004	9.5899
Condo/Townhouse	1.37911e+006	7.4400e-003	0.0636	0.0270	4.1000e-004		5.1400e-003	5.1400e-003		5.1400e-003	5.1400e-003	0.0000	73.5943	73.5943	1.4100e-003	1.3500e-003	74.0422
Total		**0.0192**	**0.1709**	**0.1172**	**1.0500e-003**		**0.0133**	**0.0133**		**0.0133**	**0.0133**	**0.0000**	**190.4404**	**190.4404**	**3.6500e-003**	**3.4900e-003**	**191.5994**

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					
Industrial Park	2.01099e+006	0.0108	0.0986	0.0828	5.9000e-004		7.4900e-003	7.4900e-003		7.4900e-003	7.4900e-003	0.0000	107.3143	107.3143	2.0600e-003	1.9700e-003	107.9674
Strip Mall	178620	9.6000e-004	8.7600e-003	7.3500e-003	5.0000e-005		6.7000e-004	6.7000e-004		6.7000e-004	6.7000e-004	0.0000	9.5318	9.5318	1.8000e-004	1.7000e-004	9.5899
Condo/Townhouse	1.37911e+006	7.4400e-003	0.0636	0.0270	4.1000e-004		5.1400e-003	5.1400e-003		5.1400e-003	5.1400e-003	0.0000	73.5943	73.5943	1.4100e-003	1.3500e-003	74.0422
Total		**0.0192**	**0.1709**	**0.1172**	**1.0500e-003**		**0.0133**	**0.0133**		**0.0133**	**0.0133**	**0.0000**	**190.4404**	**190.4404**	**3.6500e-003**	**3.4900e-003**	**191.5994**

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Condo/Townhouse	433420	141.6455	5.7000e-003	1.1800e-003	142.1309
Industrial Park	1.43342e+006	468.4538	0.0189	3.9000e-003	470.0591
Strip Mall	1.09512e+006	357.8948	0.0144	2.9800e-003	359.1213
Total		**967.9941**	**0.0390**	**8.0600e-003**	**971.3112**

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e

Land Use	kWh/yr	MT/yr			
Condo/Townhouse	433420	141.6455	5.7000e-003	1.1800e-003	142.1309
Industrial Park	1.43342e+006	468.4538	0.0189	3.9000e-003	470.0591
Strip Mall	1.09512e+006	357.8948	0.0144	2.9800e-003	359.1213
Total		**967.9941**	**0.0390**	**8.0600e-003**	**971.3112**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	7.4161	0.0937	8.4739	3.0600e-003		1.0901	1.0901		1.0901	1.0901	103.2958	44.5367	147.8325	0.0965	8.1200e-003	152.3777
Unmitigated	7.4161	0.0937	8.4739	3.0600e-003		1.0901	1.0901		1.0901	1.0901	103.2958	44.5367	147.8325	0.0965	8.1200e-003	152.3777

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	0.0503					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

Consumer Products	1.0686					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	6.2746	0.0851	7.7297	3.0200e-003		1.0860	1.0860		1.0859	1.0859	103.2958	43.3207	146.6165	0.0953	8.1200e-003	151.1371
Landscaping	0.0225	8.5800e-003	0.7443	4.0000e-005		4.1200e-003	4.1200e-003		4.1200e-003	4.1200e-003	0.0000	1.2160	1.2160	1.1700e-003	0.0000	1.2407
Total	**7.4161**	**0.0937**	**8.4739**	**3.0600e-003**		**1.0901**	**1.0901**		**1.0901**	**1.0901**	**103.2958**	**44.5367**	**147.8325**	**0.0965**	**8.1200e-003**	**152.3777**

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	0.0503					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	1.0686					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	6.2746	0.0851	7.7297	3.0200e-003		1.0860	1.0860		1.0859	1.0859	103.2958	43.3207	146.6165	0.0953	8.1200e-003	151.1371
Landscaping	0.0225	8.5800e-003	0.7443	4.0000e-005		4.1200e-003	4.1200e-003		4.1200e-003	4.1200e-003	0.0000	1.2160	1.2160	1.1700e-003	0.0000	1.2407
Total	**7.4161**	**0.0937**	**8.4739**	**3.0600e-003**		**1.0901**	**1.0901**		**1.0901**	**1.0901**	**103.2958**	**44.5367**	**147.8325**	**0.0965**	**8.1200e-003**	**152.3777**

7.0 Water Detail

7.1 Mitigation Measures Water

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	185.1040	1.1280	0.0279	217.4347

Unmitigated	185.1040	1.1282	0.0279	217.4521

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Condo/Townhouse	6.5154 / 4.10754	44.7064	0.2140	5.3700e-003	50.8649
Industrial Park	22.1144 / 0	101.1212	0.7244	0.0178	121.8509
Strip Mall	5.77766 / 3.54114	39.2764	0.1898	4.7600e-003	44.7364
Total		**185.1040**	**1.1282**	**0.0279**	**217.4521**

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Condo/Townhouse	6.5154 / 4.10754	44.7064	0.2140	5.3600e-003	50.8616
Industrial Park	22.1144 / 0	101.1212	0.7243	0.0178	121.8397
Strip Mall	5.77766 / 3.54114	39.2764	0.1897	4.7500e-003	44.7335
Total		**185.1040**	**1.1280**	**0.0279**	**217.4347**

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	50.0332	2.9569	0.0000	112.1277
Unmitigated	50.0332	2.9569	0.0000	112.1277

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Condo/Townhouse	46	9.3376	0.5518	0.0000	20.9261
Industrial Park	118.58	24.0707	1.4225	0.0000	53.9439
Strip Mall	81.9	16.6250	0.9825	0.0000	37.2576
Total		**50.0332**	**2.9569**	**0.0000**	**112.1277**

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Condo/Townhouse	46	9.3376	0.5518	0.0000	20.9261
Industrial Park	118.58	24.0707	1.4225	0.0000	53.9439
Strip Mall	81.9	16.6250	0.9825	0.0000	37.2576
Total		**50.0332**	**2.9569**	**0.0000**	**112.1277**

9.0 Operational Offroad

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

10.0 Vegetation

East Otay Mesa Specific Plan Amendment Phase 6 Construction

San Diego Air Basin, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Industrial Park	95.63	1000sqft	2.20	95,625.00	0
Condo/Townhouse	100.00	Dwelling Unit	6.25	100,000.00	286
Strip Mall	78.00	1000sqft	1.79	78,000.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.6	**Precipitation Freq (Days)**	40
Climate Zone	13			**Operational Year**	2023
Utility Company	San Diego Gas & Electric				
CO2 Intensity (lb/MWhr)	720.49	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	250.00	100.00
tblArchitecturalCoating	EF_Nonresidential_Interior	250.00	50.00
tblArchitecturalCoating	EF_Residential_Exterior	250.00	100.00
tblArchitecturalCoating	EF_Residential_Interior	250.00	50.00
tblAreaCoating	Area_Nonresidential_Interior	260438	0
tblAreaCoating	Area_Residential_Exterior	67500	0
tblAreaCoating	Area_Residential_Interior	202500	0
tblAreaMitigation	UseLowVOCPaintNonresidentialExteriorValue	250	0

tblAreaMitigation	UseLowVOCPaintNonresidentialInteriorValue	250	0
tblAreaMitigation	UseLowVOCPaintResidentialExteriorValue	250	0
tblAreaMitigation	UseLowVOCPaintResidentialInteriorValue	250	0
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	6.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	8.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstructionPhase	NumDays	20.00	130.00
tblConstructionPhase	NumDays	300.00	260.00
tblConstructionPhase	NumDays	20.00	260.00
tblConstructionPhase	PhaseEndDate	6/28/2024	12/31/2023
tblConstructionPhase	PhaseEndDate	12/29/2023	12/31/2023
tblConstructionPhase	PhaseEndDate	12/27/2024	12/31/2023
tblConstructionPhase	PhaseStartDate	1/1/2024	1/1/2023

tblConstructionPhase	PhaseStartDate	1/1/2024	1/1/2023
tblLandUse	LandUseSquareFeet	95,630.00	95,625.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	6.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	6.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblProjectCharacteristics	OperationalYear	2014	2023

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					
2023	19.3864	46.9590	63.6526	0.1185	1.8114	2.2602	4.0716	0.4857	2.1224	2.6081	0.0000	10,714.6168	10,714.6168	2.2092	0.0000	10,761.0093
Total	**19.3864**	**46.9590**	**63.6526**	**0.1185**	**1.8114**	**2.2602**	**4.0716**	**0.4857**	**2.1224**	**2.6081**	**0.0000**	**10,714.6168**	**10,714.6168**	**2.2092**	**0.0000**	**10,761.0093**

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					

2023	16.6000	47.5172	69.1553	0.1185	1.8114	2.8784	4.6898	0.4857	2.8750	3.3606	0.0000	10,714.6168	10,714.6168	2.2092	0.0000	10,761.0093
Total	**16.6000**	**47.5172**	**69.1553**	**0.1185**	**1.8114**	**2.8784**	**4.6898**	**0.4857**	**2.8750**	**3.3606**	**0.0000**	**10,714.6168**	**10,714.6168**	**2.2092**	**0.0000**	**10,761.0093**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**14.37**	**-1.19**	**-8.64**	**0.00**	**0.00**	**-27.35**	**-15.18**	**0.00**	**-35.46**	**-28.86**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	159.4209	2.1716	196.7979	0.0741		26.5328	26.5328		26.5320	26.5320	2,777.1731	1,179.5991	3,956.7722	2.5773	0.2185	4,078.6127
Energy	0.1054	0.9363	0.6422	5.7500e-003		0.0729	0.0729		0.0729	0.0729		1,150.2720	1,150.2720	0.0221	0.0211	1,157.2723
Mobile	11.3382	16.7218	94.3084	0.2904	19.2819	0.3157	19.5975	5.1468	0.2915	5.4383		21,375.6925	21,375.6925	0.7486		21,391.4136
Total	**170.8646**	**19.8298**	**291.7485**	**0.3703**	**19.2819**	**26.9213**	**46.2032**	**5.1468**	**26.8964**	**32.0432**	**2,777.1731**	**23,705.5636**	**26,482.7367**	**3.3479**	**0.2395**	**26,627.2986**

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	159.4209	2.1716	196.7979	0.0741		26.5328	26.5328		26.5320	26.5320	2,777.1731	1,179.5991	3,956.7722	2.5773	0.2185	4,078.6127

Energy	0.1054	0.9363	0.6422	5.7500e-003		0.0729	0.0729		0.0729	0.0729		1,150.2720	1,150.2720	0.0221	0.0211	1,157.2723
Mobile	11.3382	16.7218	94.3084	0.2904	19.2819	0.3157	19.5975	5.1468	0.2915	5.4383		21,375.6925	21,375.6925	0.7486		21,391.4136
Total	**170.8646**	**19.8298**	**291.7485**	**0.3703**	**19.2819**	**26.9213**	**46.2032**	**5.1468**	**26.8964**	**32.0432**	**2,777.1731**	**23,705.5636**	**26,482.7367**	**3.3479**	**0.2395**	**26,627.2986**

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

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Building Construction	Building Construction	1/1/2023	12/31/2023	5	260	
2	Paving	Paving	1/1/2023	12/31/2023	5	260	
3	Architectural Coating	Architectural Coating	1/1/2023	12/31/2023	5	130	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

Residential Indoor: 202,500; Residential Outdoor: 67,500; Non-Residential Indoor: 260,438; Non-Residential Outdoor: 86,813

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Building Construction	Cranes	2	7.00	226	0.29
Building Construction	Forklifts	6	8.00	89	0.20
Building Construction	Generator Sets	2	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	6	7.00	97	0.37
Building Construction	Welders	2	8.00	46	0.45
Paving	Cement and Mortar Mixers	2	8.00	9	0.56

Paving	Pavers	2	8.00	125	0.42
Paving	Paving Equipment	2	8.00	130	0.36
Paving	Rollers	2	8.00	80	0.38
Paving	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Architectural Coating	Air Compressors	2	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
Building Construction	18	137.00	39.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	10	25.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	2	27.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

3.2 Building Construction - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	3.1322	28.6253	32.4185	0.0537		1.3934	1.3934		1.3113	1.3113		5,089.2525	5,089.2525	1.2088		5,114.6382
Total	**3.1322**	**28.6253**	**32.4185**	**0.0537**		**1.3934**	**1.3934**		**1.3113**	**1.3113**		**5,089.2525**	**5,089.2525**	**1.2088**		**5,114.6382**

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	0.2658	1.4543	3.1451	9.1700e-003	0.2588	0.0325	0.2913	0.0738	0.0299	0.1037		859.2015	859.2015	5.9900e-003		859.3273
Worker	0.3025	0.3389	3.6986	0.0143	1.1254	8.2300e-003	1.1337	0.2985	7.6300e-003	0.3061		970.2117	970.2117	0.0408		971.0688
Total	**0.5684**	**1.7932**	**6.8437**	**0.0235**	**1.3843**	**0.0407**	**1.4250**	**0.3724**	**0.0375**	**0.4099**		**1,829.4132**	**1,829.4132**	**0.0468**		**1,830.3961**

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	1.3424	28.3483	35.6312	0.0537		1.8032	1.8032		1.8032	1.8032	0.0000	5,089.2525	5,089.2525	1.2088		5,114.6382
Total	**1.3424**	**28.3483**	**35.6312**	**0.0537**		**1.8032**	**1.8032**		**1.8032**	**1.8032**	**0.0000**	**5,089.2525**	**5,089.2525**	**1.2088**		**5,114.6382**

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	0.2658	1.4543	3.1451	9.1700e-003	0.2588	0.0325	0.2913	0.0738	0.0299	0.1037		859.2015	859.2015	5.9900e-003		859.3273
Worker	0.3025	0.3389	3.6986	0.0143	1.1254	8.2300e-003	1.1337	0.2985	7.6300e-003	0.3061		970.2117	970.2117	0.0408		971.0688
Total	**0.5684**	**1.7932**	**6.8437**	**0.0235**	**1.3843**	**0.0407**	**1.4250**	**0.3724**	**0.0375**	**0.4099**		**1,829.4132**	**1,829.4132**	**0.0468**		**1,830.3961**

3.3 Paving - 2023

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	1.4330	13.8060	19.3643	0.0300		0.6813	0.6813		0.6291	0.6291		2,864.7995	2,864.7995	0.9044		2,883.7908
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**1.4330**	**13.8060**	**19.3643**	**0.0300**		**0.6813**	**0.6813**		**0.6291**	**0.6291**		**2,864.7995**	**2,864.7995**	**0.9044**		**2,883.7908**

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	0.0552	0.0618	0.6749	2.6100e-003	0.2054	1.5000e-003	0.2069	0.0545	1.3900e-003	0.0559		177.0459	177.0459	7.4500e-003		177.2023

Total	**0.0552**	**0.0618**	**0.6749**	**2.6100e-003**	**0.2054**	**1.5000e-003**	**0.2069**	**0.0545**	**1.3900e-003**	**0.0559**		**177.0459**	**177.0459**	**7.4500e-003**		**177.2023**

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	0.7009	14.5333	21.6118	0.0300		0.8413	0.8413		0.8413	0.8413	0.0000	2,864.7995	2,864.7995	0.9044		2,883.7908
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**0.7009**	**14.5333**	**21.6118**	**0.0300**		**0.8413**	**0.8413**		**0.8413**	**0.8413**	**0.0000**	**2,864.7995**	**2,864.7995**	**0.9044**		**2,883.7908**

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	0.0552	0.0618	0.6749	2.6100e-003	0.2054	1.5000e-003	0.2069	0.0545	1.3900e-003	0.0559		177.0459	177.0459	7.4500e-003		177.2023
Total	**0.0552**	**0.0618**	**0.6749**	**2.6100e-003**	**0.2054**	**1.5000e-003**	**0.2069**	**0.0545**	**1.3900e-003**	**0.0559**		**177.0459**	**177.0459**	**7.4500e-003**		**177.2023**

3.4 Architectural Coating - 2023

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	13.7546					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.3833	2.6060	3.6222	5.9400e-003		0.1416	0.1416		0.1416	0.1416		562.8961	562.8961	0.0337		563.6033
Total	**14.1379**	**2.6060**	**3.6222**	**5.9400e-003**		**0.1416**	**0.1416**		**0.1416**	**0.1416**		**562.8961**	**562.8961**	**0.0337**		**563.6033**

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	0.0596	0.0668	0.7289	2.8100e-003	0.2218	1.6200e-003	0.2234	0.0588	1.5000e-003	0.0603		191.2096	191.2096	8.0400e-003		191.3785
Total	**0.0596**	**0.0668**	**0.7289**	**2.8100e-003**	**0.2218**	**1.6200e-003**	**0.2234**	**0.0588**	**1.5000e-003**	**0.0603**		**191.2096**	**191.2096**	**8.0400e-003**		**191.3785**

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	13.7546					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1189	2.7140	3.6648	5.9400e-003		0.1902	0.1902		0.1902	0.1902	0.0000	562.8961	562.8961	0.0337		563.6033
Total	**13.8735**	**2.7140**	**3.6648**	**5.9400e-003**		**0.1902**	**0.1902**		**0.1902**	**0.1902**	**0.0000**	**562.8961**	**562.8961**	**0.0337**		**563.6033**

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	0.0596	0.0668	0.7289	2.8100e-003	0.2218	1.6200e-003	0.2234	0.0588	1.5000e-003	0.0603		191.2096	191.2096	8.0400e-003		191.3785
Total	**0.0596**	**0.0668**	**0.7289**	**2.8100e-003**	**0.2218**	**1.6200e-003**	**0.2234**	**0.0588**	**1.5000e-003**	**0.0603**		**191.2096**	**191.2096**	**8.0400e-003**		**191.3785**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	11.3382	16.7218	94.3084	0.2904	19.2819	0.3157	19.5975	5.1468	0.2915	5.4383		21,375.6925	21,375.6925	0.7486		21,391.4136
Unmitigated	11.3382	16.7218	94.3084	0.2904	19.2819	0.3157	19.5975	5.1468	0.2915	5.4383		21,375.6925	21,375.6925	0.7486		21,391.4136

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Condo/Townhouse	659.00	716.00	607.00	1,883,684	1,883,684
Industrial Park	665.58	238.12	69.81	1,361,797	1,361,797
Strip Mall	3,456.96	3,279.12	1593.54	4,874,746	4,874,746
Total	4,781.54	4,233.24	2,270.35	8,120,228	8,120,228

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Condo/Townhouse	10.80	7.30	7.50	41.60	18.80	39.60	86	11	3
Industrial Park	9.50	7.30	7.30	59.00	28.00	13.00	79	19	2
Strip Mall	9.50	7.30	7.30	16.60	64.40	19.00	45	40	15

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.512248	0.073433	0.191497	0.131060	0.036113	0.005160	0.012598	0.023461	0.001877	0.002039	0.006522	0.000554	0.003439

5.0 Energy Detail

4.4 Fleet Mix

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	0.1054	0.9363	0.6422	5.7500e-003		0.0729	0.0729		0.0729	0.0729		1,150.2720	1,150.2720	0.0221	0.0211	1,157.2723
NaturalGas Unmitigated	0.1054	0.9363	0.6422	5.7500e-003		0.0729	0.0729		0.0729	0.0729		1,150.2720	1,150.2720	0.0221	0.0211	1,157.2723

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					
Industrial Park	5509.57	0.0594	0.5402	0.4537	3.2400e-003		0.0411	0.0411		0.0411	0.0411		648.1849	648.1849	0.0124	0.0119	652.1297
Strip Mall	489.37	5.2800e-003	0.0480	0.0403	2.9000e-004		3.6500e-003	3.6500e-003		3.6500e-003	3.6500e-003		57.5729	57.5729	1.1000e-003	1.0600e-003	57.9233
Condo/Townhouse	3778.37	0.0408	0.3482	0.1482	2.2200e-003		0.0282	0.0282		0.0282	0.0282		444.5141	444.5141	8.5200e-003	8.1500e-003	447.2193
Total		**0.1055**	**0.9363**	**0.6422**	**5.7500e-003**		**0.0729**	**0.0729**		**0.0729**	**0.0729**		**1,150.2720**	**1,150.2720**	**0.0220**	**0.0211**	**1,157.2723**

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					
Industrial Park	5.50957	0.0594	0.5402	0.4537	3.2400e-003		0.0411	0.0411		0.0411	0.0411		648.1849	648.1849	0.0124	0.0119	652.1297
Strip Mall	0.48937	5.2800e-003	0.0480	0.0403	2.9000e-004		3.6500e-003	3.6500e-003		3.6500e-003	3.6500e-003		57.5729	57.5729	1.1000e-003	1.0600e-003	57.9233
Condo/Townhouse	3.77837	0.0408	0.3482	0.1482	2.2200e-003		0.0282	0.0282		0.0282	0.0282		444.5141	444.5141	8.5200e-003	8.1500e-003	447.2193
Total		**0.1055**	**0.9363**	**0.6422**	**5.7500e-003**		**0.0729**	**0.0729**		**0.0729**	**0.0729**		**1,150.2720**	**1,150.2720**	**0.0220**	**0.0211**	**1,157.2723**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	159.4209	2.1716	196.7979	0.0741		26.5328	26.5328		26.5320	26.5320	2,777.1731	1,179.5991	3,956.7722	2.5773	0.2185	4,078.6127
Unmitigated	159.4209	2.1716	196.7979	0.0741		26.5328	26.5328		26.5320	26.5320	2,777.1731	1,179.5991	3,956.7722	2.5773	0.2185	4,078.6127

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	0.2756					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	5.8556					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	153.0395	2.0763	188.5282	0.0736		26.4871	26.4871		26.4863	26.4863	2,777.1731	1,164.7059	3,941.8790	2.5629	0.2185	4,063.4174
Landscaping	0.2502	0.0953	8.2697	4.4000e-004		0.0457	0.0457		0.0457	0.0457		14.8932	14.8932	0.0144		15.1953
Total	**159.4209**	**2.1716**	**196.7979**	**0.0741**		**26.5328**	**26.5328**		**26.5320**	**26.5320**	**2,777.1731**	**1,179.5991**	**3,956.7722**	**2.5773**	**0.2185**	**4,078.6127**

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	0.2756					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	5.8556					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	153.0395	2.0763	188.5282	0.0736		26.4871	26.4871		26.4863	26.4863	2,777.1731	1,164.7059	3,941.8790	2.5629	0.2185	4,063.4174
Landscaping	0.2502	0.0953	8.2697	4.4000e-004		0.0457	0.0457		0.0457	0.0457		14.8932	14.8932	0.0144		15.1953
Total	**159.4209**	**2.1716**	**196.7979**	**0.0741**		**26.5328**	**26.5328**		**26.5320**	**26.5320**	**2,777.1731**	**1,179.5991**	**3,956.7722**	**2.5773**	**0.2185**	**4,078.6127**

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 Vegetation

East Otay Mesa Specific Plan Amendment Construction Phase 7

San Diego Air Basin, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Industrial Park	95.63	1000sqft	4.00	95,625.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.6	**Precipitation Freq (Days)**	40
Climate Zone	13			**Operational Year**	2024
Utility Company	San Diego Gas & Electric				
CO2 Intensity (lb/MWhr)	720.49	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	250.00	100.00
tblArchitecturalCoating	EF_Nonresidential_Interior	250.00	50.00
tblAreaCoating	Area_Nonresidential_Interior	143438	0
tblAreaMitigation	UseLowVOCPaintNonresidentialExteriorValue	250	0
tblAreaMitigation	UseLowVOCPaintNonresidentialInteriorValue	250	0
tblAreaMitigation	UseLowVOCPaintResidentialExteriorValue	250	0
tblAreaMitigation	UseLowVOCPaintResidentialInteriorValue	250	0
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00

tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	6.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	8.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstructionPhase	NumDays	18.00	132.00
tblConstructionPhase	NumDays	230.00	262.00
tblConstructionPhase	NumDays	18.00	262.00
tblConstructionPhase	PhaseEndDate	7/3/2025	12/31/2024
tblConstructionPhase	PhaseEndDate	1/1/2026	12/31/2024
tblConstructionPhase	PhaseStartDate	1/1/2025	1/1/2024
tblConstructionPhase	PhaseStartDate	1/1/2025	1/1/2024
tblLandUse	LandUseSquareFeet	95,630.00	95,625.00
tblLandUse	LotAcreage	2.20	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	6.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00

tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	6.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblProjectCharacteristics	OperationalYear	2014	2024

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					
2024	1.1712	5.4079	7.3705	0.0127	0.0903	0.2488	0.3391	0.0243	0.2337	0.2580	0.0000	1,070.3395	1,070.3395	0.2442	0.0000	1,075.4681
Total	**1.1712**	**5.4079**	**7.3705**	**0.0127**	**0.0903**	**0.2488**	**0.3391**	**0.0243**	**0.2337**	**0.2580**	**0.0000**	**1,070.3395**	**1,070.3395**	**0.2442**	**0.0000**	**1,075.4681**

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					
2024	0.8564	5.8554	8.0823	0.0127	0.0903	0.3609	0.4512	0.0243	0.3607	0.3850	0.0000	1,070.3383	1,070.3383	0.2442	0.0000	1,075.4669
Total	**0.8564**	**5.8554**	**8.0823**	**0.0127**	**0.0903**	**0.3609**	**0.4512**	**0.0243**	**0.3607**	**0.3850**	**0.0000**	**1,070.3383**	**1,070.3383**	**0.2442**	**0.0000**	**1,075.4669**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**26.87**	**-8.27**	**-9.66**	**0.00**	**0.00**	**-45.04**	**-33.04**	**0.00**	**-54.32**	**-49.21**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.4013	1.0000e-005	8.8000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.7100e-003	1.7100e-003	0.0000	0.0000	1.8000e-003
Energy	0.0108	0.0986	0.0828	5.9000e-004		7.4900e-003	7.4900e-003		7.4900e-003	7.4900e-003	0.0000	575.7681	575.7681	0.0209	5.8700e-003	578.0265
Mobile	0.2335	0.4315	2.2843	7.4700e-003	0.5121	8.2800e-003	0.5203	0.1370	7.6500e-003	0.1446	0.0000	495.2818	495.2818	0.0172	0.0000	495.6425
Waste						0.0000	0.0000		0.0000	0.0000	24.0707	0.0000	24.0707	1.4225	0.0000	53.9439
Water						0.0000	0.0000		0.0000	0.0000	7.0159	94.1053	101.1212	0.7244	0.0178	121.8509
Total	**0.6455**	**0.5301**	**2.3680**	**8.0600e-003**	**0.5121**	**0.0158**	**0.5278**	**0.1370**	**0.0151**	**0.1521**	**31.0866**	**1,165.1569**	**1,196.2434**	**2.1850**	**0.0237**	**1,249.4656**

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	tons/yr										MT/yr					
Area	0.4013	1.0000e-005	8.8000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.7100e-003	1.7100e-003	0.0000	0.0000	1.8000e-003

Energy	0.0108	0.0986	0.0828	5.9000e-004		7.4900e-003	7.4900e-003		7.4900e-003	7.4900e-003	0.0000	575.7681	575.7681	0.0209	5.8700e-003	578.0265
Mobile	0.2335	0.4315	2.2843	7.4700e-003	0.5121	8.2800e-003	0.5203	0.1370	7.6500e-003	0.1446	0.0000	495.2818	495.2818	0.0172	0.0000	495.6425
Waste						0.0000	0.0000		0.0000	0.0000	24.0707	0.0000	24.0707	1.4225	0.0000	53.9439
Water						0.0000	0.0000		0.0000	0.0000	7.0159	94.1053	101.1212	0.7243	0.0178	121.8397
Total	**0.6455**	**0.5301**	**2.3680**	**8.0600e-003**	**0.5121**	**0.0158**	**0.5278**	**0.1370**	**0.0151**	**0.1521**	**31.0866**	**1,165.1569**	**1,196.2434**	**2.1849**	**0.0236**	**1,249.4544**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.01**	**0.13**	**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	Building Construction	Building Construction	1/1/2024	12/31/2024	5	262	
2	Paving	Paving	1/1/2024	12/31/2024	5	262	
3	Architectural Coating	Architectural Coating	1/1/2024	12/31/2024	5	132	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 143,438; Non-Residential Outdoor: 47,813 (Architectural Coating –

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Building Construction	Cranes	2	7.00	226	0.29
Building Construction	Forklifts	6	8.00	89	0.20
Building Construction	Generator Sets	2	8.00	84	0.74

Building Construction	Tractors/Loaders/Backhoes	6	7.00	97	0.37
Building Construction	Welders	2	8.00	46	0.45
Paving	Cement and Mortar Mixers	2	6.00	9	0.56
Paving	Pavers	2	8.00	125	0.42
Paving	Paving Equipment	2	6.00	130	0.36
Paving	Rollers	2	6.00	80	0.38
Paving	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Architectural Coating	Air Compressors	2	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
Building Construction	18	40.00	16.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	10	25.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	2	8.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

3.2 Building Construction - 2024

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	0.3839	3.5049	4.2269	7.0300e-003		0.1600	0.1600		0.1505	0.1505	0.0000	604.9292	604.9292	0.1428	0.0000	607.9286

Total	**0.3839**	**3.5049**	**4.2269**	**7.0300e-003**		**0.1600**	**0.1600**		**0.1505**	**0.1505**	**0.0000**	**604.9292**	**604.9292**	**0.1428**	**0.0000**	**607.9286**

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	0.0144	0.0792	0.1999	4.9000e-004	0.0136	1.7600e-003	0.0154	3.9000e-003	1.6200e-003	5.5200e-003	0.0000	41.7510	41.7510	3.0000e-004	0.0000	41.7572
Worker	0.0108	0.0136	0.1279	5.2000e-004	0.0420	3.2000e-004	0.0423	0.0112	2.9000e-004	0.0115	0.0000	31.4817	31.4817	1.3700e-003	0.0000	31.5104
Total	**0.0252**	**0.0928**	**0.3278**	**1.0100e-003**	**0.0557**	**2.0800e-003**	**0.0577**	**0.0151**	**1.9100e-003**	**0.0170**	**0.0000**	**73.2326**	**73.2326**	**1.6700e-003**	**0.0000**	**73.2676**

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	0.1759	3.7136	4.6677	7.0300e-003		0.2362	0.2362		0.2362	0.2362	0.0000	604.9284	604.9284	0.1428	0.0000	607.9279
Total	**0.1759**	**3.7136**	**4.6677**	**7.0300e-003**		**0.2362**	**0.2362**		**0.2362**	**0.2362**	**0.0000**	**604.9284**	**604.9284**	**0.1428**	**0.0000**	**607.9279**

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	0.0144	0.0792	0.1999	4.9000e-004	0.0136	1.7600e-003	0.0154	3.9000e-003	1.6200e-003	5.5200e-003	0.0000	41.7510	41.7510	3.0000e-004	0.0000	41.7572
Worker	0.0108	0.0136	0.1279	5.2000e-004	0.0420	3.2000e-004	0.0423	0.0112	2.9000e-004	0.0115	0.0000	31.4817	31.4817	1.3700e-003	0.0000	31.5104
Total	**0.0252**	**0.0928**	**0.3278**	**1.0100e-003**	**0.0557**	**2.0800e-003**	**0.0577**	**0.0151**	**1.9100e-003**	**0.0170**	**0.0000**	**73.2326**	**73.2326**	**1.6700e-003**	**0.0000**	**73.2676**

3.3 Paving - 2024

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	0.1560	1.4797	2.2360	3.4500e-003		0.0706	0.0706		0.0651	0.0651	0.0000	299.3101	299.3101	0.0948	0.0000	301.3014
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.1560**	**1.4797**	**2.2360**	**3.4500e-003**		**0.0706**	**0.0706**		**0.0651**	**0.0651**	**0.0000**	**299.3101**	**299.3101**	**0.0948**	**0.0000**	**301.3014**

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	6.7200e-003	8.5100e-003	0.0800	3.2000e-004	0.0263	2.0000e-004	0.0265	6.9800e-003	1.8000e-004	7.1600e-003	0.0000	19.6760	19.6760	8.6000e-004	0.0000	19.6940
Total	**6.7200e-003**	**8.5100e-003**	**0.0800**	**3.2000e-004**	**0.0263**	**2.0000e-004**	**0.0265**	**6.9800e-003**	**1.8000e-004**	**7.1600e-003**	**0.0000**	**19.6760**	**19.6760**	**8.6000e-004**	**0.0000**	**19.6940**

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	0.0811	1.6822	2.5012	3.4500e-003		0.0974	0.0974		0.0974	0.0974	0.0000	299.3098	299.3098	0.0948	0.0000	301.3011
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0811**	**1.6822**	**2.5012**	**3.4500e-003**		**0.0974**	**0.0974**		**0.0974**	**0.0974**	**0.0000**	**299.3098**	**299.3098**	**0.0948**	**0.0000**	**301.3011**

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	6.7200e-003	8.5100e-003	0.0800	3.2000e-004	0.0263	2.0000e-004	0.0265	6.9800e-003	1.8000e-004	7.1600e-003	0.0000	19.6760	19.6760	8.6000e-004	0.0000	19.6940
Total	**6.7200e-003**	**8.5100e-003**	**0.0800**	**3.2000e-004**	**0.0263**	**2.0000e-004**	**0.0265**	**6.9800e-003**	**1.8000e-004**	**7.1600e-003**	**0.0000**	**19.6760**	**19.6760**	**8.6000e-004**	**0.0000**	**19.6940**

3.4 Architectural Coating - 2024

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	0.5498					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0474	0.3193	0.4743	7.8000e-004		0.0160	0.0160		0.0160	0.0160	0.0000	66.8953	66.8953	3.7700e-003	0.0000	66.9744
Total	**0.5972**	**0.3193**	**0.4743**	**7.8000e-004**		**0.0160**	**0.0160**		**0.0160**	**0.0160**	**0.0000**	**66.8953**	**66.8953**	**3.7700e-003**	**0.0000**	**66.9744**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.1500e-003	2.7200e-003	0.0256	1.0000e-004	8.4000e-003	6.0000e-005	8.4700e-003	2.2300e-003	6.0000e-005	2.2900e-003	0.0000	6.2963	6.2963	2.7000e-004	0.0000	6.3021
Total	**2.1500e-003**	**2.7200e-003**	**0.0256**	**1.0000e-004**	**8.4000e-003**	**6.0000e-005**	**8.4700e-003**	**2.2300e-003**	**6.0000e-005**	**2.2900e-003**	**0.0000**	**6.2963**	**6.2963**	**2.7000e-004**	**0.0000**	**6.3021**

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	0.5498					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0156	0.3555	0.4801	7.8000e-004		0.0249	0.0249		0.0249	0.0249	0.0000	66.8952	66.8952	3.7700e-003	0.0000	66.9743
Total	**0.5654**	**0.3555**	**0.4801**	**7.8000e-004**		**0.0249**	**0.0249**		**0.0249**	**0.0249**	**0.0000**	**66.8952**	**66.8952**	**3.7700e-003**	**0.0000**	**66.9743**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.1500e-003	2.7200e-003	0.0256	1.0000e-004	8.4000e-003	6.0000e-005	8.4700e-003	2.2300e-003	6.0000e-005	2.2900e-003	0.0000	6.2963	6.2963	2.7000e-004	0.0000	6.3021
Total	**2.1500e-003**	**2.7200e-003**	**0.0256**	**1.0000e-004**	**8.4000e-003**	**6.0000e-005**	**8.4700e-003**	**2.2300e-003**	**6.0000e-005**	**2.2900e-003**	**0.0000**	**6.2963**	**6.2963**	**2.7000e-004**	**0.0000**	**6.3021**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e

Category	tons/yr										MT/yr					
Mitigated	0.2335	0.4315	2.2843	7.4700e-003	0.5121	8.2800e-003	0.5203	0.1370	7.6500e-003	0.1446	0.0000	495.2818	495.2818	0.0172	0.0000	495.6425
Unmitigated	0.2335	0.4315	2.2843	7.4700e-003	0.5121	8.2800e-003	0.5203	0.1370	7.6500e-003	0.1446	0.0000	495.2818	495.2818	0.0172	0.0000	495.6425

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Industrial Park	665.58	238.12	69.81	1,361,797	1,361,797
Total	665.58	238.12	69.81	1,361,797	1,361,797

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-...	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Industrial Park	9.50	7.30	7.30	59.00	28.00	13.00	79	19	2

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.512054	0.073411	0.191527	0.131029	0.036174	0.005170	0.012634	0.023592	0.001882	0.002032	0.006515	0.000543	0.003435

5.0 Energy Detail

4.4 Fleet Mix

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	468.4538	468.4538	0.0189	3.9000e-003	470.0591
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	468.4538	468.4538	0.0189	3.9000e-003	470.0591
NaturalGas Mitigated	0.0108	0.0986	0.0828	5.9000e-004		7.4900e-003	7.4900e-003		7.4900e-003	7.4900e-003	0.0000	107.3143	107.3143	2.0600e-003	1.9700e-003	107.9674
NaturalGas Unmitigated	0.0108	0.0986	0.0828	5.9000e-004		7.4900e-003	7.4900e-003		7.4900e-003	7.4900e-003	0.0000	107.3143	107.3143	2.0600e-003	1.9700e-003	107.9674

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					
Industrial Park	2.01099e+006	0.0108	0.0986	0.0828	5.9000e-004		7.4900e-003	7.4900e-003		7.4900e-003	7.4900e-003	0.0000	107.3143	107.3143	2.0600e-003	1.9700e-003	107.9674
Total		**0.0108**	**0.0986**	**0.0828**	**5.9000e-004**		**7.4900e-003**	**7.4900e-003**		**7.4900e-003**	**7.4900e-003**	**0.0000**	**107.3143**	**107.3143**	**2.0600e-003**	**1.9700e-003**	**107.9674**

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					
Industrial Park	2.01099e+006	0.0108	0.0986	0.0828	5.9000e-004		7.4900e-003	7.4900e-003		7.4900e-003	7.4900e-003	0.0000	107.3143	107.3143	2.0600e-003	1.9700e-003	107.9674
Total		**0.0108**	**0.0986**	**0.0828**	**5.9000e-004**		**7.4900e-003**	**7.4900e-003**		**7.4900e-003**	**7.4900e-003**	**0.0000**	**107.3143**	**107.3143**	**2.0600e-003**	**1.9700e-003**	**107.9674**

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Industrial Park	1.43342e+006	468.4538	0.0189	3.9000e-003	470.0591
Total		**468.4538**	**0.0189**	**3.9000e-003**	**470.0591**

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Industrial Park	1.43342e+006	468.4538	0.0189	3.9000e-003	470.0591
Total		**468.4538**	**0.0189**	**3.9000e-003**	**470.0591**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.4013	1.0000e-005	8.8000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.7100e-003	1.7100e-003	0.0000	0.0000	1.8000e-003
Unmitigated	0.4013	1.0000e-005	8.8000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.7100e-003	1.7100e-003	0.0000	0.0000	1.8000e-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	0.0277					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.3735					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	8.0000e-005	1.0000e-005	8.8000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.7100e-003	1.7100e-003	0.0000	0.0000	1.8000e-003
Total	**0.4012**	**1.0000e-005**	**8.8000e-004**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**1.7100e-003**	**1.7100e-003**	**0.0000**	**0.0000**	**1.8000e-003**

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	0.0277					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.3735					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

Landscaping	8.0000e-005	1.0000e-005	8.8000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.7100e-003	1.7100e-003	0.0000	0.0000	1.8000e-003
Total	**0.4012**	**1.0000e-005**	**8.8000e-004**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**1.7100e-003**	**1.7100e-003**	**0.0000**	**0.0000**	**1.8000e-003**

7.0 Water Detail

7.1 Mitigation Measures Water

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	101.1212	0.7243	0.0178	121.8397
Unmitigated	101.1212	0.7244	0.0178	121.8509

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Industrial Park	22.1144 / 0	101.1212	0.7244	0.0178	121.8509
Total		**101.1212**	**0.7244**	**0.0178**	**121.8509**

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Industrial Park	22.1144 / 0	101.1212	0.7243	0.0178	121.8397
Total		**101.1212**	**0.7243**	**0.0178**	**121.8397**

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	24.0707	1.4225	0.0000	53.9439
Unmitigated	24.0707	1.4225	0.0000	53.9439

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e

Land Use	tons	MT/yr			
Industrial Park	118.58	24.0707	1.4225	0.0000	53.9439
Total		**24.0707**	**1.4225**	**0.0000**	**53.9439**

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Industrial Park	118.58	24.0707	1.4225	0.0000	53.9439
Total		**24.0707**	**1.4225**	**0.0000**	**53.9439**

9.0 Operational Offroad

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

10.0 Vegetation

East Otay Mesa Specific Plan Amendment Construction Phase 7

San Diego Air Basin, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Industrial Park	95.63	1000sqft	4.00	95,625.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.6	**Precipitation Freq (Days)**	40
Climate Zone	13			**Operational Year**	2024
Utility Company	San Diego Gas & Electric				
CO2 Intensity (lb/MWhr)	720.49	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	250.00	100.00
tblArchitecturalCoating	EF_Nonresidential_Interior	250.00	50.00
tblAreaCoating	Area_Nonresidential_Interior	143438	0
tblAreaMitigation	UseLowVOCPaintNonresidentialExteriorValue	250	0
tblAreaMitigation	UseLowVOCPaintNonresidentialInteriorValue	250	0
tblAreaMitigation	UseLowVOCPaintResidentialExteriorValue	250	0
tblAreaMitigation	UseLowVOCPaintResidentialInteriorValue	250	0
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00

tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	6.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	8.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstructionPhase	NumDays	18.00	132.00
tblConstructionPhase	NumDays	230.00	262.00
tblConstructionPhase	NumDays	18.00	262.00
tblConstructionPhase	PhaseEndDate	7/3/2025	12/31/2024
tblConstructionPhase	PhaseEndDate	1/1/2026	12/31/2024
tblConstructionPhase	PhaseStartDate	1/1/2025	1/1/2024
tblConstructionPhase	PhaseStartDate	1/1/2025	1/1/2024
tblLandUse	LandUseSquareFeet	95,630.00	95,625.00
tblLandUse	LotAcreage	2.20	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	6.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00

tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	6.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblProjectCharacteristics	OperationalYear	2014	2024

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					
2024	8.9379	41.2480	56.0644	0.0973	0.7059	1.8993	2.6051	0.1894	1.7841	1.9735	0.0000	9,034.1260	9,034.1260	2.0550	0.0000	9,077.2802
Total	**8.9379**	**41.2480**	**56.0644**	**0.0973**	**0.7059**	**1.8993**	**2.6051**	**0.1894**	**1.7841**	**1.9735**	**0.0000**	**9,034.1260**	**9,034.1260**	**2.0550**	**0.0000**	**9,077.2802**

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					
2024	6.5353	44.6639	61.4980	0.0973	0.7059	2.7547	3.4606	0.1894	2.7533	2.9427	0.0000	9,034.1260	9,034.1260	2.0550	0.0000	9,077.2802
Total	**6.5353**	**44.6639**	**61.4980**	**0.0973**	**0.7059**	**2.7547**	**3.4606**	**0.1894**	**2.7533**	**2.9427**	**0.0000**	**9,034.1260**	**9,034.1260**	**2.0550**	**0.0000**	**9,077.2802**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**26.88**	**-8.28**	**-9.69**	**0.00**	**0.00**	**-45.04**	**-32.84**	**0.00**	**-54.32**	**-49.11**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	2.1991	9.0000e-005	9.7500e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005		0.0209	0.0209	5.0000e-005		0.0221
Energy	0.0594	0.5402	0.4537	3.2400e-003		0.0411	0.0411		0.0411	0.0411		648.1849	648.1849	0.0124	0.0119	652.1297
Mobile	1.6566	2.8670	15.7340	0.0550	3.6922	0.0583	3.7505	0.9855	0.0538	1.0394		4,006.9200	4,006.9200	0.1334		4,009.7213
Total	**3.9150**	**3.4072**	**16.1975**	**0.0582**	**3.6922**	**0.0994**	**3.7915**	**0.9855**	**0.0949**	**1.0804**		**4,655.1259**	**4,655.1259**	**0.1459**	**0.0119**	**4,661.8731**

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	2.1991	9.0000e-005	9.7500e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005		0.0209	0.0209	5.0000e-005		0.0221
Energy	0.0594	0.5402	0.4537	3.2400e-003		0.0411	0.0411		0.0411	0.0411		648.1849	648.1849	0.0124	0.0119	652.1297
Mobile	1.6566	2.8670	15.7340	0.0550	3.6922	0.0583	3.7505	0.9855	0.0538	1.0394		4,006.9200	4,006.9200	0.1334		4,009.7213

Total	3.9150	3.4072	16.1975	0.0582	3.6922	0.0994	3.7915	0.9855	0.0949	1.0804		4,655.1259	4,655.1259	0.1459	0.0119	4,661.8731

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

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Building Construction	Building Construction	1/1/2024	12/31/2024	5	262	
2	Paving	Paving	1/1/2024	12/31/2024	5	262	
3	Architectural Coating	Architectural Coating	1/1/2024	12/31/2024	5	132	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 143,438; Non-Residential Outdoor: 47,813 (Architectural Coating –

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Building Construction	Cranes	2	7.00	226	0.29
Building Construction	Forklifts	6	8.00	89	0.20
Building Construction	Generator Sets	2	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	6	7.00	97	0.37
Building Construction	Welders	2	8.00	46	0.45
Paving	Cement and Mortar Mixers	2	6.00	9	0.56
Paving	Pavers	2	8.00	125	0.42
Paving	Paving Equipment	2	6.00	130	0.36

Paving	Rollers	2	6.00	80	0.38
Paving	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Architectural Coating	Air Compressors	2	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
Building Construction	18	40.00	16.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	10	25.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	2	8.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

3.2 Building Construction - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.9306	26.7548	32.2664	0.0537		1.2211	1.2211		1.1487	1.1487		5,090.2309	5,090.2309	1.2019		5,115.4698
Total	**2.9306**	**26.7548**	**32.2664**	**0.0537**		**1.2211**	**1.2211**		**1.1487**	**1.1487**		**5,090.2309**	**5,090.2309**	**1.2019**		**5,115.4698**

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	0.1034	0.5885	1.2296	3.7600e-003	0.1062	0.0134	0.1196	0.0303	0.0123	0.0426		352.4703	352.4703	2.4700e-003		352.5221
Worker	0.0845	0.0942	1.0299	4.1700e-003	0.3286	2.4200e-003	0.3310	0.0872	2.2500e-003	0.0894		279.4284	279.4284	0.0115		279.6704
Total	**0.1879**	**0.6827**	**2.2595**	**7.9300e-003**	**0.4348**	**0.0158**	**0.4506**	**0.1175**	**0.0146**	**0.1320**		**631.8988**	**631.8988**	**0.0140**		**632.1925**

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	1.3424	28.3483	35.6312	0.0537		1.8032	1.8032		1.8032	1.8032	0.0000	5,090.2309	5,090.2309	1.2019		5,115.4698
Total	**1.3424**	**28.3483**	**35.6312**	**0.0537**		**1.8032**	**1.8032**		**1.8032**	**1.8032**	**0.0000**	**5,090.2309**	**5,090.2309**	**1.2019**		**5,115.4698**

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	0.1034	0.5885	1.2296	3.7600e-003	0.1062	0.0134	0.1196	0.0303	0.0123	0.0426		352.4703	352.4703	2.4700e-003		352.5221
Worker	0.0845	0.0942	1.0299	4.1700e-003	0.3286	2.4200e-003	0.3310	0.0872	2.2500e-003	0.0894		279.4284	279.4284	0.0115		279.6704
Total	**0.1879**	**0.6827**	**2.2595**	**7.9300e-003**	**0.4348**	**0.0158**	**0.4506**	**0.1175**	**0.0146**	**0.1320**		**631.8988**	**631.8988**	**0.0140**		**632.1925**

3.3 Paving - 2024

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	1.1911	11.2952	17.0686	0.0263		0.5386	0.5386		0.4972	0.4972		2,518.5718	2,518.5718	0.7979		2,535.3281
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**1.1911**	**11.2952**	**17.0686**	**0.0263**		**0.5386**	**0.5386**		**0.4972**	**0.4972**		**2,518.5718**	**2,518.5718**	**0.7979**		**2,535.3281**

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	0.0528	0.0589	0.6437	2.6100e-003	0.2054	1.5100e-003	0.2069	0.0545	1.4000e-003	0.0559		174.6428	174.6428	7.2000e-003		174.7940
Total	**0.0528**	**0.0589**	**0.6437**	**2.6100e-003**	**0.2054**	**1.5100e-003**	**0.2069**	**0.0545**	**1.4000e-003**	**0.0559**		**174.6428**	**174.6428**	**7.2000e-003**		**174.7940**

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	0.6192	12.8412	19.0928	0.0263		0.7436	0.7436		0.7436	0.7436	0.0000	2,518.5718	2,518.5718	0.7979		2,535.3281
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**0.6192**	**12.8412**	**19.0928**	**0.0263**		**0.7436**	**0.7436**		**0.7436**	**0.7436**	**0.0000**	**2,518.5718**	**2,518.5718**	**0.7979**		**2,535.3281**

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	0.0528	0.0589	0.6437	2.6100e-003	0.2054	1.5100e-003	0.2069	0.0545	1.4000e-003	0.0559		174.6428	174.6428	7.2000e-003		174.7940
Total	**0.0528**	**0.0589**	**0.6437**	**2.6100e-003**	**0.2054**	**1.5100e-003**	**0.2069**	**0.0545**	**1.4000e-003**	**0.0559**		**174.6428**	**174.6428**	**7.2000e-003**		**174.7940**

3.4 Architectural Coating - 2024

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	4.1972					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.3615	2.4376	3.6203	5.9400e-003		0.1218	0.1218		0.1218	0.1218		562.8961	562.8961	0.0317		563.5617
Total	**4.5587**	**2.4376**	**3.6203**	**5.9400e-003**		**0.1218**	**0.1218**		**0.1218**	**0.1218**		**562.8961**	**562.8961**	**0.0317**		**563.5617**

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	0.0169	0.0189	0.2060	8.3000e-004	0.0657	4.8000e-004	0.0662	0.0174	4.5000e-004	0.0179		55.8857	55.8857	2.3000e-003		55.9341
Total	**0.0169**	**0.0189**	**0.2060**	**8.3000e-004**	**0.0657**	**4.8000e-004**	**0.0662**	**0.0174**	**4.5000e-004**	**0.0179**		**55.8857**	**55.8857**	**2.3000e-003**		**55.9341**

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	4.1972					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000

Off-Road	0.1189	2.7140	3.6648	5.9400e-003		0.1902	0.1902		0.1902	0.1902	0.0000	562.8961	562.8961	0.0317		563.5617
Total	**4.3161**	**2.7140**	**3.6648**	**5.9400e-003**		**0.1902**	**0.1902**		**0.1902**	**0.1902**	**0.0000**	**562.8961**	**562.8961**	**0.0317**		**563.5617**

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	0.0169	0.0189	0.2060	8.3000e-004	0.0657	4.8000e-004	0.0662	0.0174	4.5000e-004	0.0179		55.8857	55.8857	2.3000e-003		55.9341
Total	**0.0169**	**0.0189**	**0.2060**	**8.3000e-004**	**0.0657**	**4.8000e-004**	**0.0662**	**0.0174**	**4.5000e-004**	**0.0179**		**55.8857**	**55.8857**	**2.3000e-003**		**55.9341**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	1.6566	2.8670	15.7340	0.0550	3.6922	0.0583	3.7505	0.9855	0.0538	1.0394		4,006.9200	4,006.9200	0.1334		4,009.7213
Unmitigated	1.6566	2.8670	15.7340	0.0550	3.6922	0.0583	3.7505	0.9855	0.0538	1.0394		4,006.9200	4,006.9200	0.1334		4,009.7213

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Industrial Park	665.58	238.12	69.81	1,361,797	1,361,797
Total	665.58	238.12	69.81	1,361,797	1,361,797

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Industrial Park	9.50	7.30	7.30	59.00	28.00	13.00	79	19	2

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.512054	0.073411	0.191527	0.131029	0.036174	0.005170	0.012634	0.023592	0.001882	0.002032	0.006515	0.000543	0.003435

5.0 Energy Detail

4.4 Fleet Mix

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	0.0594	0.5402	0.4537	3.2400e-003		0.0411	0.0411		0.0411	0.0411		648.1849	648.1849	0.0124	0.0119	652.1297
NaturalGas Unmitigated	0.0594	0.5402	0.4537	3.2400e-003		0.0411	0.0411		0.0411	0.0411		648.1849	648.1849	0.0124	0.0119	652.1297

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					
Industrial Park	5509.57	0.0594	0.5402	0.4537	3.2400e-003		0.0411	0.0411		0.0411	0.0411		648.1849	648.1849	0.0124	0.0119	652.1297
Total		**0.0594**	**0.5402**	**0.4537**	**3.2400e-003**		**0.0411**	**0.0411**		**0.0411**	**0.0411**		**648.1849**	**648.1849**	**0.0124**	**0.0119**	**652.1297**

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					
Industrial Park	5.50957	0.0594	0.5402	0.4537	3.2400e-003		0.0411	0.0411		0.0411	0.0411		648.1849	648.1849	0.0124	0.0119	652.1297
Total		**0.0594**	**0.5402**	**0.4537**	**3.2400e-003**		**0.0411**	**0.0411**		**0.0411**	**0.0411**		**648.1849**	**648.1849**	**0.0124**	**0.0119**	**652.1297**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e

Category	lb/day										lb/day					
Mitigated	2.1991	9.0000e-005	9.7500e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005		0.0209	0.0209	5.0000e-005		0.0221
Unmitigated	2.1991	9.0000e-005	9.7500e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005		0.0209	0.0209	5.0000e-005		0.0221

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	0.1518					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	2.0464					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	9.0000e-004	9.0000e-005	9.7500e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005		0.0209	0.0209	5.0000e-005		0.0221
Total	**2.1991**	**9.0000e-005**	**9.7500e-003**	**0.0000**		**3.0000e-005**	**3.0000e-005**		**3.0000e-005**	**3.0000e-005**		**0.0209**	**0.0209**	**5.0000e-005**		**0.0221**

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	0.1518					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	2.0464					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	9.0000e-004	9.0000e-005	9.7500e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005		0.0209	0.0209	5.0000e-005		0.0221

Total	2.1991	9.0000e-005	9.7500e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005		0.0209	0.0209	5.0000e-005		0.0221

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 Vegetation

East Otay Mesa Specific Plan Amendment Construction Phase 8

San Diego Air Basin, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Industrial Park	95.63	1000sqft	4.00	95,625.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.6	**Precipitation Freq (Days)**	40
Climate Zone	13			**Operational Year**	2025
Utility Company	San Diego Gas & Electric				
CO2 Intensity (lb/MWhr)	720.49	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	250.00	100.00
tblArchitecturalCoating	EF_Nonresidential_Interior	250.00	50.00
tblAreaCoating	Area_Nonresidential_Interior	143438	0
tblAreaMitigation	UseLowVOCPaintNonresidentialExteriorValue	250	0
tblAreaMitigation	UseLowVOCPaintNonresidentialInteriorValue	250	0
tblAreaMitigation	UseLowVOCPaintResidentialExteriorValue	250	0
tblAreaMitigation	UseLowVOCPaintResidentialInteriorValue	250	0
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00

tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	6.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	8.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstructionPhase	NumDays	18.00	132.00
tblConstructionPhase	NumDays	230.00	262.00
tblConstructionPhase	NumDays	18.00	262.00
tblConstructionPhase	PhaseEndDate	7/3/2026	12/31/2025
tblConstructionPhase	PhaseEndDate	1/1/2026	12/31/2025
tblConstructionPhase	PhaseEndDate	1/1/2027	12/31/2025
tblConstructionPhase	PhaseStartDate	1/1/2026	1/1/2025
tblConstructionPhase	PhaseStartDate	1/1/2026	1/1/2025
tblLandUse	LandUseSquareFeet	95,630.00	95,625.00
tblLandUse	LotAcreage	2.20	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	6.00

tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	6.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblProjectCharacteristics	OperationalYear	2014	2025

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					
2025	1.1252	4.9838	7.2999	0.0127	0.0900	0.2146	0.3046	0.0242	0.2016	0.2258	0.0000	1,065.7427	1,065.7427	0.2423	0.0000	1,070.8307
Total	**1.1252**	**4.9838**	**7.2999**	**0.0127**	**0.0900**	**0.2146**	**0.3046**	**0.0242**	**0.2016**	**0.2258**	**0.0000**	**1,065.7427**	**1,065.7427**	**0.2423**	**0.0000**	**1,070.8307**

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					
2025	0.8520	5.8312	8.0365	0.0127	0.0900	0.3595	0.4495	0.0242	0.3593	0.3835	0.0000	1,065.7415	1,065.7415	0.2423	0.0000	1,070.8296
Total	**0.8520**	**5.8312**	**8.0365**	**0.0127**	**0.0900**	**0.3595**	**0.4495**	**0.0242**	**0.3593**	**0.3835**	**0.0000**	**1,065.7415**	**1,065.7415**	**0.2423**	**0.0000**	**1,070.8296**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**24.28**	**-17.00**	**-10.09**	**0.00**	**0.00**	**-67.52**	**-47.57**	**0.00**	**-78.25**	**-69.87**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.4013	1.0000e-005	8.8000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.7100e-003	1.7100e-003	0.0000	0.0000	1.8000e-003
Energy	0.0108	0.0986	0.0828	5.9000e-004		7.4900e-003	7.4900e-003		7.4900e-003	7.4900e-003	0.0000	575.7681	575.7681	0.0209	5.8700e-003	578.0265
Mobile	0.2267	0.4179	2.2098	7.4700e-003	0.5121	8.3100e-003	0.5204	0.1370	7.6700e-003	0.1446	0.0000	491.2172	491.2172	0.0167	0.0000	491.5676
Waste						0.0000	0.0000		0.0000	0.0000	24.0707	0.0000	24.0707	1.4225	0.0000	53.9439
Water						0.0000	0.0000		0.0000	0.0000	7.0159	94.1053	101.1212	0.7244	0.0178	121.8509
Total	**0.6388**	**0.5165**	**2.2934**	**8.0600e-003**	**0.5121**	**0.0158**	**0.5279**	**0.1370**	**0.0152**	**0.1521**	**31.0866**	**1,161.0923**	**1,192.1789**	**2.1845**	**0.0237**	**1,245.3906**

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	0.4013	1.0000e-005	8.8000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.7100e-003	1.7100e-003	0.0000	0.0000	1.8000e-003

Energy	0.0108	0.0986	0.0828	5.9000e-004		7.4900e-003	7.4900e-003		7.4900e-003	7.4900e-003	0.0000	575.7681	575.7681	0.0209	5.8700e-003	578.0265
Mobile	0.2267	0.4179	2.2098	7.4700e-003	0.5121	8.3100e-003	0.5204	0.1370	7.6700e-003	0.1446	0.0000	491.2172	491.2172	0.0167	0.0000	491.5676
Waste						0.0000	0.0000		0.0000	0.0000	24.0707	0.0000	24.0707	1.4225	0.0000	53.9439
Water						0.0000	0.0000		0.0000	0.0000	7.0159	94.1053	101.1212	0.7243	0.0178	121.8397
Total	**0.6388**	**0.5165**	**2.2934**	**8.0600e-003**	**0.5121**	**0.0158**	**0.5279**	**0.1370**	**0.0152**	**0.1521**	**31.0866**	**1,161.0923**	**1,192.1789**	**2.1844**	**0.0236**	**1,245.3795**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.01**	**0.13**	**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	Building Construction	Building Construction	1/1/2025	12/31/2025	5	262	
2	Paving	Paving	1/1/2025	12/31/2025	5	262	
3	Architectural Coating	Architectural Coating	1/1/2025	12/31/2025	5	132	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 143,438; Non-Residential Outdoor: 47,813 (Architectural Coating –

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Building Construction	Cranes	2	7.00	226	0.29
Building Construction	Forklifts	6	8.00	89	0.20
Building Construction	Generator Sets	2	8.00	84	0.74

Building Construction	Tractors/Loaders/Backhoes	6	7.00	97	0.37
Building Construction	Welders	2	8.00	46	0.45
Paving	Cement and Mortar Mixers	2	6.00	9	0.56
Paving	Pavers	2	8.00	125	0.42
Paving	Paving Equipment	2	6.00	130	0.36
Paving	Rollers	2	6.00	80	0.38
Paving	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Architectural Coating	Air Compressors	2	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
Building Construction	18	40.00	16.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	10	25.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	2	8.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

3.2 Building Construction - 2025

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	0.3553	3.2389	4.1895	7.0100e-003		0.1370	0.1370		0.1289	0.1289	0.0000	602.8038	602.8038	0.1415	0.0000	605.7749

Total	**0.3553**	**3.2389**	**4.1895**	**7.0100e-003**		**0.1370**	**0.1370**		**0.1289**	**0.1289**	**0.0000**	**602.8038**	**602.8038**	**0.1415**	**0.0000**	**605.7749**

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	0.0140	0.0781	0.1939	4.9000e-004	0.0136	1.7600e-003	0.0153	3.8900e-003	1.6200e-003	5.5000e-003	0.0000	41.5952	41.5952	3.0000e-004	0.0000	41.6014
Worker	0.0103	0.0130	0.1222	5.2000e-004	0.0419	3.2000e-004	0.0422	0.0111	3.0000e-004	0.0114	0.0000	30.9846	30.9846	1.3300e-003	0.0000	31.0124
Total	**0.0243**	**0.0910**	**0.3160**	**1.0100e-003**	**0.0554**	**2.0800e-003**	**0.0575**	**0.0150**	**1.9200e-003**	**0.0169**	**0.0000**	**72.5798**	**72.5798**	**1.6300e-003**	**0.0000**	**72.6138**

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	0.1752	3.6995	4.6499	7.0100e-003		0.2353	0.2353		0.2353	0.2353	0.0000	602.8031	602.8031	0.1415	0.0000	605.7741
Total	**0.1752**	**3.6995**	**4.6499**	**7.0100e-003**		**0.2353**	**0.2353**		**0.2353**	**0.2353**	**0.0000**	**602.8031**	**602.8031**	**0.1415**	**0.0000**	**605.7741**

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	0.0140	0.0781	0.1939	4.9000e-004	0.0136	1.7600e-003	0.0153	3.8900e-003	1.6200e-003	5.5000e-003	0.0000	41.5952	41.5952	3.0000e-004	0.0000	41.6014
Worker	0.0103	0.0130	0.1222	5.2000e-004	0.0419	3.2000e-004	0.0422	0.0111	3.0000e-004	0.0114	0.0000	30.9846	30.9846	1.3300e-003	0.0000	31.0124
Total	**0.0243**	**0.0910**	**0.3160**	**1.0100e-003**	**0.0554**	**2.0800e-003**	**0.0575**	**0.0150**	**1.9200e-003**	**0.0169**	**0.0000**	**72.5798**	**72.5798**	**1.6300e-003**	**0.0000**	**72.6138**

3.3 Paving - 2025

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	0.1447	1.3441	2.2215	3.4300e-003		0.0618	0.0618		0.0571	0.0571	0.0000	298.1569	298.1569	0.0945	0.0000	300.1405
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.1447**	**1.3441**	**2.2215**	**3.4300e-003**		**0.0618**	**0.0618**		**0.0571**	**0.0571**	**0.0000**	**298.1569**	**298.1569**	**0.0945**	**0.0000**	**300.1405**

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	6.4400e-003	8.1200e-003	0.0763	3.2000e-004	0.0262	2.0000e-004	0.0264	6.9500e-003	1.8000e-004	7.1400e-003	0.0000	19.3654	19.3654	8.3000e-004	0.0000	19.3828
Total	**6.4400e-003**	**8.1200e-003**	**0.0763**	**3.2000e-004**	**0.0262**	**2.0000e-004**	**0.0264**	**6.9500e-003**	**1.8000e-004**	**7.1400e-003**	**0.0000**	**19.3654**	**19.3654**	**8.3000e-004**	**0.0000**	**19.3828**

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	0.0808	1.6758	2.4916	3.4300e-003		0.0970	0.0970		0.0970	0.0970	0.0000	298.1565	298.1565	0.0945	0.0000	300.1402
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0808**	**1.6758**	**2.4916**	**3.4300e-003**		**0.0970**	**0.0970**		**0.0970**	**0.0970**	**0.0000**	**298.1565**	**298.1565**	**0.0945**	**0.0000**	**300.1402**

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	6.4400e-003	8.1200e-003	0.0763	3.2000e-004	0.0262	2.0000e-004	0.0264	6.9500e-003	1.8000e-004	7.1400e-003	0.0000	19.3654	19.3654	8.3000e-004	0.0000	19.3828
Total	**6.4400e-003**	**8.1200e-003**	**0.0763**	**3.2000e-004**	**0.0262**	**2.0000e-004**	**0.0264**	**6.9500e-003**	**1.8000e-004**	**7.1400e-003**	**0.0000**	**19.3654**	**19.3654**	**8.3000e-004**	**0.0000**	**19.3828**

3.4 Architectural Coating - 2025

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	0.5477					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0446	0.2990	0.4722	7.8000e-004		0.0134	0.0134		0.0134	0.0134	0.0000	66.6399	66.6399	3.6400e-003	0.0000	66.7163
Total	**0.5923**	**0.2990**	**0.4722**	**7.8000e-004**		**0.0134**	**0.0134**		**0.0134**	**0.0134**	**0.0000**	**66.6399**	**66.6399**	**3.6400e-003**	**0.0000**	**66.7163**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.0600e-003	2.6000e-003	0.0244	1.0000e-004	8.3700e-003	6.0000e-005	8.4400e-003	2.2200e-003	6.0000e-005	2.2800e-003	0.0000	6.1969	6.1969	2.7000e-004	0.0000	6.2025
Total	**2.0600e-003**	**2.6000e-003**	**0.0244**	**1.0000e-004**	**8.3700e-003**	**6.0000e-005**	**8.4400e-003**	**2.2200e-003**	**6.0000e-005**	**2.2800e-003**	**0.0000**	**6.1969**	**6.1969**	**2.7000e-004**	**0.0000**	**6.2025**

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	0.5477					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0155	0.3542	0.4783	7.8000e-004		0.0248	0.0248		0.0248	0.0248	0.0000	66.6398	66.6398	3.6400e-003	0.0000	66.7162
Total	**0.5633**	**0.3542**	**0.4783**	**7.8000e-004**		**0.0248**	**0.0248**		**0.0248**	**0.0248**	**0.0000**	**66.6398**	**66.6398**	**3.6400e-003**	**0.0000**	**66.7162**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.0600e-003	2.6000e-003	0.0244	1.0000e-004	8.3700e-003	6.0000e-005	8.4400e-003	2.2200e-003	6.0000e-005	2.2800e-003	0.0000	6.1969	6.1969	2.7000e-004	0.0000	6.2025
Total	**2.0600e-003**	**2.6000e-003**	**0.0244**	**1.0000e-004**	**8.3700e-003**	**6.0000e-005**	**8.4400e-003**	**2.2200e-003**	**6.0000e-005**	**2.2800e-003**	**0.0000**	**6.1969**	**6.1969**	**2.7000e-004**	**0.0000**	**6.2025**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e

Category	tons/yr										MT/yr					
Mitigated	0.2267	0.4179	2.2098	7.4700e-003	0.5121	8.3100e-003	0.5204	0.1370	7.6700e-003	0.1446	0.0000	491.2172	491.2172	0.0167	0.0000	491.5676
Unmitigated	0.2267	0.4179	2.2098	7.4700e-003	0.5121	8.3100e-003	0.5204	0.1370	7.6700e-003	0.1446	0.0000	491.2172	491.2172	0.0167	0.0000	491.5676

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Industrial Park	665.58	238.12	69.81	1,361,797	1,361,797
Total	665.58	238.12	69.81	1,361,797	1,361,797

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-...	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Industrial Park	9.50	7.30	7.30	59.00	28.00	13.00	79	19	2

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.511923	0.073395	0.191568	0.130918	0.036235	0.005199	0.012665	0.023708	0.001889	0.002027	0.006511	0.000534	0.003431

5.0 Energy Detail

4.4 Fleet Mix

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	468.4538	468.4538	0.0189	3.9000e-003	470.0591
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	468.4538	468.4538	0.0189	3.9000e-003	470.0591
NaturalGas Mitigated	0.0108	0.0986	0.0828	5.9000e-004		7.4900e-003	7.4900e-003		7.4900e-003	7.4900e-003	0.0000	107.3143	107.3143	2.0600e-003	1.9700e-003	107.9674
NaturalGas Unmitigated	0.0108	0.0986	0.0828	5.9000e-004		7.4900e-003	7.4900e-003		7.4900e-003	7.4900e-003	0.0000	107.3143	107.3143	2.0600e-003	1.9700e-003	107.9674

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					
Industrial Park	2.01099e+006	0.0108	0.0986	0.0828	5.9000e-004		7.4900e-003	7.4900e-003		7.4900e-003	7.4900e-003	0.0000	107.3143	107.3143	2.0600e-003	1.9700e-003	107.9674
Total		**0.0108**	**0.0986**	**0.0828**	**5.9000e-004**		**7.4900e-003**	**7.4900e-003**		**7.4900e-003**	**7.4900e-003**	**0.0000**	**107.3143**	**107.3143**	**2.0600e-003**	**1.9700e-003**	**107.9674**

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					
Industrial Park	2.01099e+006	0.0108	0.0986	0.0828	5.9000e-004		7.4900e-003	7.4900e-003		7.4900e-003	7.4900e-003	0.0000	107.3143	107.3143	2.0600e-003	1.9700e-003	107.9674
Total		**0.0108**	**0.0986**	**0.0828**	**5.9000e-004**		**7.4900e-003**	**7.4900e-003**		**7.4900e-003**	**7.4900e-003**	**0.0000**	**107.3143**	**107.3143**	**2.0600e-003**	**1.9700e-003**	**107.9674**

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Industrial Park	1.43342e+006	468.4538	0.0189	3.9000e-003	470.0591
Total		**468.4538**	**0.0189**	**3.9000e-003**	**470.0591**

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Industrial Park	1.43342e+006	468.4538	0.0189	3.9000e-003	470.0591
Total		**468.4538**	**0.0189**	**3.9000e-003**	**470.0591**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.4013	1.0000e-005	8.8000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.7100e-003	1.7100e-003	0.0000	0.0000	1.8000e-003
Unmitigated	0.4013	1.0000e-005	8.8000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.7100e-003	1.7100e-003	0.0000	0.0000	1.8000e-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	0.0277					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.3735					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	8.0000e-005	1.0000e-005	8.8000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.7100e-003	1.7100e-003	0.0000	0.0000	1.8000e-003
Total	**0.4012**	**1.0000e-005**	**8.8000e-004**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**1.7100e-003**	**1.7100e-003**	**0.0000**	**0.0000**	**1.8000e-003**

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	0.0277					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.3735					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

Landscaping	8.0000e-005	1.0000e-005	8.8000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.7100e-003	1.7100e-003	0.0000	0.0000	1.8000e-003
Total	**0.4012**	**1.0000e-005**	**8.8000e-004**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**1.7100e-003**	**1.7100e-003**	**0.0000**	**0.0000**	**1.8000e-003**

7.0 Water Detail

7.1 Mitigation Measures Water

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	101.1212	0.7243	0.0178	121.8397
Unmitigated	101.1212	0.7244	0.0178	121.8509

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Industrial Park	22.1144 / 0	101.1212	0.7244	0.0178	121.8509
Total		**101.1212**	**0.7244**	**0.0178**	**121.8509**

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Industrial Park	22.1144 / 0	101.1212	0.7243	0.0178	121.8397
Total		**101.1212**	**0.7243**	**0.0178**	**121.8397**

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	24.0707	1.4225	0.0000	53.9439
Unmitigated	24.0707	1.4225	0.0000	53.9439

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e

Land Use	tons	MT/yr			
Industrial Park	118.58	24.0707	1.4225	0.0000	53.9439
Total		**24.0707**	**1.4225**	**0.0000**	**53.9439**

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Industrial Park	118.58	24.0707	1.4225	0.0000	53.9439
Total		**24.0707**	**1.4225**	**0.0000**	**53.9439**

9.0 Operational Offroad

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

10.0 Vegetation

East Otay Mesa Specific Plan Amendment Construction Phase 8

San Diego Air Basin, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Industrial Park	95.63	1000sqft	4.00	95,625.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.6	**Precipitation Freq (Days)**	40
Climate Zone	13			**Operational Year**	2025
Utility Company	San Diego Gas & Electric				
CO2 Intensity (lb/MWhr)	720.49	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	250.00	100.00
tblArchitecturalCoating	EF_Nonresidential_Interior	250.00	50.00
tblAreaCoating	Area_Nonresidential_Interior	143438	0
tblAreaMitigation	UseLowVOCPaintNonresidentialExteriorValue	250	0
tblAreaMitigation	UseLowVOCPaintNonresidentialInteriorValue	250	0
tblAreaMitigation	UseLowVOCPaintResidentialExteriorValue	250	0
tblAreaMitigation	UseLowVOCPaintResidentialInteriorValue	250	0
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00

tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	6.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	8.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstructionPhase	NumDays	18.00	132.00
tblConstructionPhase	NumDays	230.00	262.00
tblConstructionPhase	NumDays	18.00	262.00
tblConstructionPhase	PhaseEndDate	7/3/2026	12/31/2025
tblConstructionPhase	PhaseEndDate	1/1/2026	12/31/2025
tblConstructionPhase	PhaseEndDate	1/1/2027	12/31/2025
tblConstructionPhase	PhaseStartDate	1/1/2026	1/1/2025
tblConstructionPhase	PhaseStartDate	1/1/2026	1/1/2025
tblLandUse	LandUseSquareFeet	95,630.00	95,625.00
tblLandUse	LotAcreage	2.20	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	6.00

tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	6.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblProjectCharacteristics	OperationalYear	2014	2025

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					
2025	8.6199	38.1574	55.7487	0.0973	0.7059	1.6444	2.3503	0.1894	1.5446	1.7340	0.0000	9,029.5135	9,029.5135	2.0465	0.0000	9,072.4910
Total	**8.6199**	**38.1574**	**55.7487**	**0.0973**	**0.7059**	**1.6444**	**2.3503**	**0.1894**	**1.5446**	**1.7340**	**0.0000**	**9,029.5135**	**9,029.5135**	**2.0465**	**0.0000**	**9,072.4910**

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					
2025	6.5268	44.6508	61.3931	0.0973	0.7059	2.7548	3.4606	0.1894	2.7534	2.9427	0.0000	9,029.5135	9,029.5135	2.0465	0.0000	9,072.4910
Total	**6.5268**	**44.6508**	**61.3931**	**0.0973**	**0.7059**	**2.7548**	**3.4606**	**0.1894**	**2.7534**	**2.9427**	**0.0000**	**9,029.5135**	**9,029.5135**	**2.0465**	**0.0000**	**9,072.4910**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**24.28**	**-17.02**	**-10.12**	**0.00**	**0.00**	**-67.53**	**-47.24**	**0.00**	**-78.25**	**-69.71**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	2.1991	9.0000e-005	9.7400e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005		0.0209	0.0209	5.0000e-005		0.0221
Energy	0.0594	0.5402	0.4537	3.2400e-003		0.0411	0.0411		0.0411	0.0411		648.1849	648.1849	0.0124	0.0119	652.1297
Mobile	1.6095	2.7782	15.2285	0.0550	3.6922	0.0585	3.7507	0.9855	0.0540	1.0395		3,973.6008	3,973.6008	0.1296		3,976.3214
Total	**3.8680**	**3.3184**	**15.6919**	**0.0582**	**3.6922**	**0.0996**	**3.7918**	**0.9855**	**0.0951**	**1.0806**		**4,621.8067**	**4,621.8067**	**0.1420**	**0.0119**	**4,628.4732**

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	2.1991	9.0000e-005	9.7400e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005		0.0209	0.0209	5.0000e-005		0.0221
Energy	0.0594	0.5402	0.4537	3.2400e-003		0.0411	0.0411		0.0411	0.0411		648.1849	648.1849	0.0124	0.0119	652.1297
Mobile	1.6095	2.7782	15.2285	0.0550	3.6922	0.0585	3.7507	0.9855	0.0540	1.0395		3,973.6008	3,973.6008	0.1296		3,976.3214

Total	3.8680	3.3184	15.6919	0.0582	3.6922	0.0996	3.7918	0.9855	0.0951	1.0806		4,621.8067	4,621.8067	0.1420	0.0119	4,628.4732

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

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Building Construction	Building Construction	1/1/2025	12/31/2025	5	262	
2	Paving	Paving	1/1/2025	12/31/2025	5	262	
3	Architectural Coating	Architectural Coating	1/1/2025	12/31/2025	5	132	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 143,438; Non-Residential Outdoor: 47,813 (Architectural Coating –

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Building Construction	Cranes	2	7.00	226	0.29
Building Construction	Forklifts	6	8.00	89	0.20
Building Construction	Generator Sets	2	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	6	7.00	97	0.37
Building Construction	Welders	2	8.00	46	0.45
Paving	Cement and Mortar Mixers	2	6.00	9	0.56
Paving	Pavers	2	8.00	125	0.42
Paving	Paving Equipment	2	6.00	130	0.36

Paving	Rollers	2	6.00	80	0.38
Paving	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Architectural Coating	Air Compressors	2	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
Building Construction	18	40.00	16.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	10	25.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	2	8.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

3.2 Building Construction - 2025

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.7229	24.8194	32.1036	0.0537		1.0500	1.0500		0.9878	0.9878		5,091.7811	5,091.7811	1.1951		5,116.8771
Total	**2.7229**	**24.8194**	**32.1036**	**0.0537**		**1.0500**	**1.0500**		**0.9878**	**0.9878**		**5,091.7811**	**5,091.7811**	**1.1951**		**5,116.8771**

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	0.1009	0.5825	1.2004	3.7600e-003	0.1062	0.0134	0.1196	0.0303	0.0123	0.0426		352.5002	352.5002	2.4700e-003		352.5521
Worker	0.0812	0.0904	0.9884	4.1700e-003	0.3286	2.4400e-003	0.3310	0.0872	2.2700e-003	0.0894		276.0853	276.0853	0.0112		276.3204
Total	**0.1821**	**0.6728**	**2.1888**	**7.9300e-003**	**0.4348**	**0.0159**	**0.4506**	**0.1175**	**0.0146**	**0.1321**		**628.5855**	**628.5855**	**0.0137**		**628.8725**

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	1.3424	28.3483	35.6312	0.0537		1.8032	1.8032		1.8032	1.8032	0.0000	5,091.7811	5,091.7811	1.1951		5,116.8771
Total	**1.3424**	**28.3483**	**35.6312**	**0.0537**		**1.8032**	**1.8032**		**1.8032**	**1.8032**	**0.0000**	**5,091.7811**	**5,091.7811**	**1.1951**		**5,116.8771**

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	0.1009	0.5825	1.2004	3.7600e-003	0.1062	0.0134	0.1196	0.0303	0.0123	0.0426		352.5002	352.5002	2.4700e-003		352.5521
Worker	0.0812	0.0904	0.9884	4.1700e-003	0.3286	2.4400e-003	0.3310	0.0872	2.2700e-003	0.0894		276.0853	276.0853	0.0112		276.3204
Total	**0.1821**	**0.6728**	**2.1888**	**7.9300e-003**	**0.4348**	**0.0159**	**0.4506**	**0.1175**	**0.0146**	**0.1321**		**628.5855**	**628.5855**	**0.0137**		**628.8725**

3.3 Paving - 2025

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	1.1090	10.2997	17.0226	0.0263		0.4735	0.4735		0.4373	0.4373		2,518.4804	2,518.4804	0.7979		2,535.2361
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**1.1090**	**10.2997**	**17.0226**	**0.0263**		**0.4735**	**0.4735**		**0.4373**	**0.4373**		**2,518.4804**	**2,518.4804**	**0.7979**		**2,535.2361**

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	0.0565	0.6178	2.6000e-003	0.2054	1.5300e-003	0.2069	0.0545	1.4200e-003	0.0559		172.5533	172.5533	7.0000e-003		172.7003
Total	**0.0508**	**0.0565**	**0.6178**	**2.6000e-003**	**0.2054**	**1.5300e-003**	**0.2069**	**0.0545**	**1.4200e-003**	**0.0559**		**172.5533**	**172.5533**	**7.0000e-003**		**172.7003**

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	0.6192	12.8412	19.0928	0.0263		0.7436	0.7436		0.7436	0.7436	0.0000	2,518.4804	2,518.4804	0.7979		2,535.2361
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**0.6192**	**12.8412**	**19.0928**	**0.0263**		**0.7436**	**0.7436**		**0.7436**	**0.7436**	**0.0000**	**2,518.4804**	**2,518.4804**	**0.7979**		**2,535.2361**

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	0.0565	0.6178	2.6000e-003	0.2054	1.5300e-003	0.2069	0.0545	1.4200e-003	0.0559		172.5533	172.5533	7.0000e-003		172.7003
Total	**0.0508**	**0.0565**	**0.6178**	**2.6000e-003**	**0.2054**	**1.5300e-003**	**0.2069**	**0.0545**	**1.4200e-003**	**0.0559**		**172.5533**	**172.5533**	**7.0000e-003**		**172.7003**

3.4 Architectural Coating - 2025

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	4.1972					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.3417	2.2910	3.6183	5.9400e-003		0.1030	0.1030		0.1030	0.1030		562.8961	562.8961	0.0307		563.5409
Total	**4.5389**	**2.2910**	**3.6183**	**5.9400e-003**		**0.1030**	**0.1030**		**0.1030**	**0.1030**		**562.8961**	**562.8961**	**0.0307**		**563.5409**

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	0.0163	0.0181	0.1977	8.3000e-004	0.0657	4.9000e-004	0.0662	0.0174	4.5000e-004	0.0179		55.2171	55.2171	2.2400e-003		55.2641
Total	**0.0163**	**0.0181**	**0.1977**	**8.3000e-004**	**0.0657**	**4.9000e-004**	**0.0662**	**0.0174**	**4.5000e-004**	**0.0179**		**55.2171**	**55.2171**	**2.2400e-003**		**55.2641**

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	4.1972					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000

Off-Road	0.1189	2.7140	3.6648	5.9400e-003		0.1902	0.1902		0.1902	0.1902	0.0000	562.8961	562.8961	0.0307		563.5409
Total	**4.3161**	**2.7140**	**3.6648**	**5.9400e-003**		**0.1902**	**0.1902**		**0.1902**	**0.1902**	**0.0000**	**562.8961**	**562.8961**	**0.0307**		**563.5409**

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	0.0163	0.0181	0.1977	8.3000e-004	0.0657	4.9000e-004	0.0662	0.0174	4.5000e-004	0.0179		55.2171	55.2171	2.2400e-003		55.2641
Total	**0.0163**	**0.0181**	**0.1977**	**8.3000e-004**	**0.0657**	**4.9000e-004**	**0.0662**	**0.0174**	**4.5000e-004**	**0.0179**		**55.2171**	**55.2171**	**2.2400e-003**		**55.2641**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	1.6095	2.7782	15.2285	0.0550	3.6922	0.0585	3.7507	0.9855	0.0540	1.0395		3,973.6008	3,973.6008	0.1296		3,976.3214
Unmitigated	1.6095	2.7782	15.2285	0.0550	3.6922	0.0585	3.7507	0.9855	0.0540	1.0395		3,973.6008	3,973.6008	0.1296		3,976.3214

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Industrial Park	665.58	238.12	69.81	1,361,797	1,361,797
Total	665.58	238.12	69.81	1,361,797	1,361,797

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Industrial Park	9.50	7.30	7.30	59.00	28.00	13.00	79	19	2

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.511923	0.073395	0.191568	0.130918	0.036235	0.005199	0.012665	0.023708	0.001889	0.002027	0.006511	0.000534	0.003431

5.0 Energy Detail

4.4 Fleet Mix

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	0.0594	0.5402	0.4537	3.2400e-003		0.0411	0.0411		0.0411	0.0411		648.1849	648.1849	0.0124	0.0119	652.1297
NaturalGas Unmitigated	0.0594	0.5402	0.4537	3.2400e-003		0.0411	0.0411		0.0411	0.0411		648.1849	648.1849	0.0124	0.0119	652.1297

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					
Industrial Park	5509.57	0.0594	0.5402	0.4537	3.2400e-003		0.0411	0.0411		0.0411	0.0411		648.1849	648.1849	0.0124	0.0119	652.1297
Total		**0.0594**	**0.5402**	**0.4537**	**3.2400e-003**		**0.0411**	**0.0411**		**0.0411**	**0.0411**		**648.1849**	**648.1849**	**0.0124**	**0.0119**	**652.1297**

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					
Industrial Park	5.50957	0.0594	0.5402	0.4537	3.2400e-003		0.0411	0.0411		0.0411	0.0411		648.1849	648.1849	0.0124	0.0119	652.1297
Total		**0.0594**	**0.5402**	**0.4537**	**3.2400e-003**		**0.0411**	**0.0411**		**0.0411**	**0.0411**		**648.1849**	**648.1849**	**0.0124**	**0.0119**	**652.1297**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e

Category	lb/day										lb/day					
Mitigated	2.1991	9.0000e-005	9.7400e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005		0.0209	0.0209	5.0000e-005		0.0221
Unmitigated	2.1991	9.0000e-005	9.7400e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005		0.0209	0.0209	5.0000e-005		0.0221

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	0.1518					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	2.0464					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	9.0000e-004	9.0000e-005	9.7400e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005		0.0209	0.0209	5.0000e-005		0.0221
Total	**2.1991**	**9.0000e-005**	**9.7400e-003**	**0.0000**		**3.0000e-005**	**3.0000e-005**		**3.0000e-005**	**3.0000e-005**		**0.0209**	**0.0209**	**5.0000e-005**		**0.0221**

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	0.1518					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	2.0464					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	9.0000e-004	9.0000e-005	9.7400e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005		0.0209	0.0209	5.0000e-005		0.0221

Total	2.1991	9.0000e-005	9.7400e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005		0.0209	0.0209	5.0000e-005		0.0221

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 Vegetation

East Otay Mesa Specific Plan Amendment Construction Phase 9

San Diego Air Basin, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Industrial Park	47.81	1000sqft	4.00	47,813.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.6	**Precipitation Freq (Days)**	40
Climate Zone	13			**Operational Year**	2026
Utility Company	San Diego Gas & Electric				
CO2 Intensity (lb/MWhr)	720.49	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	250.00	100.00
tblArchitecturalCoating	EF_Nonresidential_Interior	250.00	50.00
tblAreaCoating	Area_Nonresidential_Interior	71720	0
tblAreaMitigation	UseLowVOCPaintNonresidentialExteriorValue	250	0
tblAreaMitigation	UseLowVOCPaintNonresidentialInteriorValue	250	0
tblAreaMitigation	UseLowVOCPaintResidentialExteriorValue	250	0
tblAreaMitigation	UseLowVOCPaintResidentialInteriorValue	250	0
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00

tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	6.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	8.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstructionPhase	NumDays	18.00	132.00
tblConstructionPhase	NumDays	230.00	262.00
tblConstructionPhase	NumDays	18.00	262.00
tblConstructionPhase	PhaseEndDate	7/5/2027	12/31/2026
tblConstructionPhase	PhaseEndDate	1/1/2027	12/31/2026
tblConstructionPhase	PhaseEndDate	1/3/2028	12/31/2026
tblConstructionPhase	PhaseStartDate	1/1/2027	1/1/2026
tblConstructionPhase	PhaseStartDate	1/1/2027	1/1/2026
tblLandUse	LandUseSquareFeet	47,810.00	47,813.00
tblLandUse	LotAcreage	1.10	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00

tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	6.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	6.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblProjectCharacteristics	OperationalYear	2014	2026

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					
2026	0.8376	4.9358	7.1229	0.0121	0.0581	0.2135	0.2716	0.0156	0.2006	0.2162	0.0000	1,025.9579	1,025.9579	0.2413	0.0000	1,031.0253
Total	**0.8376**	**4.9358**	**7.1229**	**0.0121**	**0.0581**	**0.2135**	**0.2716**	**0.0156**	**0.2006**	**0.2162**	**0.0000**	**1,025.9579**	**1,025.9579**	**0.2413**	**0.0000**	**1,031.0253**

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					
2026	0.5644	5.7832	7.8595	0.0121	0.0581	0.3584	0.4165	0.0156	0.3583	0.3739	0.0000	1,025.9567	1,025.9567	0.2413	0.0000	1,031.0242

Total	**0.5644**	**5.7832**	**7.8595**	**0.0121**	**0.0581**	**0.3584**	**0.4165**	**0.0156**	**0.3583**	**0.3739**	**0.0000**	**1,025.9567**	**1,025.9567**	**0.2413**	**0.0000**	**1,031.0242**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**32.61**	**-17.17**	**-10.34**	**0.00**	**0.00**	**-67.87**	**-53.36**	**0.00**	**-78.64**	**-72.97**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.2006	0.0000	4.4000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	8.5000e-004	8.5000e-004	0.0000	0.0000	9.0000e-004
Energy	5.4200e-003	0.0493	0.0414	3.0000e-004		3.7500e-003	3.7500e-003		3.7500e-003	3.7500e-003	0.0000	287.8871	287.8871	0.0105	2.9300e-003	289.0163
Mobile	0.1106	0.2022	1.0772	3.7400e-003	0.2560	4.1400e-003	0.2602	0.0685	3.8200e-003	0.0723	0.0000	243.8269	243.8269	8.1500e-003	0.0000	243.9980
Waste						0.0000	0.0000		0.0000	0.0000	12.0333	0.0000	12.0333	0.7112	0.0000	26.9674
Water						0.0000	0.0000		0.0000	0.0000	3.5076	47.0477	50.5553	0.3622	8.9000e-003	60.9191
Total	**0.3166**	**0.2515**	**1.1191**	**4.0400e-003**	**0.2560**	**7.8900e-003**	**0.2639**	**0.0685**	**7.5700e-003**	**0.0760**	**15.5409**	**578.7625**	**594.3034**	**1.0919**	**0.0118**	**620.9016**

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	0.2006	0.0000	4.4000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	8.5000e-004	8.5000e-004	0.0000	0.0000	9.0000e-004
Energy	5.4200e-003	0.0493	0.0414	3.0000e-004		3.7500e-003	3.7500e-003		3.7500e-003	3.7500e-003	0.0000	287.8871	287.8871	0.0105	2.9300e-003	289.0163
Mobile	0.1106	0.2022	1.0772	3.7400e-003	0.2560	4.1400e-003	0.2602	0.0685	3.8200e-003	0.0723	0.0000	243.8269	243.8269	8.1500e-003	0.0000	243.9980
Waste						0.0000	0.0000		0.0000	0.0000	12.0333	0.0000	12.0333	0.7112	0.0000	26.9674
Water						0.0000	0.0000		0.0000	0.0000	3.5076	47.0477	50.5553	0.3621	8.8800e-003	60.9135
Total	**0.3166**	**0.2515**	**1.1191**	**4.0400e-003**	**0.2560**	**7.8900e-003**	**0.2639**	**0.0685**	**7.5700e-003**	**0.0760**	**15.5409**	**578.7625**	**594.3034**	**1.0919**	**0.0118**	**620.8960**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.01**	**0.17**	**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	Building Construction	Building Construction	1/1/2026	12/31/2026	5	262	
2	Paving	Paving	1/1/2026	12/31/2026	5	262	
3	Architectural Coating	Architectural Coating	1/1/2026	12/31/2026	5	132	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 71,720; Non-Residential Outdoor: 23,907 (Architectural Coating –

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Building Construction	Cranes	2	7.00	226	0.29
Building Construction	Forklifts	6	8.00	89	0.20

Building Construction	Generator Sets	2	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	6	7.00	97	0.37
Building Construction	Welders	2	8.00	46	0.45
Paving	Cement and Mortar Mixers	2	6.00	9	0.56
Paving	Pavers	2	8.00	125	0.42
Paving	Paving Equipment	2	6.00	130	0.36
Paving	Rollers	2	6.00	80	0.38
Paving	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Architectural Coating	Air Compressors	2	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
Building Construction	18	20.00	8.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	10	25.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	2	4.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

3.2 Building Construction - 2026

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	0.3553	3.2389	4.1895	7.0100e-003		0.1370	0.1370		0.1289	0.1289	0.0000	602.8038	602.8038	0.1415	0.0000	605.7749

Total	**0.3553**	**3.2389**	**4.1895**	**7.0100e-003**		**0.1370**	**0.1370**		**0.1289**	**0.1289**	**0.0000**	**602.8038**	**602.8038**	**0.1415**	**0.0000**	**605.7749**

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	6.8200e-003	0.0384	0.0951	2.4000e-004	6.7900e-003	8.7000e-004	7.6600e-003	1.9400e-003	8.0000e-004	2.7400e-003	0.0000	20.7993	20.7993	1.5000e-004	0.0000	20.8024
Worker	4.9800e-003	6.2800e-003	0.0590	2.6000e-004	0.0209	1.6000e-004	0.0211	5.5600e-003	1.5000e-004	5.7100e-003	0.0000	15.3298	15.3298	6.5000e-004	0.0000	15.3434
Total	**0.0118**	**0.0447**	**0.1541**	**5.0000e-004**	**0.0277**	**1.0300e-003**	**0.0288**	**7.5000e-003**	**9.5000e-004**	**8.4500e-003**	**0.0000**	**36.1291**	**36.1291**	**8.0000e-004**	**0.0000**	**36.1458**

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	0.1752	3.6995	4.6499	7.0100e-003		0.2353	0.2353		0.2353	0.2353	0.0000	602.8031	602.8031	0.1415	0.0000	605.7741
Total	**0.1752**	**3.6995**	**4.6499**	**7.0100e-003**		**0.2353**	**0.2353**		**0.2353**	**0.2353**	**0.0000**	**602.8031**	**602.8031**	**0.1415**	**0.0000**	**605.7741**

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	6.8200e-003	0.0384	0.0951	2.4000e-004	6.7900e-003	8.7000e-004	7.6600e-003	1.9400e-003	8.0000e-004	2.7400e-003	0.0000	20.7993	20.7993	1.5000e-004	0.0000	20.8024
Worker	4.9800e-003	6.2800e-003	0.0590	2.6000e-004	0.0209	1.6000e-004	0.0211	5.5600e-003	1.5000e-004	5.7100e-003	0.0000	15.3298	15.3298	6.5000e-004	0.0000	15.3434
Total	**0.0118**	**0.0447**	**0.1541**	**5.0000e-004**	**0.0277**	**1.0300e-003**	**0.0288**	**7.5000e-003**	**9.5000e-004**	**8.4500e-003**	**0.0000**	**36.1291**	**36.1291**	**8.0000e-004**	**0.0000**	**36.1458**

3.3 Paving - 2026

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	0.1447	1.3441	2.2215	3.4300e-003		0.0618	0.0618		0.0571	0.0571	0.0000	298.1569	298.1569	0.0945	0.0000	300.1405
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.1447**	**1.3441**	**2.2215**	**3.4300e-003**		**0.0618**	**0.0618**		**0.0571**	**0.0571**	**0.0000**	**298.1569**	**298.1569**	**0.0945**	**0.0000**	**300.1405**

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	6.2200e-003	7.8500e-003	0.0738	3.2000e-004	0.0262	2.0000e-004	0.0264	6.9500e-003	1.9000e-004	7.1400e-003	0.0000	19.1622	19.1622	8.1000e-004	0.0000	19.1792
Total	**6.2200e-003**	**7.8500e-003**	**0.0738**	**3.2000e-004**	**0.0262**	**2.0000e-004**	**0.0264**	**6.9500e-003**	**1.9000e-004**	**7.1400e-003**	**0.0000**	**19.1622**	**19.1622**	**8.1000e-004**	**0.0000**	**19.1792**

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	0.0808	1.6758	2.4916	3.4300e-003		0.0970	0.0970		0.0970	0.0970	0.0000	298.1565	298.1565	0.0945	0.0000	300.1402
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0808**	**1.6758**	**2.4916**	**3.4300e-003**		**0.0970**	**0.0970**		**0.0970**	**0.0970**	**0.0000**	**298.1565**	**298.1565**	**0.0945**	**0.0000**	**300.1402**

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	6.2200e-003	7.8500e-003	0.0738	3.2000e-004	0.0262	2.0000e-004	0.0264	6.9500e-003	1.9000e-004	7.1400e-003	0.0000	19.1622	19.1622	8.1000e-004	0.0000	19.1792
Total	**6.2200e-003**	**7.8500e-003**	**0.0738**	**3.2000e-004**	**0.0262**	**2.0000e-004**	**0.0264**	**6.9500e-003**	**1.9000e-004**	**7.1400e-003**	**0.0000**	**19.1622**	**19.1622**	**8.1000e-004**	**0.0000**	**19.1792**

3.4 Architectural Coating - 2026

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	0.2739					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0446	0.2990	0.4722	7.8000e-004		0.0134	0.0134		0.0134	0.0134	0.0000	66.6399	66.6399	3.6400e-003	0.0000	66.7163
Total	**0.3185**	**0.2990**	**0.4722**	**7.8000e-004**		**0.0134**	**0.0134**		**0.0134**	**0.0134**	**0.0000**	**66.6399**	**66.6399**	**3.6400e-003**	**0.0000**	**66.7163**

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	1.0000e-003	1.2600e-003	0.0118	5.0000e-005	4.1900e-003	3.0000e-005	4.2200e-003	1.1100e-003	3.0000e-005	1.1400e-003	0.0000	3.0660	3.0660	1.3000e-004	0.0000	3.0687
Total	**1.0000e-003**	**1.2600e-003**	**0.0118**	**5.0000e-005**	**4.1900e-003**	**3.0000e-005**	**4.2200e-003**	**1.1100e-003**	**3.0000e-005**	**1.1400e-003**	**0.0000**	**3.0660**	**3.0660**	**1.3000e-004**	**0.0000**	**3.0687**

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	0.2739					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0155	0.3542	0.4783	7.8000e-004		0.0248	0.0248		0.0248	0.0248	0.0000	66.6398	66.6398	3.6400e-003	0.0000	66.7162
Total	**0.2894**	**0.3542**	**0.4783**	**7.8000e-004**		**0.0248**	**0.0248**		**0.0248**	**0.0248**	**0.0000**	**66.6398**	**66.6398**	**3.6400e-003**	**0.0000**	**66.7162**

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	1.0000e-003	1.2600e-003	0.0118	5.0000e-005	4.1900e-003	3.0000e-005	4.2200e-003	1.1100e-003	3.0000e-005	1.1400e-003	0.0000	3.0660	3.0660	1.3000e-004	0.0000	3.0687
Total	**1.0000e-003**	**1.2600e-003**	**0.0118**	**5.0000e-005**	**4.1900e-003**	**3.0000e-005**	**4.2200e-003**	**1.1100e-003**	**3.0000e-005**	**1.1400e-003**	**0.0000**	**3.0660**	**3.0660**	**1.3000e-004**	**0.0000**	**3.0687**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e

Category	tons/yr										MT/yr					
Mitigated	0.1106	0.2022	1.0772	3.7400e-003	0.2560	4.1400e-003	0.2602	0.0685	3.8200e-003	0.0723	0.0000	243.8269	243.8269	8.1500e-003	0.0000	243.9980
Unmitigated	0.1106	0.2022	1.0772	3.7400e-003	0.2560	4.1400e-003	0.2602	0.0685	3.8200e-003	0.0723	0.0000	243.8269	243.8269	8.1500e-003	0.0000	243.9980

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Industrial Park	332.76	119.05	34.90	680,827	680,827
Total	332.76	119.05	34.90	680,827	680,827

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-...	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Industrial Park	9.50	7.30	7.30	59.00	28.00	13.00	79	19	2

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.511808	0.073429	0.191562	0.130831	0.036257	0.005206	0.012696	0.023829	0.001896	0.002021	0.006511	0.000525	0.003428

5.0 Energy Detail

4.4 Fleet Mix

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	234.2294	234.2294	9.4300e-003	1.9500e-003	235.0320
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	234.2294	234.2294	9.4300e-003	1.9500e-003	235.0320
NaturalGas Mitigated	5.4200e-003	0.0493	0.0414	3.0000e-004		3.7500e-003	3.7500e-003		3.7500e-003	3.7500e-003	0.0000	53.6577	53.6577	1.0300e-003	9.8000e-004	53.9843
NaturalGas Unmitigated	5.4200e-003	0.0493	0.0414	3.0000e-004		3.7500e-003	3.7500e-003		3.7500e-003	3.7500e-003	0.0000	53.6577	53.6577	1.0300e-003	9.8000e-004	53.9843

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					
Industrial Park	1.00551e+006	5.4200e-003	0.0493	0.0414	3.0000e-004		3.7500e-003	3.7500e-003		3.7500e-003	3.7500e-003	0.0000	53.6577	53.6577	1.0300e-003	9.8000e-004	53.9843
Total		**5.4200e-003**	**0.0493**	**0.0414**	**3.0000e-004**		**3.7500e-003**	**3.7500e-003**		**3.7500e-003**	**3.7500e-003**	**0.0000**	**53.6577**	**53.6577**	**1.0300e-003**	**9.8000e-004**	**53.9843**

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					
Industrial Park	1.00551e+006	5.4200e-003	0.0493	0.0414	3.0000e-004		3.7500e-003	3.7500e-003		3.7500e-003	3.7500e-003	0.0000	53.6577	53.6577	1.0300e-003	9.8000e-004	53.9843
Total		**5.4200e-003**	**0.0493**	**0.0414**	**3.0000e-004**		**3.7500e-003**	**3.7500e-003**		**3.7500e-003**	**3.7500e-003**	**0.0000**	**53.6577**	**53.6577**	**1.0300e-003**	**9.8000e-004**	**53.9843**

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Industrial Park	716717	234.2294	9.4300e-003	1.9500e-003	235.0320
Total		**234.2294**	**9.4300e-003**	**1.9500e-003**	**235.0320**

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Industrial Park	716717	234.2294	9.4300e-003	1.9500e-003	235.0320
Total		**234.2294**	**9.4300e-003**	**1.9500e-003**	**235.0320**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.2006	0.0000	4.4000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	8.5000e-004	8.5000e-004	0.0000	0.0000	9.0000e-004
Unmitigated	0.2006	0.0000	4.4000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	8.5000e-004	8.5000e-004	0.0000	0.0000	9.0000e-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	0.0139					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.1867					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	4.4000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	8.5000e-004	8.5000e-004	0.0000	0.0000	9.0000e-004
Total	**0.2006**	**0.0000**	**4.4000e-004**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**8.5000e-004**	**8.5000e-004**	**0.0000**	**0.0000**	**9.0000e-004**

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	0.0139					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.1867					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	4.4000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	8.5000e-004	8.5000e-004	0.0000	0.0000	9.0000e-004
Total	**0.2006**	**0.0000**	**4.4000e-004**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**8.5000e-004**	**8.5000e-004**	**0.0000**	**0.0000**	**9.0000e-004**

7.0 Water Detail

7.1 Mitigation Measures Water

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	50.5553	0.3621	8.8800e-003	60.9135
Unmitigated	50.5553	0.3622	8.9000e-003	60.9191

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Industrial Park	11.0561 / 0	50.5553	0.3622	8.9000e-003	60.9191
Total		**50.5553**	**0.3622**	**8.9000e-003**	**60.9191**

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Industrial Park	11.0561 / 0	50.5553	0.3621	8.8800e-003	60.9135
Total		**50.5553**	**0.3621**	**8.8800e-003**	**60.9135**

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	12.0333	0.7112	0.0000	26.9674
Unmitigated	12.0333	0.7112	0.0000	26.9674

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e

Land Use	tons	MT/yr			
Industrial Park	59.28	12.0333	0.7112	0.0000	26.9674
Total		**12.0333**	**0.7112**	**0.0000**	**26.9674**

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Industrial Park	59.28	12.0333	0.7112	0.0000	26.9674
Total		**12.0333**	**0.7112**	**0.0000**	**26.9674**

9.0 Operational Offroad

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

10.0 Vegetation

East Otay Mesa Specific Plan Amendment Construction Phase 9

San Diego Air Basin, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Industrial Park	47.81	1000sqft	4.00	47,813.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.6	**Precipitation Freq (Days)**	40
Climate Zone	13			**Operational Year**	2026
Utility Company	San Diego Gas & Electric				
CO2 Intensity (lb/MWhr)	720.49	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	250.00	100.00
tblArchitecturalCoating	EF_Nonresidential_Interior	250.00	50.00
tblAreaCoating	Area_Nonresidential_Interior	71720	0
tblAreaMitigation	UseLowVOCPaintNonresidentialExteriorValue	250	0
tblAreaMitigation	UseLowVOCPaintNonresidentialInteriorValue	250	0
tblAreaMitigation	UseLowVOCPaintResidentialExteriorValue	250	0
tblAreaMitigation	UseLowVOCPaintResidentialInteriorValue	250	0
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00

tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	6.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	8.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstructionPhase	NumDays	18.00	132.00
tblConstructionPhase	NumDays	230.00	262.00
tblConstructionPhase	NumDays	18.00	262.00
tblConstructionPhase	PhaseEndDate	7/5/2027	12/31/2026
tblConstructionPhase	PhaseEndDate	1/1/2027	12/31/2026
tblConstructionPhase	PhaseEndDate	1/3/2028	12/31/2026
tblConstructionPhase	PhaseStartDate	1/1/2027	1/1/2026
tblConstructionPhase	PhaseStartDate	1/1/2027	1/1/2026
tblLandUse	LandUseSquareFeet	47,810.00	47,813.00
tblLandUse	LotAcreage	1.10	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00

tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	6.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	6.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblProjectCharacteristics	OperationalYear	2014	2026

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					
2026	6.4178	37.8037	54.5057	0.0929	0.4556	1.6362	2.0918	0.1219	1.5371	1.6590	0.0000	8,684.0944	8,684.0944	2.0383	0.0000	8,726.8980
Total	**6.4178**	**37.8037**	**54.5057**	**0.0929**	**0.4556**	**1.6362**	**2.0918**	**0.1219**	**1.5371**	**1.6590**	**0.0000**	**8,684.0944**	**8,684.0944**	**2.0383**	**0.0000**	**8,726.8980**

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					
2026	4.3247	44.2971	60.1501	0.0929	0.4556	2.7466	3.2022	0.1219	2.7458	2.8677	0.0000	8,684.0944	8,684.0944	2.0383	0.0000	8,726.8980

Total	**4.3247**	**44.2971**	**60.1501**	**0.0929**	**0.4556**	**2.7466**	**3.2022**	**0.1219**	**2.7458**	**2.8677**	**0.0000**	**8,684.0944**	**8,684.0944**	**2.0383**	**0.0000**	**8,726.8980**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**32.61**	**-17.18**	**-10.36**	**0.00**	**0.00**	**-67.86**	**-53.08**	**0.00**	**-78.64**	**-72.86**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	1.0995	4.0000e-005	4.8700e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005		0.0105	0.0105	3.0000e-005		0.0110
Energy	0.0297	0.2701	0.2269	1.6200e-003		0.0205	0.0205		0.0205	0.0205		324.0959	324.0959	6.2100e-003	5.9400e-003	326.0683
Mobile	0.7855	1.3443	7.4252	0.0275	1.8459	0.0291	1.8751	0.4927	0.0269	0.5196		1,972.1960	1,972.1960	0.0633		1,973.5245
Total	**1.9147**	**1.6144**	**7.6569**	**0.0291**	**1.8459**	**0.0497**	**1.8956**	**0.4927**	**0.0475**	**0.5402**		**2,296.3024**	**2,296.3024**	**0.0695**	**5.9400e-003**	**2,299.6038**

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	1.0995	4.0000e-005	4.8700e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005		0.0105	0.0105	3.0000e-005		0.0110
Energy	0.0297	0.2701	0.2269	1.6200e-003		0.0205	0.0205		0.0205	0.0205		324.0959	324.0959	6.2100e-003	5.9400e-003	326.0683

Mobile	0.7855	1.3443	7.4252	0.0275	1.8459	0.0291	1.8751	0.4927	0.0269	0.5196		1,972.1960	1,972.1960	0.0633		1,973.5245
Total	**1.9147**	**1.6144**	**7.6569**	**0.0291**	**1.8459**	**0.0497**	**1.8956**	**0.4927**	**0.0475**	**0.5402**		**2,296.3024**	**2,296.3024**	**0.0695**	**5.9400e-003**	**2,299.6038**

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

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Building Construction	Building Construction	1/1/2026	12/31/2026	5	262	
2	Paving	Paving	1/1/2026	12/31/2026	5	262	
3	Architectural Coating	Architectural Coating	1/1/2026	12/31/2026	5	132	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 71,720; Non-Residential Outdoor: 23,907 (Architectural Coating –

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Building Construction	Cranes	2	7.00	226	0.29
Building Construction	Forklifts	6	8.00	89	0.20
Building Construction	Generator Sets	2	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	6	7.00	97	0.37
Building Construction	Welders	2	8.00	46	0.45
Paving	Cement and Mortar Mixers	2	6.00	9	0.56
Paving	Pavers	2	8.00	125	0.42

Paving	Paving Equipment	2	6.00	130	0.36
Paving	Rollers	2	6.00	80	0.38
Paving	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Architectural Coating	Air Compressors	2	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
Building Construction	18	20.00	8.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	10	25.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	2	4.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

3.2 Building Construction - 2026

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.7229	24.8194	32.1036	0.0537		1.0500	1.0500		0.9878	0.9878		5,091.7811	5,091.7811	1.1951		5,116.8771
Total	**2.7229**	**24.8194**	**32.1036**	**0.0537**		**1.0500**	**1.0500**		**0.9878**	**0.9878**		**5,091.7811**	**5,091.7811**	**1.1951**		**5,116.8771**

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	0.0493	0.2867	0.5895	1.8800e-003	0.0531	6.6300e-003	0.0597	0.0152	6.1000e-003	0.0213		176.2650	176.2650	1.2300e-003		176.2908
Worker	0.0393	0.0437	0.4783	2.0800e-003	0.1643	1.2300e-003	0.1655	0.0436	1.1500e-003	0.0447		136.6007	136.6007	5.4700e-003		136.7156
Total	**0.0886**	**0.3303**	**1.0678**	**3.9600e-003**	**0.2174**	**7.8600e-003**	**0.2253**	**0.0587**	**7.2500e-003**	**0.0660**		**312.8658**	**312.8658**	**6.7000e-003**		**313.0063**

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	1.3424	28.3483	35.6312	0.0537		1.8032	1.8032		1.8032	1.8032	0.0000	5,091.7811	5,091.7811	1.1951		5,116.8771
Total	**1.3424**	**28.3483**	**35.6312**	**0.0537**		**1.8032**	**1.8032**		**1.8032**	**1.8032**	**0.0000**	**5,091.7811**	**5,091.7811**	**1.1951**		**5,116.8771**

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	0.0493	0.2867	0.5895	1.8800e-003	0.0531	6.6300e-003	0.0597	0.0152	6.1000e-003	0.0213		176.2650	176.2650	1.2300e-003		176.2908
Worker	0.0393	0.0437	0.4783	2.0800e-003	0.1643	1.2300e-003	0.1655	0.0436	1.1500e-003	0.0447		136.6007	136.6007	5.4700e-003		136.7156
Total	**0.0886**	**0.3303**	**1.0678**	**3.9600e-003**	**0.2174**	**7.8600e-003**	**0.2253**	**0.0587**	**7.2500e-003**	**0.0660**		**312.8658**	**312.8658**	**6.7000e-003**		**313.0063**

3.3 Paving - 2026

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	1.1090	10.2997	17.0226	0.0263		0.4735	0.4735		0.4373	0.4373		2,518.4804	2,518.4804	0.7979		2,535.2361
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**1.1090**	**10.2997**	**17.0226**	**0.0263**		**0.4735**	**0.4735**		**0.4373**	**0.4373**		**2,518.4804**	**2,518.4804**	**0.7979**		**2,535.2361**

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	0.0491	0.0546	0.5978	2.6000e-003	0.2054	1.5400e-003	0.2069	0.0545	1.4300e-003	0.0559		170.7509	170.7509	6.8300e-003		170.8945

Total	**0.0491**	**0.0546**	**0.5978**	**2.6000e-003**	**0.2054**	**1.5400e-003**	**0.2069**	**0.0545**	**1.4300e-003**	**0.0559**		**170.7509**	**170.7509**	**6.8300e-003**		**170.8945**

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	0.6192	12.8412	19.0928	0.0263		0.7436	0.7436		0.7436	0.7436	0.0000	2,518.4804	2,518.4804	0.7979		2,535.2361
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**0.6192**	**12.8412**	**19.0928**	**0.0263**		**0.7436**	**0.7436**		**0.7436**	**0.7436**	**0.0000**	**2,518.4804**	**2,518.4804**	**0.7979**		**2,535.2361**

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	0.0491	0.0546	0.5978	2.6000e-003	0.2054	1.5400e-003	0.2069	0.0545	1.4300e-003	0.0559		170.7509	170.7509	6.8300e-003		170.8945
Total	**0.0491**	**0.0546**	**0.5978**	**2.6000e-003**	**0.2054**	**1.5400e-003**	**0.2069**	**0.0545**	**1.4300e-003**	**0.0559**		**170.7509**	**170.7509**	**6.8300e-003**		**170.8945**

3.4 Architectural Coating - 2026

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	2.0986					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.3417	2.2910	3.6183	5.9400e-003		0.1030	0.1030		0.1030	0.1030		562.8961	562.8961	0.0307		563.5409
Total	**2.4404**	**2.2910**	**3.6183**	**5.9400e-003**		**0.1030**	**0.1030**		**0.1030**	**0.1030**		**562.8961**	**562.8961**	**0.0307**		**563.5409**

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	7.8600e-003	8.7300e-003	0.0957	4.2000e-004	0.0329	2.5000e-004	0.0331	8.7200e-003	2.3000e-004	8.9400e-003		27.3202	27.3202	1.0900e-003		27.3431
Total	**7.8600e-003**	**8.7300e-003**	**0.0957**	**4.2000e-004**	**0.0329**	**2.5000e-004**	**0.0331**	**8.7200e-003**	**2.3000e-004**	**8.9400e-003**		**27.3202**	**27.3202**	**1.0900e-003**		**27.3431**

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	2.0986					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1189	2.7140	3.6648	5.9400e-003		0.1902	0.1902		0.1902	0.1902	0.0000	562.8961	562.8961	0.0307		563.5409
Total	**2.2175**	**2.7140**	**3.6648**	**5.9400e-003**		**0.1902**	**0.1902**		**0.1902**	**0.1902**	**0.0000**	**562.8961**	**562.8961**	**0.0307**		**563.5409**

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	7.8600e-003	8.7300e-003	0.0957	4.2000e-004	0.0329	2.5000e-004	0.0331	8.7200e-003	2.3000e-004	8.9400e-003		27.3202	27.3202	1.0900e-003		27.3431
Total	**7.8600e-003**	**8.7300e-003**	**0.0957**	**4.2000e-004**	**0.0329**	**2.5000e-004**	**0.0331**	**8.7200e-003**	**2.3000e-004**	**8.9400e-003**		**27.3202**	**27.3202**	**1.0900e-003**		**27.3431**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.7855	1.3443	7.4252	0.0275	1.8459	0.0291	1.8751	0.4927	0.0269	0.5196		1,972.1960	1,972.1960	0.0633		1,973.5245
Unmitigated	0.7855	1.3443	7.4252	0.0275	1.8459	0.0291	1.8751	0.4927	0.0269	0.5196		1,972.1960	1,972.1960	0.0633		1,973.5245

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Industrial Park	332.76	119.05	34.90	680,827	680,827
Total	332.76	119.05	34.90	680,827	680,827

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Industrial Park	9.50	7.30	7.30	59.00	28.00	13.00	79	19	2

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.511808	0.073429	0.191562	0.130831	0.036257	0.005206	0.012696	0.023829	0.001896	0.002021	0.006511	0.000525	0.003428

5.0 Energy Detail

4.4 Fleet Mix

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	0.0297	0.2701	0.2269	1.6200e-003		0.0205	0.0205		0.0205	0.0205		324.0959	324.0959	6.2100e-003	5.9400e-003	326.0683
NaturalGas Unmitigated	0.0297	0.2701	0.2269	1.6200e-003		0.0205	0.0205		0.0205	0.0205		324.0959	324.0959	6.2100e-003	5.9400e-003	326.0683

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					
Industrial Park	2754.81	0.0297	0.2701	0.2269	1.6200e-003		0.0205	0.0205		0.0205	0.0205		324.0959	324.0959	6.2100e-003	5.9400e-003	326.0683
Total		**0.0297**	**0.2701**	**0.2269**	**1.6200e-003**		**0.0205**	**0.0205**		**0.0205**	**0.0205**		**324.0959**	**324.0959**	**6.2100e-003**	**5.9400e-003**	**326.0683**

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					
Industrial Park	2.75481	0.0297	0.2701	0.2269	1.6200e-003		0.0205	0.0205		0.0205	0.0205		324.0959	324.0959	6.2100e-003	5.9400e-003	326.0683
Total		**0.0297**	**0.2701**	**0.2269**	**1.6200e-003**		**0.0205**	**0.0205**		**0.0205**	**0.0205**		**324.0959**	**324.0959**	**6.2100e-003**	**5.9400e-003**	**326.0683**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	1.0995	4.0000e-005	4.8700e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005		0.0105	0.0105	3.0000e-005		0.0110
Unmitigated	1.0995	4.0000e-005	4.8700e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005		0.0105	0.0105	3.0000e-005		0.0110

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	0.0759					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	1.0232					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	4.5000e-004	4.0000e-005	4.8700e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005		0.0105	0.0105	3.0000e-005		0.0110
Total	**1.0996**	**4.0000e-005**	**4.8700e-003**	**0.0000**		**2.0000e-005**	**2.0000e-005**		**2.0000e-005**	**2.0000e-005**		**0.0105**	**0.0105**	**3.0000e-005**		**0.0110**

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	0.0759					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	1.0232					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000

Landscaping	4.5000e-004	4.0000e-005	4.8700e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005		0.0105	0.0105	3.0000e-005		0.0110
Total	**1.0996**	**4.0000e-005**	**4.8700e-003**	**0.0000**		**2.0000e-005**	**2.0000e-005**		**2.0000e-005**	**2.0000e-005**		**0.0105**	**0.0105**	**3.0000e-005**		**0.0110**

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 Vegetation

East Otay Mesa Specific Plan Amendment Construction Phase 10

San Diego Air Basin, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Industrial Park	47.81	1000sqft	4.00	47,813.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.6	**Precipitation Freq (Days)**	40
Climate Zone	13			**Operational Year**	2027
Utility Company	San Diego Gas & Electric				
CO2 Intensity (lb/MWhr)	720.49	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	250.00	100.00
tblArchitecturalCoating	EF_Nonresidential_Interior	250.00	50.00
tblAreaCoating	Area_Nonresidential_Interior	71720	0
tblAreaMitigation	UseLowVOCPaintNonresidentialExteriorValue	250	0
tblAreaMitigation	UseLowVOCPaintNonresidentialInteriorValue	250	0
tblAreaMitigation	UseLowVOCPaintResidentialExteriorValue	250	0
tblAreaMitigation	UseLowVOCPaintResidentialInteriorValue	250	0
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00

tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	6.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	8.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstructionPhase	NumDays	18.00	132.00
tblConstructionPhase	NumDays	230.00	262.00
tblConstructionPhase	NumDays	18.00	262.00
tblConstructionPhase	PhaseEndDate	7/4/2028	12/31/2027
tblConstructionPhase	PhaseEndDate	1/3/2028	12/31/2027
tblConstructionPhase	PhaseEndDate	1/2/2029	12/31/2027
tblConstructionPhase	PhaseStartDate	1/1/2028	1/1/2027
tblConstructionPhase	PhaseStartDate	1/1/2028	1/1/2027
tblLandUse	LandUseSquareFeet	47,810.00	47,813.00
tblLandUse	LotAcreage	1.10	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00

tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	6.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	6.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblProjectCharacteristics	OperationalYear	2014	2027

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					
2027	0.8370	4.9350	7.1159	0.0121	0.0581	0.2135	0.2716	0.0156	0.2006	0.2162	0.0000	1,025.6175	1,025.6175	0.2413	0.0000	1,030.6843
Total	**0.8370**	**4.9350**	**7.1159**	**0.0121**	**0.0581**	**0.2135**	**0.2716**	**0.0156**	**0.2006**	**0.2162**	**0.0000**	**1,025.6175**	**1,025.6175**	**0.2413**	**0.0000**	**1,030.6843**

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					
2027	0.5639	5.7823	7.8524	0.0121	0.0581	0.3584	0.4165	0.0156	0.3583	0.3739	0.0000	1,025.6164	1,025.6164	0.2413	0.0000	1,030.6831

Total	**0.5639**	**5.7823**	**7.8524**	**0.0121**	**0.0581**	**0.3584**	**0.4165**	**0.0156**	**0.3583**	**0.3739**	**0.0000**	**1,025.6164**	**1,025.6164**	**0.2413**	**0.0000**	**1,030.6831**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**32.63**	**-17.17**	**-10.35**	**0.00**	**0.00**	**-67.86**	**-53.35**	**0.00**	**-78.63**	**-72.97**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.2006	0.0000	4.4000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	8.5000e-004	8.5000e-004	0.0000	0.0000	9.0000e-004
Energy	5.4200e-003	0.0493	0.0414	3.0000e-004		3.7500e-003	3.7500e-003		3.7500e-003	3.7500e-003	0.0000	287.8871	287.8871	0.0105	2.9300e-003	289.0163
Mobile	0.1081	0.1970	1.0513	3.7400e-003	0.2560	4.1500e-003	0.2602	0.0685	3.8300e-003	0.0723	0.0000	242.3305	242.3305	7.9800e-003	0.0000	242.4982
Waste						0.0000	0.0000		0.0000	0.0000	12.0333	0.0000	12.0333	0.7112	0.0000	26.9674
Water						0.0000	0.0000		0.0000	0.0000	3.5076	47.0477	50.5553	0.3622	8.9000e-003	60.9191
Total	**0.3142**	**0.2462**	**1.0932**	**4.0400e-003**	**0.2560**	**7.9000e-003**	**0.2639**	**0.0685**	**7.5800e-003**	**0.0761**	**15.5409**	**577.2661**	**592.8070**	**1.0918**	**0.0118**	**619.4018**

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	0.2006	0.0000	4.4000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	8.5000e-004	8.5000e-004	0.0000	0.0000	9.0000e-004
Energy	5.4200e-003	0.0493	0.0414	3.0000e-004		3.7500e-003	3.7500e-003		3.7500e-003	3.7500e-003	0.0000	287.8871	287.8871	0.0105	2.9300e-003	289.0163
Mobile	0.1081	0.1970	1.0513	3.7400e-003	0.2560	4.1500e-003	0.2602	0.0685	3.8300e-003	0.0723	0.0000	242.3305	242.3305	7.9800e-003	0.0000	242.4982
Waste						0.0000	0.0000		0.0000	0.0000	12.0333	0.0000	12.0333	0.7112	0.0000	26.9674
Water						0.0000	0.0000		0.0000	0.0000	3.5076	47.0477	50.5553	0.3621	8.8800e-003	60.9135
Total	**0.3142**	**0.2462**	**1.0932**	**4.0400e-003**	**0.2560**	**7.9000e-003**	**0.2639**	**0.0685**	**7.5800e-003**	**0.0761**	**15.5409**	**577.2661**	**592.8070**	**1.0917**	**0.0118**	**619.3962**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.01**	**0.17**	**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	Building Construction	Building Construction	1/1/2027	12/31/2027	5	262	
2	Paving	Paving	1/1/2027	12/31/2027	5	262	
3	Architectural Coating	Architectural Coating	1/1/2027	12/31/2027	5	132	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 71,720; Non-Residential Outdoor: 23,907 (Architectural Coating –

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Building Construction	Cranes	2	7.00	226	0.29
Building Construction	Forklifts	6	8.00	89	0.20

Building Construction	Generator Sets	2	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	6	7.00	97	0.37
Building Construction	Welders	2	8.00	46	0.45
Paving	Cement and Mortar Mixers	2	6.00	9	0.56
Paving	Pavers	2	8.00	125	0.42
Paving	Paving Equipment	2	6.00	130	0.36
Paving	Rollers	2	6.00	80	0.38
Paving	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Architectural Coating	Air Compressors	2	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
Building Construction	18	20.00	8.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	10	25.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	2	4.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

3.2 Building Construction - 2027

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	0.3553	3.2389	4.1895	7.0100e-003		0.1370	0.1370		0.1289	0.1289	0.0000	602.8038	602.8038	0.1415	0.0000	605.7749

Total	**0.3553**	**3.2389**	**4.1895**	**7.0100e-003**		**0.1370**	**0.1370**		**0.1289**	**0.1289**	**0.0000**	**602.8038**	**602.8038**	**0.1415**	**0.0000**	**605.7749**

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	6.6600e-003	0.0380	0.0924	2.4000e-004	6.7900e-003	8.7000e-004	7.6600e-003	1.9400e-003	8.0000e-004	2.7400e-003	0.0000	20.8019	20.8019	1.5000e-004	0.0000	20.8050
Worker	4.8200e-003	6.0900e-003	0.0573	2.6000e-004	0.0209	1.6000e-004	0.0211	5.5600e-003	1.5000e-004	5.7100e-003	0.0000	15.1898	15.1898	6.3000e-004	0.0000	15.2031
Total	**0.0115**	**0.0441**	**0.1497**	**5.0000e-004**	**0.0277**	**1.0300e-003**	**0.0288**	**7.5000e-003**	**9.5000e-004**	**8.4500e-003**	**0.0000**	**35.9917**	**35.9917**	**7.8000e-004**	**0.0000**	**36.0081**

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	0.1752	3.6995	4.6499	7.0100e-003		0.2353	0.2353		0.2353	0.2353	0.0000	602.8031	602.8031	0.1415	0.0000	605.7741
Total	**0.1752**	**3.6995**	**4.6499**	**7.0100e-003**		**0.2353**	**0.2353**		**0.2353**	**0.2353**	**0.0000**	**602.8031**	**602.8031**	**0.1415**	**0.0000**	**605.7741**

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	6.6600e-003	0.0380	0.0924	2.4000e-004	6.7900e-003	8.7000e-004	7.6600e-003	1.9400e-003	8.0000e-004	2.7400e-003	0.0000	20.8019	20.8019	1.5000e-004	0.0000	20.8050
Worker	4.8200e-003	6.0900e-003	0.0573	2.6000e-004	0.0209	1.6000e-004	0.0211	5.5600e-003	1.5000e-004	5.7100e-003	0.0000	15.1898	15.1898	6.3000e-004	0.0000	15.2031
Total	**0.0115**	**0.0441**	**0.1497**	**5.0000e-004**	**0.0277**	**1.0300e-003**	**0.0288**	**7.5000e-003**	**9.5000e-004**	**8.4500e-003**	**0.0000**	**35.9917**	**35.9917**	**7.8000e-004**	**0.0000**	**36.0081**

3.3 Paving - 2027

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	0.1447	1.3441	2.2215	3.4300e-003		0.0618	0.0618		0.0571	0.0571	0.0000	298.1569	298.1569	0.0945	0.0000	300.1405
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.1447**	**1.3441**	**2.2215**	**3.4300e-003**		**0.0618**	**0.0618**		**0.0571**	**0.0571**	**0.0000**	**298.1569**	**298.1569**	**0.0945**	**0.0000**	**300.1405**

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	6.0300e-003	7.6100e-003	0.0716	3.2000e-004	0.0262	2.0000e-004	0.0264	6.9500e-003	1.9000e-004	7.1400e-003	0.0000	18.9873	18.9873	7.9000e-004	0.0000	19.0039
Total	**6.0300e-003**	**7.6100e-003**	**0.0716**	**3.2000e-004**	**0.0262**	**2.0000e-004**	**0.0264**	**6.9500e-003**	**1.9000e-004**	**7.1400e-003**	**0.0000**	**18.9873**	**18.9873**	**7.9000e-004**	**0.0000**	**19.0039**

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	0.0808	1.6758	2.4916	3.4300e-003		0.0970	0.0970		0.0970	0.0970	0.0000	298.1565	298.1565	0.0945	0.0000	300.1402
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0808**	**1.6758**	**2.4916**	**3.4300e-003**		**0.0970**	**0.0970**		**0.0970**	**0.0970**	**0.0000**	**298.1565**	**298.1565**	**0.0945**	**0.0000**	**300.1402**

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	6.0300e-003	7.6100e-003	0.0716	3.2000e-004	0.0262	2.0000e-004	0.0264	6.9500e-003	1.9000e-004	7.1400e-003	0.0000	18.9873	18.9873	7.9000e-004	0.0000	19.0039
Total	**6.0300e-003**	**7.6100e-003**	**0.0716**	**3.2000e-004**	**0.0262**	**2.0000e-004**	**0.0264**	**6.9500e-003**	**1.9000e-004**	**7.1400e-003**	**0.0000**	**18.9873**	**18.9873**	**7.9000e-004**	**0.0000**	**19.0039**

3.4 Architectural Coating - 2027

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	0.2739					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0446	0.2990	0.4722	7.8000e-004		0.0134	0.0134		0.0134	0.0134	0.0000	66.6399	66.6399	3.6400e-003	0.0000	66.7163
Total	**0.3185**	**0.2990**	**0.4722**	**7.8000e-004**		**0.0134**	**0.0134**		**0.0134**	**0.0134**	**0.0000**	**66.6399**	**66.6399**	**3.6400e-003**	**0.0000**	**66.7163**

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	9.6000e-004	1.2200e-003	0.0115	5.0000e-005	4.1900e-003	3.0000e-005	4.2200e-003	1.1100e-003	3.0000e-005	1.1400e-003	0.0000	3.0380	3.0380	1.3000e-004	0.0000	3.0406
Total	**9.6000e-004**	**1.2200e-003**	**0.0115**	**5.0000e-005**	**4.1900e-003**	**3.0000e-005**	**4.2200e-003**	**1.1100e-003**	**3.0000e-005**	**1.1400e-003**	**0.0000**	**3.0380**	**3.0380**	**1.3000e-004**	**0.0000**	**3.0406**

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	0.2739					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0155	0.3542	0.4783	7.8000e-004		0.0248	0.0248		0.0248	0.0248	0.0000	66.6398	66.6398	3.6400e-003	0.0000	66.7162
Total	**0.2894**	**0.3542**	**0.4783**	**7.8000e-004**		**0.0248**	**0.0248**		**0.0248**	**0.0248**	**0.0000**	**66.6398**	**66.6398**	**3.6400e-003**	**0.0000**	**66.7162**

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	9.6000e-004	1.2200e-003	0.0115	5.0000e-005	4.1900e-003	3.0000e-005	4.2200e-003	1.1100e-003	3.0000e-005	1.1400e-003	0.0000	3.0380	3.0380	1.3000e-004	0.0000	3.0406
Total	**9.6000e-004**	**1.2200e-003**	**0.0115**	**5.0000e-005**	**4.1900e-003**	**3.0000e-005**	**4.2200e-003**	**1.1100e-003**	**3.0000e-005**	**1.1400e-003**	**0.0000**	**3.0380**	**3.0380**	**1.3000e-004**	**0.0000**	**3.0406**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e

Category	tons/yr										MT/yr					
Mitigated	0.1081	0.1970	1.0513	3.7400e-003	0.2560	4.1500e-003	0.2602	0.0685	3.8300e-003	0.0723	0.0000	242.3305	242.3305	7.9800e-003	0.0000	242.4982
Unmitigated	0.1081	0.1970	1.0513	3.7400e-003	0.2560	4.1500e-003	0.2602	0.0685	3.8300e-003	0.0723	0.0000	242.3305	242.3305	7.9800e-003	0.0000	242.4982

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Industrial Park	332.76	119.05	34.90	680,827	680,827
Total	332.76	119.05	34.90	680,827	680,827

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-...	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Industrial Park	9.50	7.30	7.30	59.00	28.00	13.00	79	19	2

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.511779	0.073478	0.191554	0.130659	0.036263	0.005224	0.012725	0.023947	0.001903	0.002016	0.006512	0.000517	0.003425

5.0 Energy Detail

4.4 Fleet Mix

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	234.2294	234.2294	9.4300e-003	1.9500e-003	235.0320
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	234.2294	234.2294	9.4300e-003	1.9500e-003	235.0320
NaturalGas Mitigated	5.4200e-003	0.0493	0.0414	3.0000e-004		3.7500e-003	3.7500e-003		3.7500e-003	3.7500e-003	0.0000	53.6577	53.6577	1.0300e-003	9.8000e-004	53.9843
NaturalGas Unmitigated	5.4200e-003	0.0493	0.0414	3.0000e-004		3.7500e-003	3.7500e-003		3.7500e-003	3.7500e-003	0.0000	53.6577	53.6577	1.0300e-003	9.8000e-004	53.9843

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					
Industrial Park	1.00551e+006	5.4200e-003	0.0493	0.0414	3.0000e-004		3.7500e-003	3.7500e-003		3.7500e-003	3.7500e-003	0.0000	53.6577	53.6577	1.0300e-003	9.8000e-004	53.9843
Total		**5.4200e-003**	**0.0493**	**0.0414**	**3.0000e-004**		**3.7500e-003**	**3.7500e-003**		**3.7500e-003**	**3.7500e-003**	**0.0000**	**53.6577**	**53.6577**	**1.0300e-003**	**9.8000e-004**	**53.9843**

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					
Industrial Park	1.00551e+006	5.4200e-003	0.0493	0.0414	3.0000e-004		3.7500e-003	3.7500e-003		3.7500e-003	3.7500e-003	0.0000	53.6577	53.6577	1.0300e-003	9.8000e-004	53.9843
Total		**5.4200e-003**	**0.0493**	**0.0414**	**3.0000e-004**		**3.7500e-003**	**3.7500e-003**		**3.7500e-003**	**3.7500e-003**	**0.0000**	**53.6577**	**53.6577**	**1.0300e-003**	**9.8000e-004**	**53.9843**

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Industrial Park	716717	234.2294	9.4300e-003	1.9500e-003	235.0320
Total		**234.2294**	**9.4300e-003**	**1.9500e-003**	**235.0320**

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Industrial Park	716717	234.2294	9.4300e-003	1.9500e-003	235.0320
Total		**234.2294**	**9.4300e-003**	**1.9500e-003**	**235.0320**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.2006	0.0000	4.4000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	8.5000e-004	8.5000e-004	0.0000	0.0000	9.0000e-004
Unmitigated	0.2006	0.0000	4.4000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	8.5000e-004	8.5000e-004	0.0000	0.0000	9.0000e-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	0.0139					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.1867					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	4.4000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	8.5000e-004	8.5000e-004	0.0000	0.0000	9.0000e-004
Total	**0.2006**	**0.0000**	**4.4000e-004**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**8.5000e-004**	**8.5000e-004**	**0.0000**	**0.0000**	**9.0000e-004**

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	0.0139					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.1867					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	4.4000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	8.5000e-004	8.5000e-004	0.0000	0.0000	9.0000e-004
Total	**0.2006**	**0.0000**	**4.4000e-004**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**8.5000e-004**	**8.5000e-004**	**0.0000**	**0.0000**	**9.0000e-004**

7.0 Water Detail

7.1 Mitigation Measures Water

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	50.5553	0.3621	8.8800e-003	60.9135
Unmitigated	50.5553	0.3622	8.9000e-003	60.9191

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Industrial Park	11.0561 / 0	50.5553	0.3622	8.9000e-003	60.9191
Total		**50.5553**	**0.3622**	**8.9000e-003**	**60.9191**

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Industrial Park	11.0561 / 0	50.5553	0.3621	8.8800e-003	60.9135
Total		**50.5553**	**0.3621**	**8.8800e-003**	**60.9135**

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	12.0333	0.7112	0.0000	26.9674
Unmitigated	12.0333	0.7112	0.0000	26.9674

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e

Land Use	tons	MT/yr			
Industrial Park	59.28	12.0333	0.7112	0.0000	26.9674
Total		**12.0333**	**0.7112**	**0.0000**	**26.9674**

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Industrial Park	59.28	12.0333	0.7112	0.0000	26.9674
Total		**12.0333**	**0.7112**	**0.0000**	**26.9674**

9.0 Operational Offroad

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

10.0 Vegetation

East Otay Mesa Specific Plan Amendment Construction Phase 10

San Diego Air Basin, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Industrial Park	47.81	1000sqft	4.00	47,813.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.6	**Precipitation Freq (Days)**	40
Climate Zone	13			**Operational Year**	2027
Utility Company	San Diego Gas & Electric				
CO2 Intensity (lb/MWhr)	720.49	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	250.00	100.00
tblArchitecturalCoating	EF_Nonresidential_Interior	250.00	50.00
tblAreaCoating	Area_Nonresidential_Interior	71720	0
tblAreaMitigation	UseLowVOCPaintNonresidentialExteriorValue	250	0
tblAreaMitigation	UseLowVOCPaintNonresidentialInteriorValue	250	0
tblAreaMitigation	UseLowVOCPaintResidentialExteriorValue	250	0
tblAreaMitigation	UseLowVOCPaintResidentialInteriorValue	250	0
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00

tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	6.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	8.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstructionPhase	NumDays	18.00	132.00
tblConstructionPhase	NumDays	230.00	262.00
tblConstructionPhase	NumDays	18.00	262.00
tblConstructionPhase	PhaseEndDate	7/4/2028	12/31/2027
tblConstructionPhase	PhaseEndDate	1/3/2028	12/31/2027
tblConstructionPhase	PhaseEndDate	1/2/2029	12/31/2027
tblConstructionPhase	PhaseStartDate	1/1/2028	1/1/2027
tblConstructionPhase	PhaseStartDate	1/1/2028	1/1/2027
tblLandUse	LandUseSquareFeet	47,810.00	47,813.00
tblLandUse	LotAcreage	1.10	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00

tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	6.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	6.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblProjectCharacteristics	OperationalYear	2014	2027

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					
2027	6.4138	37.7977	54.4570	0.0929	0.4556	1.6362	2.0919	0.1219	1.5371	1.6590	0.0000	8,681.0748	8,681.0748	2.0380	0.0000	8,723.8726
Total	**6.4138**	**37.7977**	**54.4570**	**0.0929**	**0.4556**	**1.6362**	**2.0919**	**0.1219**	**1.5371**	**1.6590**	**0.0000**	**8,681.0748**	**8,681.0748**	**2.0380**	**0.0000**	**8,723.8726**

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					
2027	4.3207	44.2911	60.1014	0.0929	0.4556	2.7466	3.2022	0.1219	2.7458	2.8678	0.0000	8,681.0748	8,681.0748	2.0380	0.0000	8,723.8726

Total	**4.3207**	**44.2911**	**60.1014**	**0.0929**	**0.4556**	**2.7466**	**3.2022**	**0.1219**	**2.7458**	**2.8678**	**0.0000**	**8,681.0748**	**8,681.0748**	**2.0380**	**0.0000**	**8,723.8726**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**32.63**	**-17.18**	**-10.36**	**0.00**	**0.00**	**-67.86**	**-53.08**	**0.00**	**-78.64**	**-72.86**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	1.0995	4.0000e-005	4.8700e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005		0.0105	0.0105	3.0000e-005		0.0110
Energy	0.0297	0.2701	0.2269	1.6200e-003		0.0205	0.0205		0.0205	0.0205		324.0959	324.0959	6.2100e-003	5.9400e-003	326.0683
Mobile	0.7685	1.3099	7.2540	0.0275	1.8459	0.0292	1.8752	0.4927	0.0270	0.5197		1,959.9187	1,959.9187	0.0620		1,961.2207
Total	**1.8977**	**1.5800**	**7.4857**	**0.0291**	**1.8459**	**0.0498**	**1.8957**	**0.4927**	**0.0475**	**0.5403**		**2,284.0250**	**2,284.0250**	**0.0682**	**5.9400e-003**	**2,287.3000**

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	1.0995	4.0000e-005	4.8700e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005		0.0105	0.0105	3.0000e-005		0.0110
Energy	0.0297	0.2701	0.2269	1.6200e-003		0.0205	0.0205		0.0205	0.0205		324.0959	324.0959	6.2100e-003	5.9400e-003	326.0683

Mobile	0.7685	1.3099	7.2540	0.0275	1.8459	0.0292	1.8752	0.4927	0.0270	0.5197		1,959.9187	1,959.9187	0.0620		1,961.2207
Total	**1.8977**	**1.5800**	**7.4857**	**0.0291**	**1.8459**	**0.0498**	**1.8957**	**0.4927**	**0.0475**	**0.5403**		**2,284.0250**	**2,284.0250**	**0.0682**	**5.9400e-003**	**2,287.3000**

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

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Building Construction	Building Construction	1/1/2027	12/31/2027	5	262	
2	Paving	Paving	1/1/2027	12/31/2027	5	262	
3	Architectural Coating	Architectural Coating	1/1/2027	12/31/2027	5	132	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 71,720; Non-Residential Outdoor: 23,907 (Architectural Coating –

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Building Construction	Cranes	2	7.00	226	0.29
Building Construction	Forklifts	6	8.00	89	0.20
Building Construction	Generator Sets	2	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	6	7.00	97	0.37
Building Construction	Welders	2	8.00	46	0.45
Paving	Cement and Mortar Mixers	2	6.00	9	0.56
Paving	Pavers	2	8.00	125	0.42

Paving	Paving Equipment	2	6.00	130	0.36
Paving	Rollers	2	6.00	80	0.38
Paving	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Architectural Coating	Air Compressors	2	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
Building Construction	18	20.00	8.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	10	25.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	2	4.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

3.2 Building Construction - 2027

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.7229	24.8194	32.1036	0.0537		1.0500	1.0500		0.9878	0.9878		5,091.7811	5,091.7811	1.1951		5,116.8771
Total	**2.7229**	**24.8194**	**32.1036**	**0.0537**		**1.0500**	**1.0500**		**0.9878**	**0.9878**		**5,091.7811**	**5,091.7811**	**1.1951**		**5,116.8771**

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	0.0483	0.2838	0.5753	1.8800e-003	0.0531	6.6400e-003	0.0598	0.0152	6.1100e-003	0.0213		176.2863	176.2863	1.2300e-003		176.3121
Worker	0.0381	0.0424	0.4642	2.0800e-003	0.1643	1.2500e-003	0.1655	0.0436	1.1600e-003	0.0447		135.3596	135.3596	5.3500e-003		135.4720
Total	**0.0864**	**0.3262**	**1.0395**	**3.9600e-003**	**0.2174**	**7.8900e-003**	**0.2253**	**0.0587**	**7.2700e-003**	**0.0660**		**311.6458**	**311.6458**	**6.5800e-003**		**311.7841**

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	1.3424	28.3483	35.6312	0.0537		1.8032	1.8032		1.8032	1.8032	0.0000	5,091.7811	5,091.7811	1.1951		5,116.8771
Total	**1.3424**	**28.3483**	**35.6312**	**0.0537**		**1.8032**	**1.8032**		**1.8032**	**1.8032**	**0.0000**	**5,091.7811**	**5,091.7811**	**1.1951**		**5,116.8771**

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	0.0483	0.2838	0.5753	1.8800e-003	0.0531	6.6400e-003	0.0598	0.0152	6.1100e-003	0.0213		176.2863	176.2863	1.2300e-003		176.3121
Worker	0.0381	0.0424	0.4642	2.0800e-003	0.1643	1.2500e-003	0.1655	0.0436	1.1600e-003	0.0447		135.3596	135.3596	5.3500e-003		135.4720
Total	**0.0864**	**0.3262**	**1.0395**	**3.9600e-003**	**0.2174**	**7.8900e-003**	**0.2253**	**0.0587**	**7.2700e-003**	**0.0660**		**311.6458**	**311.6458**	**6.5800e-003**		**311.7841**

3.3 Paving - 2027

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	1.1090	10.2997	17.0226	0.0263		0.4735	0.4735		0.4373	0.4373		2,518.4804	2,518.4804	0.7979		2,535.2361
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**1.1090**	**10.2997**	**17.0226**	**0.0263**		**0.4735**	**0.4735**		**0.4373**	**0.4373**		**2,518.4804**	**2,518.4804**	**0.7979**		**2,535.2361**

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	0.0476	0.0529	0.5803	2.6000e-003	0.2054	1.5600e-003	0.2069	0.0545	1.4500e-003	0.0559		169.1995	169.1995	6.6900e-003		169.3400

Total	**0.0476**	**0.0529**	**0.5803**	**2.6000e-003**	**0.2054**	**1.5600e-003**	**0.2069**	**0.0545**	**1.4500e-003**	**0.0559**		**169.1995**	**169.1995**	**6.6900e-003**		**169.3400**

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	0.6192	12.8412	19.0928	0.0263		0.7436	0.7436		0.7436	0.7436	0.0000	2,518.4804	2,518.4804	0.7979		2,535.2361
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**0.6192**	**12.8412**	**19.0928**	**0.0263**		**0.7436**	**0.7436**		**0.7436**	**0.7436**	**0.0000**	**2,518.4804**	**2,518.4804**	**0.7979**		**2,535.2361**

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	0.0476	0.0529	0.5803	2.6000e-003	0.2054	1.5600e-003	0.2069	0.0545	1.4500e-003	0.0559		169.1995	169.1995	6.6900e-003		169.3400
Total	**0.0476**	**0.0529**	**0.5803**	**2.6000e-003**	**0.2054**	**1.5600e-003**	**0.2069**	**0.0545**	**1.4500e-003**	**0.0559**		**169.1995**	**169.1995**	**6.6900e-003**		**169.3400**

3.4 Architectural Coating - 2027

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	2.0986					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.3417	2.2910	3.6183	5.9400e-003		0.1030	0.1030		0.1030	0.1030		562.8961	562.8961	0.0307		563.5409
Total	**2.4404**	**2.2910**	**3.6183**	**5.9400e-003**		**0.1030**	**0.1030**		**0.1030**	**0.1030**		**562.8961**	**562.8961**	**0.0307**		**563.5409**

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	7.6100e-003	8.4700e-003	0.0928	4.2000e-004	0.0329	2.5000e-004	0.0331	8.7200e-003	2.3000e-004	8.9500e-003		27.0719	27.0719	1.0700e-003		27.0944
Total	**7.6100e-003**	**8.4700e-003**	**0.0928**	**4.2000e-004**	**0.0329**	**2.5000e-004**	**0.0331**	**8.7200e-003**	**2.3000e-004**	**8.9500e-003**		**27.0719**	**27.0719**	**1.0700e-003**		**27.0944**

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	2.0986					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1189	2.7140	3.6648	5.9400e-003		0.1902	0.1902		0.1902	0.1902	0.0000	562.8961	562.8961	0.0307		563.5409
Total	**2.2175**	**2.7140**	**3.6648**	**5.9400e-003**		**0.1902**	**0.1902**		**0.1902**	**0.1902**	**0.0000**	**562.8961**	**562.8961**	**0.0307**		**563.5409**

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	7.6100e-003	8.4700e-003	0.0928	4.2000e-004	0.0329	2.5000e-004	0.0331	8.7200e-003	2.3000e-004	8.9500e-003		27.0719	27.0719	1.0700e-003		27.0944
Total	**7.6100e-003**	**8.4700e-003**	**0.0928**	**4.2000e-004**	**0.0329**	**2.5000e-004**	**0.0331**	**8.7200e-003**	**2.3000e-004**	**8.9500e-003**		**27.0719**	**27.0719**	**1.0700e-003**		**27.0944**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.7685	1.3099	7.2540	0.0275	1.8459	0.0292	1.8752	0.4927	0.0270	0.5197		1,959.9187	1,959.9187	0.0620		1,961.2207
Unmitigated	0.7685	1.3099	7.2540	0.0275	1.8459	0.0292	1.8752	0.4927	0.0270	0.5197		1,959.9187	1,959.9187	0.0620		1,961.2207

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Industrial Park	332.76	119.05	34.90	680,827	680,827
Total	332.76	119.05	34.90	680,827	680,827

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Industrial Park	9.50	7.30	7.30	59.00	28.00	13.00	79	19	2

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.511779	0.073478	0.191554	0.130659	0.036263	0.005224	0.012725	0.023947	0.001903	0.002016	0.006512	0.000517	0.003425

5.0 Energy Detail

4.4 Fleet Mix

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	0.0297	0.2701	0.2269	1.6200e-003		0.0205	0.0205		0.0205	0.0205		324.0959	324.0959	6.2100e-003	5.9400e-003	326.0683
NaturalGas Unmitigated	0.0297	0.2701	0.2269	1.6200e-003		0.0205	0.0205		0.0205	0.0205		324.0959	324.0959	6.2100e-003	5.9400e-003	326.0683

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					
Industrial Park	2754.81	0.0297	0.2701	0.2269	1.6200e-003		0.0205	0.0205		0.0205	0.0205		324.0959	324.0959	6.2100e-003	5.9400e-003	326.0683
Total		**0.0297**	**0.2701**	**0.2269**	**1.6200e-003**		**0.0205**	**0.0205**		**0.0205**	**0.0205**		**324.0959**	**324.0959**	**6.2100e-003**	**5.9400e-003**	**326.0683**

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					
Industrial Park	2.75481	0.0297	0.2701	0.2269	1.6200e-003		0.0205	0.0205		0.0205	0.0205		324.0959	324.0959	6.2100e-003	5.9400e-003	326.0683
Total		**0.0297**	**0.2701**	**0.2269**	**1.6200e-003**		**0.0205**	**0.0205**		**0.0205**	**0.0205**		**324.0959**	**324.0959**	**6.2100e-003**	**5.9400e-003**	**326.0683**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	1.0995	4.0000e-005	4.8700e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005		0.0105	0.0105	3.0000e-005		0.0110
Unmitigated	1.0995	4.0000e-005	4.8700e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005		0.0105	0.0105	3.0000e-005		0.0110

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	0.0759					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	1.0232					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	4.5000e-004	4.0000e-005	4.8700e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005		0.0105	0.0105	3.0000e-005		0.0110
Total	**1.0996**	**4.0000e-005**	**4.8700e-003**	**0.0000**		**2.0000e-005**	**2.0000e-005**		**2.0000e-005**	**2.0000e-005**		**0.0105**	**0.0105**	**3.0000e-005**		**0.0110**

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	0.0759					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	1.0232					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000

Landscaping	4.5000e-004	4.0000e-005	4.8700e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005		0.0105	0.0105	3.0000e-005		0.0110
Total	**1.0996**	**4.0000e-005**	**4.8700e-003**	**0.0000**		**2.0000e-005**	**2.0000e-005**		**2.0000e-005**	**2.0000e-005**		**0.0105**	**0.0105**	**3.0000e-005**		**0.0110**

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 Vegetation

East Otay Mesa Specific Plan Amendment without Title 24 reductions

San Diego Air Basin, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Industrial Park	765.00	1000sqft	47.72	765,000.00	0
Condo/Townhouse	3,158.00	Dwelling Unit	124.40	3,158,000.00	9032
Regional Shopping Center	68.00	1000sqft	6.80	68,000.00	0
Strip Mall	10.00	1000sqft	1.00	10,000.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.6	**Precipitation Freq (Days)**	40
Climate Zone	13			**Operational Year**	2030
Utility Company	San Diego Gas & Electric				
CO2 Intensity (lb/MWhr)	360.25	**CH4 Intensity (lb/MWhr)**	0.015	**N2O Intensity (lb/MWhr)**	0.003

1.3 User Entered Comments & Non-Default Data

Mobile Land Use Mitigation -

Table Name	Column Name	Default Value	New Value
tblAreaCoating	Area_EF_Nonresidential_Exterior	250	100
tblAreaCoating	Area_Nonresidential_Interior	1264500	906915
tblAreaMitigation	UseLowVOCPaintNonresidentialExterior Value	100	0
tblAreaMitigation	UseLowVOCPaintNonresidentialInterior Value	250	0
tblAreaMitigation	UseLowVOCPaintResidentialExteriorValue	250	0
tblAreaMitigation	UseLowVOCPaintResidentialInteriorValue	250	0

tblConstructionPhase	NumDays	220.00	0.00
tblConstructionPhase	NumDays	3,100.00	0.00
tblConstructionPhase	NumDays	200.00	0.00
tblConstructionPhase	NumDays	310.00	0.00
tblConstructionPhase	NumDays	220.00	0.00
tblConstructionPhase	NumDays	120.00	0.00
tblConstructionPhase	PhaseEndDate	12/30/2016	12/31/2010
tblConstructionPhase	PhaseStartDate	1/1/2011	1/2/2011
tblConstructionPhase	PhaseStartDate	1/1/2011	1/2/2011
tblConstructionPhase	PhaseStartDate	1/1/2017	1/2/2011
tblConstructionPhase	PhaseStartDate	1/1/2011	1/2/2011
tblConstructionPhase	PhaseStartDate	1/1/2011	1/2/2011
tblConstructionPhase	PhaseStartDate	1/1/2011	1/2/2011
tblEnergyUse	LightingElect	6.99	4.33
tblEnergyUse	LightingElect	6.99	4.33
tblEnergyUse	NT24E	3.16	4.97
tblEnergyUse	NT24E	3.16	4.97
tblEnergyUse	NT24NG	1.09	4.20
tblEnergyUse	NT24NG	1.09	4.20
tblEnergyUse	T24E	206.69	158.53
tblEnergyUse	T24E	5.69	4.45
tblEnergyUse	T24E	3.89	3.04
tblEnergyUse	T24E	3.89	3.04
tblEnergyUse	T24NG	10,789.48	10,379.48
tblEnergyUse	T24NG	16.83	14.00
tblEnergyUse	T24NG	1.20	1.00
tblEnergyUse	T24NG	1.20	1.00
tblFireplaces	FireplaceDayYear	82.00	30.00
tblFireplaces	NumberGas	1,736.90	1,658.00
tblFireplaces	NumberNoFireplace	315.80	1,500.00

tblFireplaces	NumberWood	1,105.30	0.00
tblLandUse	LotAcreage	17.56	47.72
tblLandUse	LotAcreage	197.38	124.40
tblLandUse	LotAcreage	1.56	6.80
tblLandUse	LotAcreage	0.23	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	1.00
tblOffRoadEquipment	UsageHours	7.00	4.00
tblOffRoadEquipment	UsageHours	8.00	6.00
tblOffRoadEquipment	UsageHours	8.00	7.00
tblOffRoadEquipment	UsageHours	8.00	7.00
tblOffRoadEquipment	UsageHours	8.00	1.00
tblOffRoadEquipment	UsageHours	8.00	1.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	8.00	6.00
tblProjectCharacteristics	CH4IntensityFactor	0.029	0.015
tblProjectCharacteristics	CO2IntensityFactor	720.49	360.25
tblProjectCharacteristics	N2OIntensityFactor	0.006	0.003
tblProjectCharacteristics	OperationalYear	2014	2030
tblTripsAndVMT	WorkerTripNumber	18.00	10.00
tblTripsAndVMT	WorkerTripNumber	13.00	5.00
tblTripsAndVMT	WorkerTripNumber	23.00	10.00
tblTripsAndVMT	WorkerTripNumber	2,620.00	0.00
tblTripsAndVMT	WorkerTripNumber	23.00	18.00
tblTripsAndVMT	WorkerTripNumber	524.00	0.00
tblVehicleEF	HHD	527.65	465.40

tblVehicleEF	HHD	1,539.30	1,541.16
tblVehicleEF	HHD	49.32	1.45
tblVehicleEF	LDA	214.98	203.37
tblVehicleEF	LDA	44.92	44.64
tblVehicleEF	LDT1	262.86	269.96
tblVehicleEF	LDT1	55.59	59.82
tblVehicleEF	LDT2	333.70	294.81
tblVehicleEF	LDT2	70.03	64.38
tblVehicleEF	LHD1	7.98	5.17
tblVehicleEF	LHD1	732.94	639.43
tblVehicleEF	LHD1	37.44	22.17
tblVehicleEF	LHD2	8.84	7.61
tblVehicleEF	LHD2	621.83	681.63
tblVehicleEF	LHD2	22.80	19.90
tblVehicleEF	MCY	159.00	88.29
tblVehicleEF	MCY	36.50	46.22
tblVehicleEF	MDV	444.83	396.54
tblVehicleEF	MDV	93.60	86.23
tblVehicleEF	MH	682.76	1,206.86
tblVehicleEF	MH	28.13	58.30
tblVehicleEF	MHD	572.80	26.04
tblVehicleEF	MHD	992.23	1,174.94
tblVehicleEF	MHD	49.32	11.54
tblVehicleEF	OBUS	533.35	60.45
tblVehicleEF	OBUS	1,039.18	1,307.62
tblVehicleEF	OBUS	32.73	46.11
tblVehicleEF	SBUS	570.74	135.95
tblVehicleEF	SBUS	1,001.09	1,066.59
tblVehicleEF	SBUS	115.30	35.25
tblVehicleEF	UBUS	1,893.89	1,813.97

tblVehicleEF	UBUS	22.78	130.70
tblVehicleTrips	ST_TR	7.16	8.00
tblVehicleTrips	ST_TR	49.97	96.00
tblVehicleTrips	ST_TR	42.04	40.00
tblVehicleTrips	SU_TR	6.07	8.00
tblVehicleTrips	SU_TR	25.24	96.00
tblVehicleTrips	SU_TR	20.43	40.00
tblVehicleTrips	WD_TR	6.59	8.00
tblVehicleTrips	WD_TR	6.96	7.48
tblVehicleTrips	WD_TR	42.94	96.00
tblVehicleTrips	WD_TR	44.32	40.00
tblWoodstoves	NumberCatalytic	157.90	0.00
tblWoodstoves	NumberNoncatalytic	157.90	0.00

2.0 Emissions Summary

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

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	21.9376	0.2697	23.3969	1.2400e-003		0.1634	0.1634		0.1631	0.1631	0.0000	516.0946	516.0946	0.0457	8.7600e-003	519.7695
Energy	0.3051	2.6495	1.4186	0.0166		0.2108	0.2108		0.2108	0.2108	0.0000	7,107.5184	7,107.5184	0.2281	0.0894	7,140.0228

Mobile	14.3559	25.7434	140.0776	0.5265	36.0379	0.5850	36.6229	9.6378	0.5403	10.1780	0.0000	31,752.0693	31,752.0693	1.0644	0.0000	31,774.4223
Waste						0.0000	0.0000		0.0000	0.0000	504.0631	0.0000	504.0631	29.7893	0.0000	1,129.6379
Water						0.0000	0.0000		0.0000	0.0000	123.2342	1,068.4129	1,191.6471	12.7018	0.3078	1,553.7922
Total	**36.5987**	**28.6626**	**164.8930**	**0.5444**	**36.0379**	**0.9592**	**36.9972**	**9.6378**	**0.9142**	**10.5519**	**627.2973**	**40,444.0952**	**41,071.3925**	**43.8293**	**0.4059**	**42,117.6447**

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	21.9278	0.2680	23.2283	1.2300e-003		0.1624	0.1624		0.1621	0.1621	0.0000	515.7494	515.7494	0.0452	8.7600e-003	519.4133
Energy	0.3051	2.6495	1.4186	0.0166		0.2108	0.2108		0.2108	0.2108	0.0000	7,032.3930	7,032.3930	0.2250	0.0888	7,064.6379
Mobile	13.9786	24.1438	132.6892	0.4865	33.2129	0.5448	33.7577	8.8823	0.5031	9.3854	0.0000	29,330.7042	29,330.7042	0.9884	0.0000	29,351.4615
Waste						0.0000	0.0000		0.0000	0.0000	126.0158	0.0000	126.0158	7.4473	0.0000	282.4095
Water						0.0000	0.0000		0.0000	0.0000	98.5874	888.3574	986.9447	10.1619	0.2463	1,276.6978
Total	**36.2115**	**27.0613**	**157.3360**	**0.5044**	**33.2129**	**0.9180**	**34.1309**	**8.8823**	**0.8760**	**9.7583**	**224.6031**	**37,767.2040**	**37,991.8071**	**18.8678**	**0.3438**	**38,494.6198**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**1.06**	**5.59**	**4.58**	**7.35**	**7.84**	**4.30**	**7.75**	**7.84**	**4.17**	**7.52**	**64.20**	**6.62**	**7.50**	**56.95**	**15.29**	**8.60**

2.3 Vegetation

Vegetation

	CO2e
Category	MT
Vegetation Land Change	-827.1843
Total	**-827.1843**

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	1/2/2011	12/31/2010	5	0	
2	Site Preparation	Site Preparation	1/2/2011	12/31/2010	5	0	
3	Grading	Grading	1/2/2011	12/31/2010	5	0	
4	Building Construction	Building Construction	1/2/2011	12/31/2010	5	0	
5	Paving	Paving	1/2/2011	12/31/2010	5	0	
6	Architectural Coating	Architectural Coating	1/2/2011	12/31/2010	5	0	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

Residential Indoor: 6,394,950; Residential Outdoor: 2,131,650; Non-Residential Indoor: 1,264,500; Non-Residential Outdoor: 421,500

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	1	6.00	78	0.48
Paving	Cement and Mortar Mixers	4	6.00	9	0.56
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Grading	Concrete/Industrial Saws	1	8.00	81	0.73

Building Construction	Cranes	1	4.00	226	0.29
Building Construction	Forklifts	2	6.00	89	0.20
Site Preparation	Graders	1	8.00	174	0.41
Paving	Pavers	1	7.00	125	0.42
Paving	Rollers	1	7.00	80	0.38
Demolition	Rubber Tired Dozers	1	1.00	255	0.40
Grading	Rubber Tired Dozers	1	1.00	255	0.40
Building Construction	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Demolition	Tractors/Loaders/Backhoes	2	6.00	97	0.37
Grading	Tractors/Loaders/Backhoes	2	6.00	97	0.37
Paving	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Site Preparation	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Demolition	Excavators	3	8.00	162	0.38
Grading	Excavators	2	8.00	162	0.38
Building Construction	Generator Sets	1	8.00	84	0.74
Grading	Graders	1	8.00	174	0.41
Paving	Paving Equipment	2	8.00	130	0.36
Site Preparation	Rubber Tired Dozers	3	8.00	255	0.40
Grading	Scrapers	2	8.00	361	0.48
Building Construction	Welders	1	8.00	46	0.45

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	7	10.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	5	5.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	9	10.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	7	0.00	476.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	9	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	0.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Increase Transit Accessibility

	ROG	NOx	CO	SO2	Fugitive 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	13.9786	24.1438	132.6892	0.4865	33.2129	0.5448	33.7577	8.8823	0.5031	9.3854	0.0000	29,330.7042	29,330.7042	0.9884	0.0000	29,351.4615
Unmitigated	14.3559	25.7434	140.0776	0.5265	36.0379	0.5850	36.6229	9.6378	0.5403	10.1780	0.0000	31,752.0693	31,752.0693	1.0644	0.0000	31,774.4223

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Condo/Townhouse	25,264.00	25,264.00	25264.00	72,136,384	66,481,613
Industrial Park	5,722.20	1,904.85	558.45	11,638,783	10,726,419
Regional Shopping Center	6,528.00	6,528.00	6528.00	11,445,574	10,548,355
Strip Mall	400.00	400.00	400.00	616,013	567,724
Total	37,914.20	34,096.85	32,750.45	95,836,754	88,324,111

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Condo/Townhouse	10.80	7.30	7.50	41.60	18.80	39.60	86	11	3
Industrial Park	9.50	7.30	7.30	59.00	28.00	13.00	79	19	2
Regional Shopping Center	9.50	7.30	7.30	16.30	64.70	19.00	54	35	11

Strip Mall	9.50	7.30	7.30	16.60	64.40	19.00	45	40	15

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.511899	0.073785	0.191337	0.129949	0.036287	0.005233	0.012831	0.024351	0.001922	0.001998	0.006506	0.000492	0.003409

5.0 Energy Detail

4.4 Fleet Mix

Historical Energy Use: N

5.1 Mitigation Measures Energy

Install Energy Efficient Appliances

	ROG	NOx	CO	SO2	Fugitive 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					
NaturalGas Mitigated	0.3051	2.6495	1.4186	0.0166		0.2108	0.2108		0.2108	0.2108	0.0000	3,019.6421	3,019.6421	0.0579	0.0554	3,038.0191
NaturalGas Unmitigated	0.3051	2.6495	1.4186	0.0166		0.2108	0.2108		0.2108	0.2108	0.0000	3,019.6421	3,019.6421	0.0579	0.0554	3,038.0191
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	4,012.7509	4,012.7509	0.1671	0.0334	4,026.6187
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	4,087.8763	4,087.8763	0.1702	0.0340	4,102.0037

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					
Condo/Townhouse	4.22574e+007	0.2279	1.9472	0.8286	0.0124		0.1574	0.1574		0.1574	0.1574	0.0000	2,255.0134	2,255.0134	0.0432	0.0413	2,268.7371
Industrial Park	1.3923e+007	0.0751	0.6825	0.5733	4.0900e-003		0.0519	0.0519		0.0519	0.0519	0.0000	742.9843	742.9843	0.0142	0.0136	747.5060
Regional Shopping Center	353600	1.9100e-003	0.0173	0.0146	1.0000e-004		1.3200e-003	1.3200e-003		1.3200e-003	1.3200e-003	0.0000	18.8694	18.8694	3.6000e-004	3.5000e-004	18.9843
Strip Mall	52000	2.8000e-004	2.5500e-003	2.1400e-003	2.0000e-005		1.9000e-004	1.9000e-004		1.9000e-004	1.9000e-004	0.0000	2.7749	2.7749	5.0000e-005	5.0000e-005	2.7918
Total		**0.3051**	**2.6495**	**1.4186**	**0.0166**		**0.2108**	**0.2108**		**0.2108**	**0.2108**	**0.0000**	**3,019.6421**	**3,019.6421**	**0.0579**	**0.0554**	**3,038.0191**

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					
Condo/Townhouse	4.22574e+007	0.2279	1.9472	0.8286	0.0124		0.1574	0.1574		0.1574	0.1574	0.0000	2,255.0134	2,255.0134	0.0432	0.0413	2,268.7371
Industrial Park	1.3923e+007	0.0751	0.6825	0.5733	4.0900e-003		0.0519	0.0519		0.0519	0.0519	0.0000	742.9843	742.9843	0.0142	0.0136	747.5060
Regional Shopping Center	353600	1.9100e-003	0.0173	0.0146	1.0000e-004		1.3200e-003	1.3200e-003		1.3200e-003	1.3200e-003	0.0000	18.8694	18.8694	3.6000e-004	3.5000e-004	18.9843
Strip Mall	52000	2.8000e-004	2.5500e-003	2.1400e-003	2.0000e-005		1.9000e-004	1.9000e-004		1.9000e-004	1.9000e-004	0.0000	2.7749	2.7749	5.0000e-005	5.0000e-005	2.7918
Total		**0.3051**	**2.6495**	**1.4186**	**0.0166**		**0.2108**	**0.2108**		**0.2108**	**0.2108**	**0.0000**	**3,019.6421**	**3,019.6421**	**0.0579**	**0.0554**	**3,038.0191**

5.3 Energy by Land Use - Electricity

Unmitigated

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

Condo/Townhouse	1.35353e+007	2,211.7604	0.0921	0.0184	2,219.4041
Industrial Park	1.05188e+007	1,718.8337	0.0716	0.0143	1,724.7739
Regional Shopping Center	839120	137.1178	5.7100e-003	1.1400e-003	137.5917
Strip Mall	123400	20.1644	8.4000e-004	1.7000e-004	20.2341
Total		**4,087.8763**	**0.1702**	**0.0340**	**4,102.0037**

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Condo/Townhouse	1.30756e+007	2,136.6350	0.0890	0.0178	2,144.0191
Industrial Park	1.05188e+007	1,718.8337	0.0716	0.0143	1,724.7739
Regional Shopping Center	839120	137.1178	5.7100e-003	1.1400e-003	137.5917
Strip Mall	123400	20.1644	8.4000e-004	1.7000e-004	20.2341
Total		**4,012.7509**	**0.1671**	**0.0334**	**4,026.6187**

6.0 Area Detail

6.1 Mitigation Measures Area

Use Electric Lawnmower

Use Electric Leafblower

Use Electric Chainsaw

	ROG	NOx	CO	SO2	Fugitive 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	21.9278	0.2680	23.2283	1.2300e-003		0.1624	0.1624		0.1621	0.1621	0.0000	515.7494	515.7494	0.0452	8.7600e-003	519.4133
Unmitigated	21.9376	0.2697	23.3969	1.2400e-003		0.1634	0.1634		0.1631	0.1631	0.0000	516.0946	516.0946	0.0457	8.7600e-003	519.7695

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	5.5632					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	15.6259					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0483	0.0000	2.6300e-003	0.0000		0.0334	0.0334		0.0330	0.0330	0.0000	477.7769	477.7769	9.1600e-003	8.7600e-003	480.6845
Landscaping	0.7002	0.2697	23.3943	1.2400e-003		0.1301	0.1301		0.1301	0.1301	0.0000	38.3178	38.3178	0.0365	0.0000	39.0850
Total	**21.9376**	**0.2697**	**23.3969**	**1.2400e-003**		**0.1634**	**0.1634**		**0.1631**	**0.1631**	**0.0000**	**516.0947**	**516.0947**	**0.0457**	**8.7600e-003**	**519.7695**

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	5.5632					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

Consumer Products	15.6259					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0483	0.0000	2.6300e-003	0.0000		0.0334	0.0334		0.0330	0.0330	0.0000	477.7769	477.7769	9.1600e-003	8.7600e-003	480.6845
Landscaping	0.6904	0.2680	23.2257	1.2300e-003		0.1291	0.1291		0.1291	0.1291	0.0000	37.9726	37.9726	0.0360	0.0000	38.7288
Total	**21.9278**	**0.2680**	**23.2283**	**1.2300e-003**		**0.1624**	**0.1624**		**0.1621**	**0.1621**	**0.0000**	**515.7494**	**515.7494**	**0.0452**	**8.7600e-003**	**519.4133**

7.0 Water Detail

7.1 Mitigation Measures Water

Install Low Flow Bathroom Faucet

Install Low Flow Kitchen Faucet

Install Low Flow Toilet

Install Low Flow Shower

Use Water Efficient Irrigation System

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Unmitigated	1,191.6471	12.7018	0.3078	1,553.7922
Mitigated	986.9447	10.1619	0.2463	1,276.6978

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e

Land Use	Mgal	MT/yr			
Condo/Townhouse	205.756 / 129.716	738.5613	6.7326	0.1639	930.7602
Industrial Park	176.906 / 0	432.5308	5.7802	0.1393	597.0808
Regional Shopping Center	5.03693 / 3.08715	17.9197	0.1648	4.0100e-003	22.6242
Strip Mall	0.740725 / 0.453993	2.6353	0.0242	5.9000e-004	3.3271
Total		**1,191.6471**	**12.7018**	**0.3078**	**1,553.7922**

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Condo/Townhouse	164.605 / 121.803	623.5825	5.3869	0.1313	777.4127
Industrial Park	141.525 / 0	346.0246	4.6237	0.1113	477.6285
Regional Shopping Center	4.02955 / 2.89884	15.1148	0.1319	3.2100e-003	18.8801
Strip Mall	0.59258 / 0.426299	2.2228	0.0194	4.7000e-004	2.7765
Total		**986.9447**	**10.1619**	**0.2463**	**1,276.6978**

8.0 Waste Detail

8.1 Mitigation Measures Waste

Institute Recycling and Composting Services

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	126.0158	7.4473	0.0000	282.4095
Unmitigated	504.0631	29.7893	0.0000	1,129.6379

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Condo/Townhouse	1452.68	294.8809	17.4270	0.0000	660.8471
Industrial Park	948.6	192.5572	11.3798	0.0000	431.5332
Regional Shopping Center	71.4	14.4936	0.8565	0.0000	32.4810
Strip Mall	10.5	2.1314	0.1260	0.0000	4.7766
Total		**504.0631**	**29.7893**	**0.0000**	**1,129.6379**

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e

Land Use	tons	MT/yr			
Condo/Townhouse	363.17	73.7202	4.3567	0.0000	165.2118
Industrial Park	237.15	48.1393	2.8450	0.0000	107.8833
Regional Shopping Center	17.85	3.6234	0.2141	0.0000	8.1203
Strip Mall	2.625	0.5329	0.0315	0.0000	1.1942
Total		**126.0158**	**7.4473**	**0.0000**	**282.4095**

9.0 Operational Offroad

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

10.0 Vegetation

	Total CO2	CH4	N2O	CO2e
Category	MT			
Unmitigated	-827.1843	0.0000	0.0000	-827.1843

10.1 Vegetation Land Change

Vegetation Type

	Initial/Final	Total CO2	CH4	N2O	CO2e
	Acres	MT			

Grassland	1.65 / 0	-7.1115	0.0000	0.0000	-7.1115
Grassland	239.91 / 51.33	-812.7798	0.0000	0.0000	-812.7798
Others	2.97 / 0	0.0000	0.0000	0.0000	0.0000
Others	7.26 / 0	0.0000	0.0000	0.0000	0.0000
Scrub	0.51 / 0	-7.2930	0.0000	0.0000	-7.2930
Wetlands	0.83 / 0.3	0.0000	0.0000	0.0000	0.0000
Total		**-827.1843**	**0.0000**	**0.0000**	**-827.1843**

East Otay Mesa Specific Plan Amendment without Title 24 reductions

San Diego Air Basin, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Industrial Park	765.00	1000sqft	47.72	765,000.00	0
Condo/Townhouse	3,158.00	Dwelling Unit	124.40	3,158,000.00	9032
Regional Shopping Center	68.00	1000sqft	6.80	68,000.00	0
Strip Mall	10.00	1000sqft	1.00	10,000.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.6	**Precipitation Freq (Days)**	40
Climate Zone	13			**Operational Year**	2030
Utility Company	San Diego Gas & Electric				
CO2 Intensity (lb/MWhr)	360.25	**CH4 Intensity (lb/MWhr)**	0.015	**N2O Intensity (lb/MWhr)**	0.003

1.3 User Entered Comments & Non-Default Data

Area Coating - Rule 67.0.1 coatings

Area Mitigation - statewide default

Table Name	Column Name	Default Value	New Value
tblAreaCoating	Area_EF_Nonresidential_Exterior	250	100
tblAreaCoating	Area_Nonresidential_Interior	1264500	906915
tblAreaMitigation	UseLowVOCPaintNonresidentialExteriorValue	100	0
tblAreaMitigation	UseLowVOCPaintNonresidentialInteriorValue	250	0
tblAreaMitigation	UseLowVOCPaintResidentialExteriorValue	250	0

tblAreaMitigation	UseLowVOCPaintResidentialInteriorValue	250	0
tblConstructionPhase	NumDays	220.00	0.00
tblConstructionPhase	NumDays	3,100.00	0.00
tblConstructionPhase	NumDays	200.00	0.00
tblConstructionPhase	NumDays	310.00	0.00
tblConstructionPhase	NumDays	220.00	0.00
tblConstructionPhase	NumDays	120.00	0.00
tblConstructionPhase	PhaseEndDate	12/30/2016	12/31/2010
tblConstructionPhase	PhaseStartDate	1/1/2011	1/2/2011
tblConstructionPhase	PhaseStartDate	1/1/2011	1/2/2011
tblConstructionPhase	PhaseStartDate	1/1/2017	1/2/2011
tblConstructionPhase	PhaseStartDate	1/1/2011	1/2/2011
tblConstructionPhase	PhaseStartDate	1/1/2011	1/2/2011
tblConstructionPhase	PhaseStartDate	1/1/2011	1/2/2011
tblEnergyUse	LightingElect	6.99	4.33
tblEnergyUse	LightingElect	6.99	4.33
tblEnergyUse	NT24E	3.16	4.97
tblEnergyUse	NT24E	3.16	4.97
tblEnergyUse	NT24NG	1.09	4.20
tblEnergyUse	NT24NG	1.09	4.20
tblEnergyUse	T24E	206.69	158.53
tblEnergyUse	T24E	5.69	4.45
tblEnergyUse	T24E	3.89	3.04
tblEnergyUse	T24E	3.89	3.04
tblEnergyUse	T24NG	10,789.48	10,379.48
tblEnergyUse	T24NG	16.83	14.00
tblEnergyUse	T24NG	1.20	1.00
tblEnergyUse	T24NG	1.20	1.00
tblFireplaces	FireplaceDayYear	82.00	30.00
tblFireplaces	NumberGas	1,736.90	1,658.00

tblFireplaces	NumberNoFireplace	315.80	1,500.00
tblFireplaces	NumberWood	1,105.30	0.00
tblLandUse	LotAcreage	17.56	47.72
tblLandUse	LotAcreage	197.38	124.40
tblLandUse	LotAcreage	1.56	6.80
tblLandUse	LotAcreage	0.23	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	1.00
tblOffRoadEquipment	UsageHours	7.00	4.00
tblOffRoadEquipment	UsageHours	8.00	6.00
tblOffRoadEquipment	UsageHours	8.00	7.00
tblOffRoadEquipment	UsageHours	8.00	7.00
tblOffRoadEquipment	UsageHours	8.00	1.00
tblOffRoadEquipment	UsageHours	8.00	1.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	8.00	6.00
tblProjectCharacteristics	CH4IntensityFactor	0.029	0.015
tblProjectCharacteristics	CO2IntensityFactor	720.49	360.25
tblProjectCharacteristics	N2OIntensityFactor	0.006	0.003
tblProjectCharacteristics	OperationalYear	2014	2030
tblTripsAndVMT	WorkerTripNumber	18.00	10.00
tblTripsAndVMT	WorkerTripNumber	13.00	5.00
tblTripsAndVMT	WorkerTripNumber	23.00	10.00
tblTripsAndVMT	WorkerTripNumber	2,620.00	0.00
tblTripsAndVMT	WorkerTripNumber	23.00	18.00
tblTripsAndVMT	WorkerTripNumber	524.00	0.00

tblVehicleEF	HHD	527.65	465.40
tblVehicleEF	HHD	1,539.30	1,541.16
tblVehicleEF	HHD	49.32	1.45
tblVehicleEF	LDA	214.98	203.37
tblVehicleEF	LDA	44.92	44.64
tblVehicleEF	LDT1	262.86	269.96
tblVehicleEF	LDT1	55.59	59.82
tblVehicleEF	LDT2	333.70	294.81
tblVehicleEF	LDT2	70.03	64.38
tblVehicleEF	LHD1	7.98	5.17
tblVehicleEF	LHD1	732.94	639.43
tblVehicleEF	LHD1	37.44	22.17
tblVehicleEF	LHD2	8.84	7.61
tblVehicleEF	LHD2	621.83	681.63
tblVehicleEF	LHD2	22.80	19.90
tblVehicleEF	MCY	159.00	88.29
tblVehicleEF	MCY	36.50	46.22
tblVehicleEF	MDV	444.83	396.54
tblVehicleEF	MDV	93.60	86.23
tblVehicleEF	MH	682.76	1,206.86
tblVehicleEF	MH	28.13	58.30
tblVehicleEF	MHD	572.80	26.04
tblVehicleEF	MHD	992.23	1,174.94
tblVehicleEF	MHD	49.32	11.54
tblVehicleEF	OBUS	533.35	60.45
tblVehicleEF	OBUS	1,039.18	1,307.62
tblVehicleEF	OBUS	32.73	46.11
tblVehicleEF	SBUS	570.74	135.95
tblVehicleEF	SBUS	1,001.09	1,066.59
tblVehicleEF	SBUS	115.30	35.25

tblVehicleEF	UBUS	1,893.89	1,813.97
tblVehicleEF	UBUS	22.78	130.70
tblVehicleTrips	ST_TR	7.16	8.00
tblVehicleTrips	ST_TR	49.97	96.00
tblVehicleTrips	ST_TR	42.04	40.00
tblVehicleTrips	SU_TR	6.07	8.00
tblVehicleTrips	SU_TR	25.24	96.00
tblVehicleTrips	SU_TR	20.43	40.00
tblVehicleTrips	WD_TR	6.59	8.00
tblVehicleTrips	WD_TR	6.96	7.48
tblVehicleTrips	WD_TR	42.94	96.00
tblVehicleTrips	WD_TR	44.32	40.00
tblWoodstoves	NumberCatalytic	157.90	0.00
tblWoodstoves	NumberNoncatalytic	157.90	0.00

2.0 Emissions Summary

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

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	127.1035	2.9965	260.1117	0.0138		3.6688	3.6688		3.6454	3.6454	0.0000	35,579.90 09	35,579.900 9	1.1204	0.6437	35,802.974 2
Energy	1.6719	14.5180	7.7730	0.0912		1.1551	1.1551		1.1551	1.1551		18,238.82 54	18,238.825 4	0.3496	0.3344	18,349.823 9

Mobile	82.4133	138.3950	780.3055	3.1291	209.8964	3.3267	213.2231	56.0249	3.0723	59.0972		219,887.5563	219,887.5563	6.6770		220,027.7723
Total	**211.1887**	**155.9095**	**1,048.1902**	**3.2340**	**209.8964**	**8.1507**	**218.0471**	**56.0249**	**7.8729**	**63.8978**	**0.0000**	**273,706.2826**	**273,706.2826**	**8.1469**	**0.9781**	**274,180.5704**

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	126.9939	2.9781	258.2384	0.0136		3.6578	3.6578		3.6344	3.6344	0.0000	35,575.6727	35,575.6727	1.1140	0.6437	35,798.6118
Energy	1.6719	14.5180	7.7730	0.0912		1.1551	1.1551		1.1551	1.1551		18,238.8254	18,238.8254	0.3496	0.3344	18,349.8239
Mobile	82.4133	138.3950	780.3055	3.1291	209.8964	3.3267	213.2231	56.0249	3.0723	59.0972		219,887.5563	219,887.5563	6.6770		220,027.7723
Total	**211.0791**	**155.8911**	**1,046.3168**	**3.2339**	**209.8964**	**8.1396**	**218.0361**	**56.0249**	**7.8619**	**63.8868**	**0.0000**	**273,702.0544**	**273,702.0544**	**8.1405**	**0.9781**	**274,176.2079**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.05**	**0.01**	**0.18**	**0.00**	**0.00**	**0.14**	**0.01**	**0.00**	**0.14**	**0.02**	**0.00**	**0.00**	**0.00**	**0.08**	**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	1/2/2011	12/31/2010	5	0	
2	Site Preparation	Site Preparation	1/2/2011	12/31/2010	5	0	
3	Grading	Grading	1/2/2011	12/31/2010	5	0	
4	Building Construction	Building Construction	1/2/2011	12/31/2010	5	0	
5	Paving	Paving	1/2/2011	12/31/2010	5	0	

6	Architectural Coating	Architectural Coating	1/2/2011	12/31/2010	5	0	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

Residential Indoor: 6,394,950; Residential Outdoor: 2,131,650; Non-Residential Indoor: 1,264,500; Non-Residential Outdoor: 421,500

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	1	6.00	78	0.48
Paving	Cement and Mortar Mixers	4	6.00	9	0.56
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Grading	Concrete/Industrial Saws	1	8.00	81	0.73
Building Construction	Cranes	1	4.00	226	0.29
Building Construction	Forklifts	2	6.00	89	0.20
Site Preparation	Graders	1	8.00	174	0.41
Paving	Pavers	1	7.00	125	0.42
Paving	Rollers	1	7.00	80	0.38
Demolition	Rubber Tired Dozers	1	1.00	255	0.40
Grading	Rubber Tired Dozers	1	1.00	255	0.40
Building Construction	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Demolition	Tractors/Loaders/Backhoes	2	6.00	97	0.37
Grading	Tractors/Loaders/Backhoes	2	6.00	97	0.37
Paving	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Site Preparation	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Demolition	Excavators	3	8.00	162	0.38
Grading	Excavators	2	8.00	162	0.38
Building Construction	Generator Sets	1	8.00	84	0.74
Grading	Graders	1	8.00	174	0.41
Paving	Paving Equipment	2	8.00	130	0.36

Site Preparation	Rubber Tired Dozers	3	8.00	255	0.40
Grading	Scrapers	2	8.00	361	0.48
Building Construction	Welders	1	8.00	46	0.45

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	7	10.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	5	5.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	9	10.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	7	0.00	476.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	9	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	0.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Unmitigated	82.4133	138.3950	780.3055	3.1291	209.8964	3.3267	213.2231	56.0249	3.0723	59.0972		219,887.5563	219,887.5563	6.6770		220,027.7723
Mitigated	82.4133	138.3950	780.3055	3.1291	209.8964	3.3267	213.2231	56.0249	3.0723	59.0972		219,887.5563	219,887.5563	6.6770		220,027.7723

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Condo/Townhouse	25,264.00	25,264.00	25264.00	72,136,384	72,136,384
Industrial Park	5,722.20	1,904.85	558.45	11,638,783	11,638,783
Regional Shopping Center	6,528.00	6,528.00	6528.00	11,445,574	11,445,574
Strip Mall	400.00	400.00	400.00	616,013	616,013
Total	37,914.20	34,096.85	32,750.45	95,836,754	95,836,754

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Condo/Townhouse	10.80	7.30	7.50	41.60	18.80	39.60	86	11	3
Industrial Park	9.50	7.30	7.30	59.00	28.00	13.00	79	19	2
Regional Shopping Center	9.50	7.30	7.30	16.30	64.70	19.00	54	35	11
Strip Mall	9.50	7.30	7.30	16.60	64.40	19.00	45	40	15

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.511899	0.073785	0.191337	0.129949	0.036287	0.005233	0.012831	0.024351	0.001922	0.001998	0.006506	0.000492	0.003409

5.0 Energy Detail

4.4 Fleet Mix

Historical Energy Use: N

5.1 Mitigation Measures Energy

Install Energy Efficient Appliances

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	1.6719	14.5180	7.7730	0.0912		1.1551	1.1551		1.1551	1.1551		18,238.8254	18,238.8254	0.3496	0.3344	18,349.8239
NaturalGas Unmitigated	1.6719	14.5180	7.7730	0.0912		1.1551	1.1551		1.1551	1.1551		18,238.8254	18,238.8254	0.3496	0.3344	18,349.8239

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					
Condo/Townhouse	115774	1.2485	10.6693	4.5401	0.0681		0.8626	0.8626		0.8626	0.8626		13,620.4209	13,620.4209	0.2611	0.2497	13,703.3125
Industrial Park	38145.2	0.4114	3.7397	3.1414	0.0224		0.2842	0.2842		0.2842	0.2842		4,487.6712	4,487.6712	0.0860	0.0823	4,514.9825
Regional Shopping Center	968.767	0.0105	0.0950	0.0798	5.7000e-004		7.2200e-003	7.2200e-003		7.2200e-003	7.2200e-003		113.9726	113.9726	2.1800e-003	2.0900e-003	114.6662
Strip Mall	142.466	1.5400e-003	0.0140	0.0117	8.0000e-005		1.0600e-003	1.0600e-003		1.0600e-003	1.0600e-003		16.7607	16.7607	3.2000e-004	3.1000e-004	16.8627
Total		**1.6719**	**14.5180**	**7.7730**	**0.0912**		**1.1551**	**1.1551**		**1.1551**	**1.1551**		**18,238.8254**	**18,238.8254**	**0.3496**	**0.3344**	**18,349.8239**

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					
Condo/Townhouse	115.774	1.2485	10.6693	4.5401	0.0681		0.8626	0.8626		0.8626	0.8626		13,620.4209	13,620.4209	0.2611	0.2497	13,703.3125
Industrial Park	38.1452	0.4114	3.7397	3.1414	0.0224		0.2842	0.2842		0.2842	0.2842		4,487.6712	4,487.6712	0.0860	0.0823	4,514.9825
Regional Shopping Center	0.968767	0.0105	0.0950	0.0798	5.7000e-004		7.2200e-003	7.2200e-003		7.2200e-003	7.2200e-003		113.9726	113.9726	2.1800e-003	2.0900e-003	114.6662

Strip Mall	0.142466	1.5400e-003	0.0140	0.0117	8.0000e-005		1.0600e-003	1.0600e-003		1.0600e-003	1.0600e-003		16.7607	16.7607	3.2000e-004	3.1000e-004	16.8627
Total		**1.6719**	**14.5180**	**7.7730**	**0.0912**		**1.1551**	**1.1551**		**1.1551**	**1.1551**		**18,238.8254**	**18,238.8254**	**0.3496**	**0.3344**	**18,349.8239**

6.0 Area Detail

6.1 Mitigation Measures Area

Use Electric Lawnmower

Use Electric Leafblower

Use Electric Chainsaw

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Unmitigated	127.1035	2.9965	260.1117	0.0138		3.6688	3.6688		3.6454	3.6454	0.0000	35,579.9009	35,579.9009	1.1204	0.6437	35,802.9742
Mitigated	126.9939	2.9781	258.2384	0.0136		3.6578	3.6578		3.6344	3.6344	0.0000	35,575.6727	35,575.6727	1.1140	0.6437	35,798.6118

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	30.4834					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	85.6214					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000

Hearth	3.2185	1.5000e-004	0.1756	0.0000		2.2237	2.2237		2.2003	2.2003	0.0000	35,110.5882	35,110.5882	0.6730	0.6437	35,324.2654
Landscaping	7.7802	2.9964	259.9361	0.0138		1.4452	1.4452		1.4452	1.4452		469.3127	469.3127	0.4474		478.7088
Total	**127.1035**	**2.9965**	**260.1117**	**0.0138**		**3.6688**	**3.6688**		**3.6454**	**3.6454**	**0.0000**	**35,579.9009**	**35,579.9009**	**1.1204**	**0.6437**	**35,802.9742**

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	30.4834					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	85.6214					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	3.2185	1.5000e-004	0.1756	0.0000		2.2237	2.2237		2.2003	2.2003	0.0000	35,110.5882	35,110.5882	0.6730	0.6437	35,324.2654
Landscaping	7.6706	2.9780	258.0628	0.0136		1.4342	1.4342		1.4342	1.4342		465.0845	465.0845	0.4410		474.3463
Total	**126.9939**	**2.9781**	**258.2383**	**0.0136**		**3.6578**	**3.6578**		**3.6344**	**3.6344**	**0.0000**	**35,575.6727**	**35,575.6727**	**1.1140**	**0.6437**	**35,798.6118**

7.0 Water Detail

7.1 Mitigation Measures Water

Install Low Flow Bathroom Faucet

Install Low Flow Kitchen Faucet

Install Low Flow Toilet

Install Low Flow Shower

Use Water Efficient Irrigation System

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 Vegetation

East Otay Mesa Specific Plan Amendment without Title 24 reductions

San Diego Air Basin, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Industrial Park	765.00	1000sqft	47.72	765,000.00	0
Condo/Townhouse	3,158.00	Dwelling Unit	124.40	3,158,000.00	9032
Regional Shopping Center	68.00	1000sqft	6.80	68,000.00	0
Strip Mall	10.00	1000sqft	1.00	10,000.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.6	**Precipitation Freq (Days)**	40
Climate Zone	13			**Operational Year**	2030
Utility Company	San Diego Gas & Electric				
CO2 Intensity (lb/MWhr)	360.25	**CH4 Intensity (lb/MWhr)**	0.015	**N2O Intensity (lb/MWhr)**	0.003

1.3 User Entered Comments & Non-Default Data

Area Coating - Rule 67.0.1 coatings

Area Mitigation - statewide default

Table Name	Column Name	Default Value	New Value
tblAreaCoating	Area_EF_Nonresidential_Exterior	250	100
tblAreaCoating	Area_Nonresidential_Interior	1264500	906915
tblAreaMitigation	UseLowVOCPaintNonresidentialExteriorValue	100	0
tblAreaMitigation	UseLowVOCPaintNonresidentialInteriorValue	250	0
tblAreaMitigation	UseLowVOCPaintResidentialExteriorValue	250	0

tblAreaMitigation	UseLowVOCPaintResidentialInteriorValue	250	0
tblConstructionPhase	NumDays	220.00	0.00
tblConstructionPhase	NumDays	3,100.00	0.00
tblConstructionPhase	NumDays	200.00	0.00
tblConstructionPhase	NumDays	310.00	0.00
tblConstructionPhase	NumDays	220.00	0.00
tblConstructionPhase	NumDays	120.00	0.00
tblConstructionPhase	PhaseEndDate	12/30/2016	12/31/2010
tblConstructionPhase	PhaseStartDate	1/1/2011	1/2/2011
tblConstructionPhase	PhaseStartDate	1/1/2011	1/2/2011
tblConstructionPhase	PhaseStartDate	1/1/2017	1/2/2011
tblConstructionPhase	PhaseStartDate	1/1/2011	1/2/2011
tblConstructionPhase	PhaseStartDate	1/1/2011	1/2/2011
tblConstructionPhase	PhaseStartDate	1/1/2011	1/2/2011
tblEnergyUse	LightingElect	6.99	4.33
tblEnergyUse	LightingElect	6.99	4.33
tblEnergyUse	NT24E	3.16	4.97
tblEnergyUse	NT24E	3.16	4.97
tblEnergyUse	NT24NG	1.09	4.20
tblEnergyUse	NT24NG	1.09	4.20
tblEnergyUse	T24E	206.69	158.53
tblEnergyUse	T24E	5.69	4.45
tblEnergyUse	T24E	3.89	3.04
tblEnergyUse	T24E	3.89	3.04
tblEnergyUse	T24NG	10,789.48	10,379.48
tblEnergyUse	T24NG	16.83	14.00
tblEnergyUse	T24NG	1.20	1.00
tblEnergyUse	T24NG	1.20	1.00
tblFireplaces	FireplaceDayYear	82.00	30.00
tblFireplaces	NumberGas	1,736.90	1,658.00

tblFireplaces	NumberNoFireplace	315.80	1,500.00
tblFireplaces	NumberWood	1,105.30	0.00
tblLandUse	LotAcreage	17.56	47.72
tblLandUse	LotAcreage	197.38	124.40
tblLandUse	LotAcreage	1.56	6.80
tblLandUse	LotAcreage	0.23	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	1.00
tblOffRoadEquipment	UsageHours	7.00	4.00
tblOffRoadEquipment	UsageHours	8.00	6.00
tblOffRoadEquipment	UsageHours	8.00	7.00
tblOffRoadEquipment	UsageHours	8.00	7.00
tblOffRoadEquipment	UsageHours	8.00	1.00
tblOffRoadEquipment	UsageHours	8.00	1.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	8.00	6.00
tblProjectCharacteristics	CH4IntensityFactor	0.029	0.015
tblProjectCharacteristics	CO2IntensityFactor	720.49	360.25
tblProjectCharacteristics	N2OIntensityFactor	0.006	0.003
tblProjectCharacteristics	OperationalYear	2014	2030
tblTripsAndVMT	WorkerTripNumber	18.00	10.00
tblTripsAndVMT	WorkerTripNumber	13.00	5.00
tblTripsAndVMT	WorkerTripNumber	23.00	10.00
tblTripsAndVMT	WorkerTripNumber	2,620.00	0.00
tblTripsAndVMT	WorkerTripNumber	23.00	18.00
tblTripsAndVMT	WorkerTripNumber	524.00	0.00

tblVehicleEF	HHD	527.65	465.40
tblVehicleEF	HHD	1,539.30	1,541.16
tblVehicleEF	HHD	49.32	1.45
tblVehicleEF	LDA	214.98	203.37
tblVehicleEF	LDA	44.92	44.64
tblVehicleEF	LDT1	262.86	269.96
tblVehicleEF	LDT1	55.59	59.82
tblVehicleEF	LDT2	333.70	294.81
tblVehicleEF	LDT2	70.03	64.38
tblVehicleEF	LHD1	7.98	5.17
tblVehicleEF	LHD1	732.94	639.43
tblVehicleEF	LHD1	37.44	22.17
tblVehicleEF	LHD2	8.84	7.61
tblVehicleEF	LHD2	621.83	681.63
tblVehicleEF	LHD2	22.80	19.90
tblVehicleEF	MCY	159.00	88.29
tblVehicleEF	MCY	36.50	46.22
tblVehicleEF	MDV	444.83	396.54
tblVehicleEF	MDV	93.60	86.23
tblVehicleEF	MH	682.76	1,206.86
tblVehicleEF	MH	28.13	58.30
tblVehicleEF	MHD	572.80	26.04
tblVehicleEF	MHD	992.23	1,174.94
tblVehicleEF	MHD	49.32	11.54
tblVehicleEF	OBUS	533.35	60.45
tblVehicleEF	OBUS	1,039.18	1,307.62
tblVehicleEF	OBUS	32.73	46.11
tblVehicleEF	SBUS	570.74	135.95
tblVehicleEF	SBUS	1,001.09	1,066.59
tblVehicleEF	SBUS	115.30	35.25

tblVehicleEF	UBUS	1,893.89	1,813.97
tblVehicleEF	UBUS	22.78	130.70
tblVehicleTrips	ST_TR	7.16	8.00
tblVehicleTrips	ST_TR	49.97	96.00
tblVehicleTrips	ST_TR	42.04	40.00
tblVehicleTrips	SU_TR	6.07	8.00
tblVehicleTrips	SU_TR	25.24	96.00
tblVehicleTrips	SU_TR	20.43	40.00
tblVehicleTrips	WD_TR	6.59	8.00
tblVehicleTrips	WD_TR	6.96	7.48
tblVehicleTrips	WD_TR	42.94	96.00
tblVehicleTrips	WD_TR	44.32	40.00
tblWoodstoves	NumberCatalytic	157.90	0.00
tblWoodstoves	NumberNoncatalytic	157.90	0.00

2.0 Emissions Summary

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

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	127.1035	2.9965	260.1117	0.0138		3.6688	3.6688		3.6454	3.6454	0.0000	35,579.90 09	35,579.900 9	1.1204	0.6437	35,802.974 2
Energy	1.6719	14.5180	7.7730	0.0912		1.1551	1.1551		1.1551	1.1551		18,238.82 54	18,238.825 4	0.3496	0.3344	18,349.823 9

Mobile	86.9270	147.0555	820.1564	2.9730	209.8964	3.3372	213.2337	56.0249	3.0820	59.1069		209,623.5004	209,623.5004	6.6868		209,763.9221
Total	**215.7024**	**164.5700**	**1,088.0411**	**3.0779**	**209.8964**	**8.1612**	**218.0576**	**56.0249**	**7.8826**	**63.9075**	**0.0000**	**263,442.2267**	**263,442.2267**	**8.1567**	**0.9781**	**263,916.7202**

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	126.9939	2.9781	258.2384	0.0136		3.6578	3.6578		3.6344	3.6344	0.0000	35,575.6727	35,575.6727	1.1140	0.6437	35,798.6118
Energy	1.6719	14.5180	7.7730	0.0912		1.1551	1.1551		1.1551	1.1551		18,238.8254	18,238.8254	0.3496	0.3344	18,349.8239
Mobile	86.9270	147.0555	820.1564	2.9730	209.8964	3.3372	213.2337	56.0249	3.0820	59.1069		209,623.5004	209,623.5004	6.6868		209,763.9221
Total	**215.5928**	**164.5516**	**1,086.1678**	**3.0778**	**209.8964**	**8.1502**	**218.0466**	**56.0249**	**7.8716**	**63.8965**	**0.0000**	**263,437.9985**	**263,437.9985**	**8.1503**	**0.9781**	**263,912.3577**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.05**	**0.01**	**0.17**	**0.00**	**0.00**	**0.13**	**0.01**	**0.00**	**0.14**	**0.02**	**0.00**	**0.00**	**0.00**	**0.08**	**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	1/2/2011	12/31/2010	5	0	
2	Site Preparation	Site Preparation	1/2/2011	12/31/2010	5	0	
3	Grading	Grading	1/2/2011	12/31/2010	5	0	
4	Building Construction	Building Construction	1/2/2011	12/31/2010	5	0	
5	Paving	Paving	1/2/2011	12/31/2010	5	0	

6	Architectural Coating	Architectural Coating	1/2/2011	12/31/2010	5	0	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

Residential Indoor: 6,394,950; Residential Outdoor: 2,131,650; Non-Residential Indoor: 1,264,500; Non-Residential Outdoor: 421,500

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	1	6.00	78	0.48
Paving	Cement and Mortar Mixers	4	6.00	9	0.56
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Grading	Concrete/Industrial Saws	1	8.00	81	0.73
Building Construction	Cranes	1	4.00	226	0.29
Building Construction	Forklifts	2	6.00	89	0.20
Site Preparation	Graders	1	8.00	174	0.41
Paving	Pavers	1	7.00	125	0.42
Paving	Rollers	1	7.00	80	0.38
Demolition	Rubber Tired Dozers	1	1.00	255	0.40
Grading	Rubber Tired Dozers	1	1.00	255	0.40
Building Construction	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Demolition	Tractors/Loaders/Backhoes	2	6.00	97	0.37
Grading	Tractors/Loaders/Backhoes	2	6.00	97	0.37
Paving	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Site Preparation	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Demolition	Excavators	3	8.00	162	0.38
Grading	Excavators	2	8.00	162	0.38
Building Construction	Generator Sets	1	8.00	84	0.74
Grading	Graders	1	8.00	174	0.41
Paving	Paving Equipment	2	8.00	130	0.36

Site Preparation	Rubber Tired Dozers	3	8.00	255	0.40
Grading	Scrapers	2	8.00	361	0.48
Building Construction	Welders	1	8.00	46	0.45

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	7	10.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	5	5.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	9	10.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	7	0.00	476.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	9	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	0.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Unmitigated	86.9270	147.0555	820.1564	2.9730	209.8964	3.3372	213.2337	56.0249	3.0820	59.1069		209,623.5004	209,623.5004	6.6868		209,763.9221
Mitigated	86.9270	147.0555	820.1564	2.9730	209.8964	3.3372	213.2337	56.0249	3.0820	59.1069		209,623.5004	209,623.5004	6.6868		209,763.9221

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Condo/Townhouse	25,264.00	25,264.00	25264.00	72,136,384	72,136,384
Industrial Park	5,722.20	1,904.85	558.45	11,638,783	11,638,783
Regional Shopping Center	6,528.00	6,528.00	6528.00	11,445,574	11,445,574
Strip Mall	400.00	400.00	400.00	616,013	616,013
Total	37,914.20	34,096.85	32,750.45	95,836,754	95,836,754

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Condo/Townhouse	10.80	7.30	7.50	41.60	18.80	39.60	86	11	3
Industrial Park	9.50	7.30	7.30	59.00	28.00	13.00	79	19	2
Regional Shopping Center	9.50	7.30	7.30	16.30	64.70	19.00	54	35	11
Strip Mall	9.50	7.30	7.30	16.60	64.40	19.00	45	40	15

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.511899	0.073785	0.191337	0.129949	0.036287	0.005233	0.012831	0.024351	0.001922	0.001998	0.006506	0.000492	0.003409

5.0 Energy Detail

4.4 Fleet Mix

Historical Energy Use: N

5.1 Mitigation Measures Energy

Install Energy Efficient Appliances

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	1.6719	14.5180	7.7730	0.0912		1.1551	1.1551		1.1551	1.1551		18,238.8254	18,238.8254	0.3496	0.3344	18,349.8239
NaturalGas Unmitigated	1.6719	14.5180	7.7730	0.0912		1.1551	1.1551		1.1551	1.1551		18,238.8254	18,238.8254	0.3496	0.3344	18,349.8239

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					
Condo/Townhouse	115774	1.2485	10.6693	4.5401	0.0681		0.8626	0.8626		0.8626	0.8626		13,620.4209	13,620.4209	0.2611	0.2497	13,703.3125
Industrial Park	38145.2	0.4114	3.7397	3.1414	0.0224		0.2842	0.2842		0.2842	0.2842		4,487.6712	4,487.6712	0.0860	0.0823	4,514.9825
Regional Shopping Center	968.767	0.0105	0.0950	0.0798	5.7000e-004		7.2200e-003	7.2200e-003		7.2200e-003	7.2200e-003		113.9726	113.9726	2.1800e-003	2.0900e-003	114.6662
Strip Mall	142.466	1.5400e-003	0.0140	0.0117	8.0000e-005		1.0600e-003	1.0600e-003		1.0600e-003	1.0600e-003		16.7607	16.7607	3.2000e-004	3.1000e-004	16.8627
Total		**1.6719**	**14.5180**	**7.7730**	**0.0912**		**1.1551**	**1.1551**		**1.1551**	**1.1551**		**18,238.8254**	**18,238.8254**	**0.3496**	**0.3344**	**18,349.8239**

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					
Condo/Townhouse	115.774	1.2485	10.6693	4.5401	0.0681		0.8626	0.8626		0.8626	0.8626		13,620.4209	13,620.4209	0.2611	0.2497	13,703.3125
Industrial Park	38.1452	0.4114	3.7397	3.1414	0.0224		0.2842	0.2842		0.2842	0.2842		4,487.6712	4,487.6712	0.0860	0.0823	4,514.9825
Regional Shopping Center	0.968767	0.0105	0.0950	0.0798	5.7000e-004		7.2200e-003	7.2200e-003		7.2200e-003	7.2200e-003		113.9726	113.9726	2.1800e-003	2.0900e-003	114.6662

Strip Mall	0.142466	1.5400e-003	0.0140	0.0117	8.0000e-005		1.0600e-003	1.0600e-003		1.0600e-003	1.0600e-003		16.7607	16.7607	3.2000e-004	3.1000e-004	16.8627
Total		**1.6719**	**14.5180**	**7.7730**	**0.0912**		**1.1551**	**1.1551**		**1.1551**	**1.1551**		**18,238.8254**	**18,238.8254**	**0.3496**	**0.3344**	**18,349.8239**

6.0 Area Detail

6.1 Mitigation Measures Area

Use Electric Lawnmower

Use Electric Leafblower

Use Electric Chainsaw

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	126.9939	2.9781	258.2384	0.0136		3.6578	3.6578		3.6344	3.6344	0.0000	35,575.6727	35,575.6727	1.1140	0.6437	35,798.6118
Unmitigated	127.1035	2.9965	260.1117	0.0138		3.6688	3.6688		3.6454	3.6454	0.0000	35,579.9009	35,579.9009	1.1204	0.6437	35,802.9742

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	30.4834					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	85.6214					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000

Hearth	3.2185	1.5000e-004	0.1756	0.0000		2.2237	2.2237		2.2003	2.2003	0.0000	35,110.5882	35,110.5882	0.6730	0.6437	35,324.2654
Landscaping	7.7802	2.9964	259.9361	0.0138		1.4452	1.4452		1.4452	1.4452		469.3127	469.3127	0.4474		478.7088
Total	**127.1035**	**2.9965**	**260.1117**	**0.0138**		**3.6688**	**3.6688**		**3.6454**	**3.6454**	**0.0000**	**35,579.9009**	**35,579.9009**	**1.1204**	**0.6437**	**35,802.9742**

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	30.4834					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	85.6214					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	3.2185	1.5000e-004	0.1756	0.0000		2.2237	2.2237		2.2003	2.2003	0.0000	35,110.5882	35,110.5882	0.6730	0.6437	35,324.2654
Landscaping	7.6706	2.9780	258.0628	0.0136		1.4342	1.4342		1.4342	1.4342		465.0845	465.0845	0.4410		474.3463
Total	**126.9939**	**2.9781**	**258.2383**	**0.0136**		**3.6578**	**3.6578**		**3.6344**	**3.6344**	**0.0000**	**35,575.6727**	**35,575.6727**	**1.1140**	**0.6437**	**35,798.6118**

7.0 Water Detail

7.1 Mitigation Measures Water

Install Low Flow Bathroom Faucet

Install Low Flow Kitchen Faucet

Install Low Flow Toilet

Install Low Flow Shower

Use Water Efficient Irrigation System

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 Vegetation

Appendix B

Construction Health Risk Calculations

AERMOD Model Output

Table B-1
Calculation of Construction Health Risks
East Otay Mesa Specific Plan Amendment

DPM Concentration ug/m3	Dose air 3rd trimester	Dose air 0-2	Dose air 2-16	Dose air 16-30	Cancer Risk, Adjusted for duration of construction activities	Non-Cancer HI
0.04599	1.59383E-05	4.81239E-05	3.2892E-05	1.47904E-05	5.2323E-06	0.009198

**BEE-Line Software: BEEST Suite (Version 11.04) data input file
** Model: AERMOD.EXE   Input File Creation Date: 8/29/2016 Time: 4:02:26 PM
NO ECHO

  BEE-Line AERMOD "BEEST" Version ****

  Input File - F:\BEEST\East Otay Mesa SPA\EOM Construction HRA 082916.DTA

 Output File - F:\BEEST\East Otay Mesa SPA\EOM Construction HRA 082916.LST

    Met File - F:\MetData\SANDAG\Otay_2012_v14134.SFC

  *** Message Summary For AERMOD Model Setup ***

  --------- Summary of Total Messages --------

 A Total of   0 Fatal Error Message(s)
 A Total of   1 Warning Message(s)
 A Total of   0 Informational Message(s)

    ******** FATAL ERROR MESSAGES ********
              *** NONE ***

    ********   WARNING MESSAGES   ********
 CO W320   11   URBOPT: Input Parameter May Be Out-of-Range for Parameter
   URB-POP

 ****
 *** SETUP Finishes Successfully ***
 ****

 *** AERMOD - VERSION 15181 ***   *** East Otay Mesa Specific Plan Amendment
                          ***   08/29/16
 *** AERMET - VERSION 14134 ***   *** Construction Health Risk Assessment
                         ***   16:02:27

```
 **MODELOPTs:   RegDFAULT CONC      ELEV      NODRYDPLT NOWETDPLT URBAN

                                          ***     MODEL SETUP OPTIONS SUMMARY
  ***
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - -

 **Model Is Setup For Calculation of Average CONCentration Values.

   --  DEPOSITION LOGIC  --
 **NO GAS DEPOSITION Data Provided.
 **NO PARTICLE DEPOSITION Data Provided.
 **Model Uses NO DRY DEPLETION.  DRYDPLT  =  F
 **Model Uses NO WET DEPLETION.  WETDPLT  =  F

 **Model Uses URBAN Dispersion Algorithm for the SBL for   266 Source(s),
   for Total of    1 Urban Area(s):
   Urban Population =     17865.0 ;  Urban Roughness Length =  1.000 m

 **Model Uses Regulatory DEFAULT Options:
        1. Stack-tip Downwash.
        2. Model Accounts for ELEVated Terrain Effects.
        3. Use Calms Processing Routine.
        4. Use Missing Data Processing Routine.
        5. No Exponential Decay.
        6. Urban Roughness Length of 1.0 Meter Assumed.

 **Other Options Specified:
        CCVR_Sub - Meteorological data includes CCVR substitutions
        TEMP_Sub - Meteorological data includes TEMP substitutions

 **Model Assumes No FLAGPOLE Receptor Heights.

 **The User Specified a Pollutant Type of:  OTHER

 **Model Calculates PERIOD Averages Only

 **This Run Includes:    266 Source(s);       1 Source Group(s); and       4
Receptor(s)

                with:      0 POINT(s), including
                           0 POINTCAP(s) and      0 POINTHOR(s)
                 and:    266 VOLUME source(s)
                 and:      0 AREA type source(s)
                 and:      0 LINE source(s)
                 and:      0 OPENPIT source(s)
```

**Model Set To Continue RUNning After the Setup Testing.

**The AERMET Input Meteorological Data Version Date: 14134

**Output Options Selected:
Model Outputs Tables of PERIOD Averages by Receptor
Model Outputs External File(s) of High Values for Plotting (PLOTFILE Keyword)
Model Outputs Separate Summary File of High Ranked Values (SUMMFILE Keyword)

**NOTE: The Following Flags May Appear Following CONC Values: c for Calm Hours
m for Missing Hours
b for Both Calm and Missing Hours

**Misc. Inputs: Base Elev. for Pot. Temp. Profile (m MSL) = 54.86 ; Decay Coef. = 0.000 ; Rot. Angle = 0.0
Emission Units = GRAMS/SEC ;
Emission Rate Unit Factor = 0.10000E+07
Output Units = MICROGRAMS/M**3

**Approximate Storage Requirements of Model = 3.6 MB of RAM.

**Input Runstream File: EOM Construction HRA 082916.DTA

**Output Print File: EOM Construction HRA 082916.LST

**File for Summary of Results: F:\BEEST\East Otay Mesa SPA\EOM Construction HRA 082916.SUM

**MODELOPTs: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT URBAN

*** VOLUME SOURCE DATA ***

SOURCE	NUMBER PART.	EMISSION RATE (GRAMS/SEC)	X	Y	BASE ELEV.	RELEASE HEIGHT	INIT. SY	INIT. SZ	URBAN SOURCE	EMISSION RATE SCALAR VARY

ID	CATS.		(METERS)	(METERS)	(METERS)	(METERS)	(METERS)	(METERS)	BY
CON1		0	0.35860E-04	504975.0	3603425.0	161.8	3.05	11.63	4.65	YES
CON2		0	0.35860E-04	505025.0	3603425.0	162.6	3.05	11.63	4.65	YES
CON3		0	0.35860E-04	505075.0	3603425.0	163.6	3.05	11.63	4.65	YES
CON4		0	0.35860E-04	505125.0	3603425.0	164.1	3.05	11.63	4.65	YES
CON5		0	0.35860E-04	505175.0	3603425.0	165.0	3.05	11.63	4.65	YES
CON6		0	0.35860E-04	505225.0	3603425.0	165.8	3.05	11.63	4.65	YES
CON7		0	0.35860E-04	505275.0	3603425.0	166.1	3.05	11.63	4.65	YES
CON8		0	0.35860E-04	505325.0	3603425.0	166.6	3.05	11.63	4.65	YES
CON9		0	0.35860E-04	505375.0	3603425.0	165.9	3.05	11.63	4.65	YES
CON10		0	0.35860E-04	505425.0	3603425.0	165.5	3.05	11.63	4.65	YES
CON11		0	0.35860E-04	505475.0	3603425.0	164.1	3.05	11.63	4.65	YES
CON12		0	0.35860E-04	505525.0	3603425.0	164.3	3.05	11.63	4.65	YES
CON13		0	0.35860E-04	505575.0	3603425.0	164.7	3.05	11.63	4.65	YES
CON14		0	0.35860E-04	505625.0	3603425.0	165.9	3.05	11.63	4.65	YES
CON15		0	0.35860E-04	505675.0	3603425.0	167.0	3.05	11.63	4.65	YES
CON16		0	0.35860E-04	505725.0	3603425.0	168.0	3.05	11.63	4.65	YES
CON17		0	0.35860E-04	505775.0	3603425.0	168.9	3.05	11.63	4.65	YES
CON18		0	0.35860E-04	505825.0	3603425.0	170.3	3.05	11.63	4.65	YES
CON19		0	0.35860E-04	505875.0	3603425.0	171.8	3.05	11.63	4.65	YES
CON20		0	0.35860E-04	504975.0	3603475.0	163.4	3.05	11.63	4.65	YES
CON21		0	0.35860E-04	505025.0	3603475.0	164.0	3.05	11.63	4.65	YES
CON22		0	0.35860E-04	505075.0	3603475.0	164.3	3.05	11.63		

```
4.65     YES
 CON23            0   0.35860E-04  505125.0 3603475.0   164.5     3.05    11.63
4.65     YES
 CON24            0   0.35860E-04  505175.0 3603475.0   165.3     3.05    11.63
4.65     YES
 CON25            0   0.35860E-04  505225.0 3603475.0   166.2     3.05    11.63
4.65     YES
 CON26            0   0.35860E-04  505275.0 3603475.0   167.3     3.05    11.63
4.65     YES
 CON27            0   0.35860E-04  505325.0 3603475.0   167.3     3.05    11.63
4.65     YES
 CON28            0   0.35860E-04  505375.0 3603475.0   167.5     3.05    11.63
4.65     YES
 CON29            0   0.35860E-04  505425.0 3603475.0   167.3     3.05    11.63
4.65     YES
 CON30            0   0.35860E-04  505475.0 3603475.0   166.7     3.05    11.63
4.65     YES
 CON31            0   0.35860E-04  505525.0 3603475.0   166.3     3.05    11.63
4.65     YES
 CON32            0   0.35860E-04  505575.0 3603475.0   166.3     3.05    11.63
4.65     YES
 CON33            0   0.35860E-04  505625.0 3603475.0   166.3     3.05    11.63
4.65     YES
 CON34            0   0.35860E-04  505675.0 3603475.0   167.0     3.05    11.63
4.65     YES
 CON35            0   0.35860E-04  505725.0 3603475.0   167.8     3.05    11.63
4.65     YES
 CON36            0   0.35860E-04  505775.0 3603475.0   168.6     3.05    11.63
4.65     YES
 CON37            0   0.35860E-04  505825.0 3603475.0   169.9     3.05    11.63
4.65     YES
 CON38            0   0.35860E-04  505875.0 3603475.0   170.9     3.05    11.63
4.65     YES
 CON39            0   0.35860E-04  504975.0 3603525.0   165.0     3.05    11.63
4.65     YES
 CON40            0   0.35860E-04  505025.0 3603525.0   165.0     3.05    11.63
4.65     YES
 *** AERMOD - VERSION  15181 ***   *** East Otay Mesa Specific Plan Amendment
                          ***       08/29/16
 *** AERMET - VERSION  14134 ***   *** Construction Health Risk Assessment
                          ***      16:02:27

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 **MODELOPTs:    RegDFAULT CONC     ELEV      NODRYDPLT NOWETDPLT URBAN


                                                *** VOLUME SOURCE DATA ***
```

SOURCE ID	URBAN SOURCE	NUMBER PART. SCALAR CATS.	EMISSION RATE (GRAMS/SEC) VARY BY	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)
CON41	YES	0	0.35860E-04	505075.0	3603525.0	165.5	3.05	11.63	4.65
CON42	YES	0	0.35860E-04	505125.0	3603525.0	166.0	3.05	11.63	4.65
CON43	YES	0	0.35860E-04	505175.0	3603525.0	166.8	3.05	11.63	4.65
CON44	YES	0	0.35860E-04	505225.0	3603525.0	167.0	3.05	11.63	4.65
CON45	YES	0	0.35860E-04	505275.0	3603525.0	168.4	3.05	11.63	4.65
CON46	YES	0	0.35860E-04	505325.0	3603525.0	169.9	3.05	11.63	4.65
CON47	YES	0	0.35860E-04	505375.0	3603525.0	170.0	3.05	11.63	4.65
CON48	YES	0	0.35860E-04	505425.0	3603525.0	169.8	3.05	11.63	4.65
CON49	YES	0	0.35860E-04	505475.0	3603525.0	169.0	3.05	11.63	4.65
CON50	YES	0	0.35860E-04	505525.0	3603525.0	168.0	3.05	11.63	4.65
CON51	YES	0	0.35860E-04	505575.0	3603525.0	168.0	3.05	11.63	4.65
CON52	YES	0	0.35860E-04	505625.0	3603525.0	168.0	3.05	11.63	4.65
CON53	YES	0	0.35860E-04	505675.0	3603525.0	167.0	3.05	11.63	4.65
CON54	YES	0	0.35860E-04	505725.0	3603525.0	167.2	3.05	11.63	4.65
CON55	YES	0	0.35860E-04	505775.0	3603525.0	168.0	3.05	11.63	4.65
CON56	YES	0	0.35860E-04	505825.0	3603525.0	169.5	3.05	11.63	4.65
CON57	YES	0	0.35860E-04	505875.0	3603525.0	170.2	3.05	11.63	4.65
CON58	YES	0	0.35860E-04	504975.0	3603575.0	166.6	3.05	11.63	4.65
CON59	YES	0	0.35860E-04	505025.0	3603575.0	166.6	3.05	11.63	4.65
CON60		0	0.35860E-04	505075.0	3603575.0	166.6	3.05	11.63	

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4.65     YES
 CON61           0   0.35860E-04  505125.0 3603575.0   166.7     3.05    11.63
4.65     YES
 CON62           0   0.35860E-04  505175.0 3603575.0   167.0     3.05    11.63
4.65     YES
 CON63           0   0.35860E-04  505225.0 3603575.0   167.8     3.05    11.63
4.65     YES
 CON64           0   0.35860E-04  505275.0 3603575.0   170.0     3.05    11.63
4.65     YES
 CON65           0   0.35860E-04  505325.0 3603575.0   171.6     3.05    11.63
4.65     YES
 CON66           0   0.35860E-04  505375.0 3603575.0   172.5     3.05    11.63
4.65     YES
 CON67           0   0.35860E-04  505425.0 3603575.0   172.3     3.05    11.63
4.65     YES
 CON68           0   0.35860E-04  505475.0 3603575.0   171.4     3.05    11.63
4.65     YES
 CON69           0   0.35860E-04  505525.0 3603575.0   171.3     3.05    11.63
4.65     YES
 CON70           0   0.35860E-04  505575.0 3603575.0   170.6     3.05    11.63
4.65     YES
 CON71           0   0.35860E-04  505625.0 3603575.0   169.7     3.05    11.63
4.65     YES
 CON72           0   0.35860E-04  505675.0 3603575.0   168.9     3.05    11.63
4.65     YES
 CON73           0   0.35860E-04  505725.0 3603575.0   168.6     3.05    11.63
4.65     YES
 CON74           0   0.35860E-04  505775.0 3603575.0   168.6     3.05    11.63
4.65     YES
 CON75           0   0.35860E-04  505825.0 3603575.0   169.0     3.05    11.63
4.65     YES
 CON76           0   0.35860E-04  505875.0 3603575.0   169.5     3.05    11.63
4.65     YES
 CON77           0   0.35860E-04  504975.0 3603625.0   168.3     3.05    11.63
4.65     YES
 CON78           0   0.35860E-04  505025.0 3603625.0   168.3     3.05    11.63
4.65     YES
 CON79           0   0.35860E-04  505075.0 3603625.0   168.3     3.05    11.63
4.65     YES
 CON80           0   0.35860E-04  505125.0 3603625.0   168.3     3.05    11.63
4.65     YES
```

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. SCALAR CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE VARY BY
CON81	0	0.35860E-04	505175.0	3603625.0	168.6	3.05	11.63	4.65	YES
CON82	0	0.35860E-04	505225.0	3603625.0	169.7	3.05	11.63	4.65	YES
CON83	0	0.35860E-04	505275.0	3603625.0	171.0	3.05	11.63	4.65	YES
CON84	0	0.35860E-04	505325.0	3603625.0	174.1	3.05	11.63	4.65	YES
CON85	0	0.35860E-04	505375.0	3603625.0	174.6	3.05	11.63	4.65	YES
CON86	0	0.35860E-04	505425.0	3603625.0	175.6	3.05	11.63	4.65	YES
CON87	0	0.35860E-04	505475.0	3603625.0	174.7	3.05	11.63	4.65	YES
CON88	0	0.35860E-04	505525.0	3603625.0	174.6	3.05	11.63	4.65	YES
CON89	0	0.35860E-04	505575.0	3603625.0	173.4	3.05	11.63	4.65	YES
CON90	0	0.35860E-04	505625.0	3603625.0	172.3	3.05	11.63	4.65	YES
CON91	0	0.35860E-04	505675.0	3603625.0	170.8	3.05	11.63	4.65	YES
CON92	0	0.35860E-04	505725.0	3603625.0	170.0	3.05	11.63	4.65	YES
CON93	0	0.35860E-04	505775.0	3603625.0	170.0	3.05	11.63	4.65	YES
CON94	0	0.35860E-04	505825.0	3603625.0	169.3	3.05	11.63	4.65	YES
CON95	0	0.35860E-04	505875.0	3603625.0	169.4	3.05	11.63	4.65	YES
CON96	0	0.35860E-04	504975.0	3603675.0	170.0	3.05	11.63	4.65	YES
CON97	0	0.35860E-04	505025.0	3603675.0	170.0	3.05	11.63	4.65	YES
CON98	0	0.35860E-04	505075.0	3603675.0	170.0	3.05	11.63		

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4.65     YES
 CON99           0   0.35860E-04  505125.0 3603675.0   170.0     3.05    11.63
4.65     YES
 CON100          0   0.35860E-04  505175.0 3603675.0   170.8     3.05    11.63
4.65     YES
 CON101          0   0.35860E-04  505225.0 3603675.0   171.5     3.05    11.63
4.65     YES
 CON102          0   0.35860E-04  505275.0 3603675.0   173.3     3.05    11.63
4.65     YES
 CON103          0   0.35860E-04  505325.0 3603675.0   175.8     3.05    11.63
4.65     YES
 CON104          0   0.35860E-04  505375.0 3603675.0   177.5     3.05    11.63
4.65     YES
 CON105          0   0.35860E-04  505425.0 3603675.0   178.0     3.05    11.63
4.65     YES
 CON106          0   0.35860E-04  505475.0 3603675.0   177.9     3.05    11.63
4.65     YES
 CON107          0   0.35860E-04  505525.0 3603675.0   177.9     3.05    11.63
4.65     YES
 CON108          0   0.35860E-04  505575.0 3603675.0   176.8     3.05    11.63
4.65     YES
 CON109          0   0.35860E-04  505625.0 3603675.0   174.3     3.05    11.63
4.65     YES
 CON110          0   0.35860E-04  505675.0 3603675.0   172.5     3.05    11.63
4.65     YES
 CON111          0   0.35860E-04  505725.0 3603675.0   171.9     3.05    11.63
4.65     YES
 CON112          0   0.35860E-04  505775.0 3603675.0   171.1     3.05    11.63
4.65     YES
 CON113          0   0.35860E-04  505825.0 3603675.0   170.5     3.05    11.63
4.65     YES
 CON114          0   0.35860E-04  505875.0 3603675.0   170.0     3.05    11.63
4.65     YES
 CON115          0   0.35860E-04  504975.0 3603725.0   170.6     3.05    11.63
4.65     YES
 CON116          0   0.35860E-04  505025.0 3603725.0   171.5     3.05    11.63
4.65     YES
 CON117          0   0.35860E-04  505075.0 3603725.0   172.0     3.05    11.63
4.65     YES
 CON118          0   0.35860E-04  505125.0 3603725.0   172.6     3.05    11.63
4.65     YES
 CON119          0   0.35860E-04  505175.0 3603725.0   172.6     3.05    11.63
4.65     YES
 CON120          0   0.35860E-04  505225.0 3603725.0   173.5     3.05    11.63
4.65     YES
```

**MODELOPTs: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT URBAN

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE VARY BY
CON121	0	0.35860E-04	505275.0	3603725.0	175.5	3.05	11.63	4.65	YES	
CON122	0	0.35860E-04	505325.0	3603725.0	178.0	3.05	11.63	4.65	YES	
CON123	0	0.35860E-04	505375.0	3603725.0	180.0	3.05	11.63	4.65	YES	
CON124	0	0.35860E-04	505425.0	3603725.0	181.5	3.05	11.63	4.65	YES	
CON125	0	0.35860E-04	505475.0	3603725.0	182.3	3.05	11.63	4.65	YES	
CON126	0	0.35860E-04	505525.0	3603725.0	181.6	3.05	11.63	4.65	YES	
CON127	0	0.35860E-04	505575.0	3603725.0	179.5	3.05	11.63	4.65	YES	
CON128	0	0.35860E-04	505625.0	3603725.0	176.9	3.05	11.63	4.65	YES	
CON129	0	0.35860E-04	505675.0	3603725.0	174.8	3.05	11.63	4.65	YES	
CON130	0	0.35860E-04	505725.0	3603725.0	174.3	3.05	11.63	4.65	YES	
CON131	0	0.35860E-04	505775.0	3603725.0	173.7	3.05	11.63	4.65	YES	
CON132	0	0.35860E-04	505825.0	3603725.0	172.8	3.05	11.63	4.65	YES	
CON133	0	0.35860E-04	505875.0	3603725.0	171.0	3.05	11.63	4.65	YES	
CON134	0	0.35860E-04	504975.0	3603775.0	172.4	3.05	11.63	4.65	YES	
CON135	0	0.35860E-04	505025.0	3603775.0	173.3	3.05	11.63	4.65	YES	
CON136	0	0.35860E-04	505075.0	3603775.0	174.3	3.05	11.63			

4.65	YES							
CON137		0	0.35860E-04	505125.0	3603775.0	174.7	3.05	11.63
4.65	YES							
CON138		0	0.35860E-04	505175.0	3603775.0	175.6	3.05	11.63
4.65	YES							
CON139		0	0.35860E-04	505225.0	3603775.0	176.8	3.05	11.63
4.65	YES							
CON140		0	0.35860E-04	505275.0	3603775.0	178.8	3.05	11.63
4.65	YES							
CON141		0	0.35860E-04	505325.0	3603775.0	180.5	3.05	11.63
4.65	YES							
CON142		0	0.35860E-04	505375.0	3603775.0	182.8	3.05	11.63
4.65	YES							
CON143		0	0.35860E-04	505425.0	3603775.0	184.7	3.05	11.63
4.65	YES							
CON144		0	0.35860E-04	505475.0	3603775.0	184.7	3.05	11.63
4.65	YES							
CON145		0	0.35860E-04	505525.0	3603775.0	183.6	3.05	11.63
4.65	YES							
CON146		0	0.35860E-04	505575.0	3603775.0	182.0	3.05	11.63
4.65	YES							
CON147		0	0.35860E-04	505625.0	3603775.0	178.9	3.05	11.63
4.65	YES							
CON148		0	0.35860E-04	505675.0	3603775.0	177.6	3.05	11.63
4.65	YES							
CON149		0	0.35860E-04	505725.0	3603775.0	177.4	3.05	11.63
4.65	YES							
CON150		0	0.35860E-04	505775.0	3603775.0	176.6	3.05	11.63
4.65	YES							
CON151		0	0.35860E-04	505825.0	3603775.0	175.1	3.05	11.63
4.65	YES							
CON152		0	0.35860E-04	505875.0	3603775.0	173.1	3.05	11.63
4.65	YES							
CON153		0	0.35860E-04	504975.0	3603825.0	173.2	3.05	11.63
4.65	YES							
CON154		0	0.35860E-04	505025.0	3603825.0	174.8	3.05	11.63
4.65	YES							
CON155		0	0.35860E-04	505075.0	3603825.0	176.5	3.05	11.63
4.65	YES							
CON156		0	0.35860E-04	505125.0	3603825.0	177.9	3.05	11.63
4.65	YES							
CON157		0	0.35860E-04	505175.0	3603825.0	178.0	3.05	11.63
4.65	YES							
CON158		0	0.35860E-04	505225.0	3603825.0	179.5	3.05	11.63
4.65	YES							
CON159		0	0.35860E-04	505275.0	3603825.0	181.2	3.05	11.63
4.65	YES							
CON160		0	0.35860E-04	505325.0	3603825.0	182.8	3.05	11.63

4.65 YES

*** AERMOD - VERSION 15181 *** *** East Otay Mesa Specific Plan Amendment
*** 08/29/16
*** AERMET - VERSION 14134 *** *** Construction Health Risk Assessment
*** 16:02:27

**MODELOPTs: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT URBAN

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER EMISSION RATE PART. SCALAR VARY BY	EMISSION RATE (GRAMS/SEC) CATS.	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE
CON161	0	0.35860E-04	505375.0	3603825.0	184.5	3.05	11.63	4.65	YES
CON162	0	0.35860E-04	505425.0	3603825.0	188.9	3.05	11.63	4.65	YES
CON163	0	0.35860E-04	505475.0	3603825.0	188.1	3.05	11.63	4.65	YES
CON164	0	0.35860E-04	505525.0	3603825.0	184.9	3.05	11.63	4.65	YES
CON165	0	0.35860E-04	505575.0	3603825.0	184.0	3.05	11.63	4.65	YES
CON166	0	0.35860E-04	505625.0	3603825.0	182.2	3.05	11.63	4.65	YES
CON167	0	0.35860E-04	505675.0	3603825.0	181.4	3.05	11.63	4.65	YES
CON168	0	0.35860E-04	505725.0	3603825.0	180.8	3.05	11.63	4.65	YES
CON169	0	0.35860E-04	505775.0	3603825.0	179.1	3.05	11.63	4.65	YES
CON170	0	0.35860E-04	505825.0	3603825.0	177.0	3.05	11.63	4.65	YES
CON171	0	0.35860E-04	505875.0	3603825.0	175.0	3.05	11.63	4.65	YES
CON172	0	0.35860E-04	504975.0	3603875.0	172.6	3.05	11.63	4.65	YES
CON173	0	0.35860E-04	505025.0	3603875.0	175.1	3.05	11.63	4.65	YES
CON174	0	0.35860E-04	505075.0	3603875.0	177.5	3.05	11.63		

4.65	YES							
CON175		0	0.35860E-04	505125.0	3603875.0	179.8	3.05	11.63
4.65	YES							
CON176		0	0.35860E-04	505175.0	3603875.0	181.2	3.05	11.63
4.65	YES							
CON177		0	0.35860E-04	505225.0	3603875.0	182.8	3.05	11.63
4.65	YES							
CON178		0	0.35860E-04	505275.0	3603875.0	183.6	3.05	11.63
4.65	YES							
CON179		0	0.35860E-04	505325.0	3603875.0	184.5	3.05	11.63
4.65	YES							
CON180		0	0.35860E-04	505375.0	3603875.0	185.5	3.05	11.63
4.65	YES							
CON181		0	0.35860E-04	505425.0	3603875.0	188.1	3.05	11.63
4.65	YES							
CON182		0	0.35860E-04	505475.0	3603875.0	187.5	3.05	11.63
4.65	YES							
CON183		0	0.35860E-04	505525.0	3603875.0	186.6	3.05	11.63
4.65	YES							
CON184		0	0.35860E-04	505575.0	3603875.0	187.1	3.05	11.63
4.65	YES							
CON185		0	0.35860E-04	505625.0	3603875.0	186.3	3.05	11.63
4.65	YES							
CON186		0	0.35860E-04	505675.0	3603875.0	185.3	3.05	11.63
4.65	YES							
CON187		0	0.35860E-04	505725.0	3603875.0	183.5	3.05	11.63
4.65	YES							
CON188		0	0.35860E-04	505775.0	3603875.0	181.8	3.05	11.63
4.65	YES							
CON189		0	0.35860E-04	505825.0	3603875.0	178.6	3.05	11.63
4.65	YES							
CON190		0	0.35860E-04	505875.0	3603875.0	175.9	3.05	11.63
4.65	YES							
CON191		0	0.35860E-04	504975.0	3603925.0	170.9	3.05	11.63
4.65	YES							
CON192		0	0.35860E-04	505025.0	3603925.0	172.6	3.05	11.63
4.65	YES							
CON193		0	0.35860E-04	505075.0	3603925.0	175.3	3.05	11.63
4.65	YES							
CON194		0	0.35860E-04	505125.0	3603925.0	177.7	3.05	11.63
4.65	YES							
CON195		0	0.35860E-04	505175.0	3603925.0	180.2	3.05	11.63
4.65	YES							
CON196		0	0.35860E-04	505225.0	3603925.0	182.8	3.05	11.63
4.65	YES							
CON197		0	0.35860E-04	505275.0	3603925.0	183.7	3.05	11.63
4.65	YES							
CON198		0	0.35860E-04	505325.0	3603925.0	184.3	3.05	11.63

4.65 YES
CON199 0 0.35860E-04 505375.0 3603925.0 185.7 3.05 11.63
4.65 YES
CON200 0 0.35860E-04 505425.0 3603925.0 186.0 3.05 11.63
4.65 YES
*** AERMOD - VERSION 15181 *** *** East Otay Mesa Specific Plan Amendment
*** 08/29/16
*** AERMET - VERSION 14134 *** *** Construction Health Risk Assessment
*** 16:02:27

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**MODELOPTs: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT URBAN

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE BY	EMISSION RATE SCALAR VARY
CON201	0	0.35860E-04	505475.0	3603925.0	186.0	3.05	11.63	4.65	YES	
CON202	0	0.35860E-04	505525.0	3603925.0	187.4	3.05	11.63	4.65	YES	
CON203	0	0.35860E-04	505575.0	3603925.0	189.1	3.05	11.63	4.65	YES	
CON204	0	0.35860E-04	505625.0	3603925.0	189.3	3.05	11.63	4.65	YES	
CON205	0	0.35860E-04	505675.0	3603925.0	188.8	3.05	11.63	4.65	YES	
CON206	0	0.35860E-04	505725.0	3603925.0	185.9	3.05	11.63	4.65	YES	
CON207	0	0.35860E-04	505775.0	3603925.0	182.6	3.05	11.63	4.65	YES	
CON208	0	0.35860E-04	505825.0	3603925.0	180.3	3.05	11.63	4.65	YES	
CON209	0	0.35860E-04	505875.0	3603925.0	178.1	3.05	11.63	4.65	YES	
CON210	0	0.35860E-04	504975.0	3603975.0	169.2	3.05	11.63	4.65	YES	
CON211	0	0.35860E-04	505025.0	3603975.0	170.1	3.05	11.63	4.65	YES	
CON212	0	0.35860E-04	505075.0	3603975.0	172.1	3.05	11.63			

4.65	YES							
CON213		0	0.35860E-04	505125.0	3603975.0	174.2	3.05	11.63
4.65	YES							
CON214		0	0.35860E-04	505175.0	3603975.0	175.9	3.05	11.63
4.65	YES							
CON215		0	0.35860E-04	505225.0	3603975.0	178.1	3.05	11.63
4.65	YES							
CON216		0	0.35860E-04	505275.0	3603975.0	180.1	3.05	11.63
4.65	YES							
CON217		0	0.35860E-04	505325.0	3603975.0	180.9	3.05	11.63
4.65	YES							
CON218		0	0.35860E-04	505375.0	3603975.0	182.1	3.05	11.63
4.65	YES							
CON219		0	0.35860E-04	505425.0	3603975.0	184.4	3.05	11.63
4.65	YES							
CON220		0	0.35860E-04	505475.0	3603975.0	186.0	3.05	11.63
4.65	YES							
CON221		0	0.35860E-04	505525.0	3603975.0	187.5	3.05	11.63
4.65	YES							
CON222		0	0.35860E-04	505575.0	3603975.0	189.0	3.05	11.63
4.65	YES							
CON223		0	0.35860E-04	505625.0	3603975.0	189.9	3.05	11.63
4.65	YES							
CON224		0	0.35860E-04	505675.0	3603975.0	190.0	3.05	11.63
4.65	YES							
CON225		0	0.35860E-04	505725.0	3603975.0	187.6	3.05	11.63
4.65	YES							
CON226		0	0.35860E-04	505775.0	3603975.0	184.3	3.05	11.63
4.65	YES							
CON227		0	0.35860E-04	505825.0	3603975.0	181.5	3.05	11.63
4.65	YES							
CON228		0	0.35860E-04	505875.0	3603975.0	179.8	3.05	11.63
4.65	YES							
CON229		0	0.35860E-04	504975.0	3604025.0	167.6	3.05	11.63
4.65	YES							
CON230		0	0.35860E-04	505025.0	3604025.0	168.4	3.05	11.63
4.65	YES							
CON231		0	0.35860E-04	505075.0	3604025.0	169.9	3.05	11.63
4.65	YES							
CON232		0	0.35860E-04	505125.0	3604025.0	171.6	3.05	11.63
4.65	YES							
CON233		0	0.35860E-04	505175.0	3604025.0	172.7	3.05	11.63
4.65	YES							
CON234		0	0.35860E-04	505225.0	3604025.0	174.9	3.05	11.63
4.65	YES							
CON235		0	0.35860E-04	505275.0	3604025.0	175.6	3.05	11.63
4.65	YES							
CON236		0	0.35860E-04	505325.0	3604025.0	176.7	3.05	11.63

4.65 YES
CON237 0 0.35860E-04 505375.0 3604025.0 177.9 3.05 11.63
4.65 YES
CON238 0 0.35860E-04 505425.0 3604025.0 180.6 3.05 11.63
4.65 YES
CON239 0 0.35860E-04 505475.0 3604025.0 182.5 3.05 11.63
4.65 YES
CON240 0 0.35860E-04 505525.0 3604025.0 185.6 3.05 11.63
4.65 YES
*** AERMOD - VERSION 15181 *** *** East Otay Mesa Specific Plan Amendment
*** 08/29/16
*** AERMET - VERSION 14134 *** *** Construction Health Risk Assessment
*** 16:02:27

**MODELOPTs: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT URBAN

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE BY	EMISSION RATE SCALAR VARY
CON241	0	0.35860E-04	505575.0	3604025.0	188.2	3.05	11.63	4.65	YES	
CON242	0	0.35860E-04	505625.0	3604025.0	189.9	3.05	11.63	4.65	YES	
CON243	0	0.35860E-04	505675.0	3604025.0	190.0	3.05	11.63	4.65	YES	
CON244	0	0.35860E-04	505725.0	3604025.0	189.4	3.05	11.63	4.65	YES	
CON245	0	0.35860E-04	505775.0	3604025.0	186.0	3.05	11.63	4.65	YES	
CON246	0	0.35860E-04	505825.0	3604025.0	184.1	3.05	11.63	4.65	YES	
CON247	0	0.35860E-04	505875.0	3604025.0	182.0	3.05	11.63	4.65	YES	
CON248	0	0.35860E-04	504975.0	3604075.0	166.2	3.05	11.63	4.65	YES	
CON249	0	0.35860E-04	505025.0	3604075.0	167.6	3.05	11.63	4.65	YES	
CON250	0	0.35860E-04	505075.0	3604075.0	168.4	3.05	11.63			

```
4.65     YES
 CON251           0   0.35860E-04  505125.0 3604075.0   169.7     3.05    11.63
4.65     YES
 CON252           0   0.35860E-04  505175.0 3604075.0   170.6     3.05    11.63
4.65     YES
 CON253           0   0.35860E-04  505225.0 3604075.0   171.9     3.05    11.63
4.65     YES
 CON254           0   0.35860E-04  505275.0 3604075.0   173.5     3.05    11.63
4.65     YES
 CON255           0   0.35860E-04  505325.0 3604075.0   173.7     3.05    11.63
4.65     YES
 CON256           0   0.35860E-04  505375.0 3604075.0   175.2     3.05    11.63
4.65     YES
 CON257           0   0.35860E-04  505425.0 3604075.0   177.0     3.05    11.63
4.65     YES
 CON258           0   0.35860E-04  505475.0 3604075.0   180.4     3.05    11.63
4.65     YES
 CON259           0   0.35860E-04  505525.0 3604075.0   183.8     3.05    11.63
4.65     YES
 CON260           0   0.35860E-04  505575.0 3604075.0   187.2     3.05    11.63
4.65     YES
 CON261           0   0.35860E-04  505625.0 3604075.0   188.9     3.05    11.63
4.65     YES
 CON262           0   0.35860E-04  505675.0 3604075.0   190.0     3.05    11.63
4.65     YES
 CON263           0   0.35860E-04  505725.0 3604075.0   190.3     3.05    11.63
4.65     YES
 CON264           0   0.35860E-04  505775.0 3604075.0   189.5     3.05    11.63
4.65     YES
 CON265           0   0.35860E-04  505825.0 3604075.0   186.4     3.05    11.63
4.65     YES
 CON266           0   0.35860E-04  505875.0 3604075.0   183.7     3.05    11.63
4.65     YES
 *** AERMOD - VERSION  15181 ***   *** East Otay Mesa Specific Plan Amendment
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 **MODELOPTs:    RegDFAULT CONC      ELEV      NODRYDPLT NOWETDPLT URBAN


                                          *** SOURCE IDs DEFINING SOURCE GROUPS
***

 SRCGROUP ID                                          SOURCE IDs
 -----------                                          ----------
```

```
  ALL        CON1       , CON2       , CON3       , CON4       , CON5       ,
CON6       , CON7       , CON8       ,

             CON9       , CON10      , CON11      , CON12      , CON13      ,
CON14      , CON15      , CON16      ,

             CON17      , CON18      , CON19      , CON20      , CON21      ,
CON22      , CON23      , CON24      ,

             CON25      , CON26      , CON27      , CON28      , CON29      ,
CON30      , CON31      , CON32      ,

             CON33      , CON34      , CON35      , CON36      , CON37      ,
CON38      , CON39      , CON40      ,

             CON41      , CON42      , CON43      , CON44      , CON45      ,
CON46      , CON47      , CON48      ,

             CON49      , CON50      , CON51      , CON52      , CON53      ,
CON54      , CON55      , CON56      ,

             CON57      , CON58      , CON59      , CON60      , CON61      ,
CON62      , CON63      , CON64      ,

             CON65      , CON66      , CON67      , CON68      , CON69      ,
CON70      , CON71      , CON72      ,

             CON73      , CON74      , CON75      , CON76      , CON77      ,
CON78      , CON79      , CON80      ,

             CON81      , CON82      , CON83      , CON84      , CON85      ,
CON86      , CON87      , CON88      ,

             CON89      , CON90      , CON91      , CON92      , CON93      ,
CON94      , CON95      , CON96      ,

             CON97      , CON98      , CON99      , CON100     , CON101     ,
CON102     , CON103     , CON104     ,

             CON105     , CON106     , CON107     , CON108     , CON109     ,
CON110     , CON111     , CON112     ,

             CON113     , CON114     , CON115     , CON116     , CON117     ,
CON118     , CON119     , CON120     ,

             CON121     , CON122     , CON123     , CON124     , CON125     ,
CON126     , CON127     , CON128     ,
```

CON129 , CON130 , CON131 , CON132 , CON133 ,
CON134 , CON135 , CON136 ,

CON137 , CON138 , CON139 , CON140 , CON141 ,
CON142 , CON143 , CON144 ,

CON145 , CON146 , CON147 , CON148 , CON149 ,
CON150 , CON151 , CON152 ,

CON153 , CON154 , CON155 , CON156 , CON157 ,
CON158 , CON159 , CON160 ,
*** AERMOD - VERSION 15181 *** *** East Otay Mesa Specific Plan Amendment
*** 08/29/16
*** AERMET - VERSION 14134 *** *** Construction Health Risk Assessment
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**MODELOPTs: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT URBAN

*** SOURCE IDs DEFINING SOURCE GROUPS ***

SRCGROUP ID	SOURCE IDs

CON161 , CON162 , CON163 , CON164 , CON165 ,
CON166 , CON167 , CON168 ,

CON169 , CON170 , CON171 , CON172 , CON173 ,
CON174 , CON175 , CON176 ,

CON177 , CON178 , CON179 , CON180 , CON181 ,
CON182 , CON183 , CON184 ,

CON185 , CON186 , CON187 , CON188 , CON189 ,
CON190 , CON191 , CON192 ,

CON193 , CON194 , CON195 , CON196 , CON197 ,
CON198 , CON199 , CON200 ,

CON201 , CON202 , CON203 , CON204 , CON205 ,
CON206 , CON207 , CON208 ,

CON209 , CON210 , CON211 , CON212 , CON213 ,
CON214 , CON215 , CON216 ,

CON217 , CON218 , CON219 , CON220 , CON221 ,
CON222 , CON223 , CON224 ,

CON225 , CON226 , CON227 , CON228 , CON229 ,
CON230 , CON231 , CON232 ,

CON233 , CON234 , CON235 , CON236 , CON237 ,
CON238 , CON239 , CON240 ,

CON241 , CON242 , CON243 , CON244 , CON245 ,
CON246 , CON247 , CON248 ,

CON249 , CON250 , CON251 , CON252 , CON253 ,
CON254 , CON255 , CON256 ,

CON257 , CON258 , CON259 , CON260 , CON261 ,
CON262 , CON263 , CON264 ,

CON265 , CON266 ,

*** AERMOD - VERSION 15181 *** *** East Otay Mesa Specific Plan Amendment
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*** AERMET - VERSION 14134 *** *** Construction Health Risk Assessment
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**MODELOPTs: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT URBAN

*** SOURCE IDs DEFINED AS URBAN SOURCES ***

URBAN ID	URBAN POP	SOURCE IDs
	17865.	CON1 , CON2 , CON3 , CON4 , CON5 , CON6 , CON7 , CON8 ,
		CON9 , CON10 , CON11 , CON12 , CON13 , CON14 , CON15 , CON16 ,
		CON17 , CON18 , CON19 , CON20 , CON21 , CON22 , CON23 , CON24 ,
		CON25 , CON26 , CON27 , CON28 , CON29 , CON30 , CON31 , CON32 ,

```
             CON33       , CON34       , CON35       , CON36       , CON37       ,
CON38        , CON39       , CON40       ,

             CON41       , CON42       , CON43       , CON44       , CON45       ,
CON46        , CON47       , CON48       ,

             CON49       , CON50       , CON51       , CON52       , CON53       ,
CON54        , CON55       , CON56       ,

             CON57       , CON58       , CON59       , CON60       , CON61       ,
CON62        , CON63       , CON64       ,

             CON65       , CON66       , CON67       , CON68       , CON69       ,
CON70        , CON71       , CON72       ,

             CON73       , CON74       , CON75       , CON76       , CON77       ,
CON78        , CON79       , CON80       ,

             CON81       , CON82       , CON83       , CON84       , CON85       ,
CON86        , CON87       , CON88       ,

             CON89       , CON90       , CON91       , CON92       , CON93       ,
CON94        , CON95       , CON96       ,

             CON97       , CON98       , CON99       , CON100      , CON101      ,
CON102       , CON103      , CON104      ,

             CON105      , CON106      , CON107      , CON108      , CON109      ,
CON110       , CON111      , CON112      ,

             CON113      , CON114      , CON115      , CON116      , CON117      ,
CON118       , CON119      , CON120      ,

             CON121      , CON122      , CON123      , CON124      , CON125      ,
CON126       , CON127      , CON128      ,

             CON129      , CON130      , CON131      , CON132      , CON133      ,
CON134       , CON135      , CON136      ,

             CON137      , CON138      , CON139      , CON140      , CON141      ,
CON142       , CON143      , CON144      ,

             CON145      , CON146      , CON147      , CON148      , CON149      ,
CON150       , CON151      , CON152      ,

             CON153      , CON154      , CON155      , CON156      , CON157      ,
CON158       , CON159      , CON160      ,
```

**MODELOPTs: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT URBAN

*** SOURCE IDs DEFINED AS URBAN SOURCES ***

URBAN ID	URBAN POP	SOURCE IDs
		CON161 , CON162 , CON163 , CON164 , CON165 , CON166 , CON167 , CON168 ,
		CON169 , CON170 , CON171 , CON172 , CON173 , CON174 , CON175 , CON176 ,
		CON177 , CON178 , CON179 , CON180 , CON181 , CON182 , CON183 , CON184 ,
		CON185 , CON186 , CON187 , CON188 , CON189 , CON190 , CON191 , CON192 ,
		CON193 , CON194 , CON195 , CON196 , CON197 , CON198 , CON199 , CON200 ,
		CON201 , CON202 , CON203 , CON204 , CON205 , CON206 , CON207 , CON208 ,
		CON209 , CON210 , CON211 , CON212 , CON213 , CON214 , CON215 , CON216 ,
		CON217 , CON218 , CON219 , CON220 , CON221 , CON222 , CON223 , CON224 ,
		CON225 , CON226 , CON227 , CON228 , CON229 , CON230 , CON231 , CON232 ,
		CON233 , CON234 , CON235 , CON236 , CON237 , CON238 , CON239 , CON240 ,
		CON241 , CON242 , CON243 , CON244 , CON245 , CON246 , CON247 , CON248 ,

CON249 , CON250 , CON251 , CON252 , CON253 , CON254 , CON255 , CON256 ,

CON257 , CON258 , CON259 , CON260 , CON261 , CON262 , CON263 , CON264 ,

CON265 , CON266 ,

*** AERMOD - VERSION 15181 *** *** East Otay Mesa Specific Plan Amendment 08/29/16
*** AERMET - VERSION 14134 *** *** Construction Health Risk Assessment 16:02:27

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**MODELOPTs: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT URBAN

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

(506108.9, 3603380.3, 178.0, 178.0, 0.0); (506088.4, 3603353.0, 178.2, 178.2, 0.0);
(506170.4, 3603353.0, 179.8, 179.8, 0.0); (506252.3, 3603353.0, 182.5, 182.5, 0.0);

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*** AERMET - VERSION 14134 *** *** Construction Health Risk Assessment 16:02:27

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**MODELOPTs: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT URBAN

*** METEOROLOGICAL DAYS SELECTED FOR PROCESSING ***
(1=YES; 0=NO)

1 1 1

1 1 1

```
 12 01 01   1 03  -25.9  0.242 -9.000 -9.000 -999.  309.     48.7  0.70   1.09
1.00    2.23  139.   10.0  293.6   10.0
 12 01 01   1 04   -7.3  0.101 -9.000 -9.000 -999.   99.     12.6  0.70   1.09
1.00    1.34  163.   10.0  291.9   10.0
 12 01 01   1 05   -7.3  0.101 -9.000 -9.000 -999.   77.     12.5  0.70   1.09
1.00    1.34  157.   10.0  290.9   10.0
 12 01 01   1 06   -7.3  0.101 -9.000 -9.000 -999.   77.     12.5  0.70   1.09
1.00    1.34  171.   10.0  289.2   10.0
 12 01 01   1 07  -26.1  0.240 -9.000 -9.000 -999.  282.     47.1  0.70   1.09
1.00    2.23  148.   10.0  289.2   10.0
 12 01 01   1 08  -26.9  0.440 -9.000 -9.000 -999.  701.    282.7  0.70   1.09
0.49    3.12  140.   10.0  293.1   10.0
 12 01 01   1 09   40.4  0.430  0.358  0.005   41.  677.   -176.2  0.70   1.09
0.29    2.68  128.   10.0  295.4   10.0
 12 01 01   1 10   91.9  0.390  0.668  0.005  116.  587.    -57.9  0.70   1.09
0.23    2.23  146.   10.0  297.5   10.0
 12 01 01   1 11  128.0  0.520  1.021  0.005  297.  899.    -98.1  0.70   1.09
0.21    3.12  127.   10.0  300.4   10.0
 12 01 01   1 12  143.6  0.405  1.282  0.005  524.  630.    -41.3  0.70   1.09
0.20    2.23  258.   10.0  299.8   10.0
 12 01 01   1 13  140.5  0.404  1.438  0.005  756.  617.    -42.0  0.70   1.09
0.20    2.23  312.   10.0  299.2   10.0
 12 01 01   1 14  119.3  0.459  1.529  0.005 1070.  745.    -72.2  0.70   1.09
0.21    2.68  304.   10.0  299.8   10.0
 12 01 01   1 15   79.3  0.446  1.397  0.005 1229.  715.    -99.8  0.70   1.09
0.24    2.68  306.   10.0  298.6   10.0
 12 01 01   1 16   24.3  0.297  0.952  0.005 1266.  405.    -96.1  0.70   1.09
0.33    1.78  305.   10.0  296.9   10.0
 12 01 01   1 17   -3.0  0.067 -9.000 -9.000 -999.  152.      8.9  0.70   1.09
0.61    0.89  289.   10.0  295.9   10.0
 12 01 01   1 18   -0.8  0.033 -9.000 -9.000 -999.   43.      4.1  0.70   1.09
1.00    0.44  308.   10.0  292.5   10.0
 12 01 01   1 19   -3.2  0.067 -9.000 -9.000 -999.   42.      8.3  0.70   1.09
1.00    0.89  326.   10.0  289.8   10.0
 12 01 01   1 20   -0.8  0.033 -9.000 -9.000 -999.   15.      4.1  0.70   1.09
1.00    0.44  357.   10.0  287.5   10.0
 12 01 01   1 21  -12.8  0.134 -9.000 -9.000 -999.  118.     16.7  0.70   1.09
1.00    1.78  118.   10.0  291.9   10.0
 12 01 01   1 22   -0.8  0.033 -9.000 -9.000 -999.   28.      4.1  0.70   1.09
1.00    0.44  319.   10.0  290.4   10.0
 12 01 01   1 23   -3.2  0.067 -9.000 -9.000 -999.   42.      8.3  0.70   1.09
1.00    0.89  116.   10.0  290.4   10.0
 12 01 01   1 24   -3.2  0.067 -9.000 -9.000 -999.   42.      8.3  0.70   1.09
1.00    0.89  115.   10.0  291.4   10.0


 First hour of profile data
 YR MO DY HR HEIGHT F  WDIR    WSPD AMB_TMP sigmaA  sigmaW  sigmaV
```

 12 01 01 01   10.0 1 155.   2.68   292.0   16.0 -99.00   0.72

 F indicates top of profile (=1) or below (=0)

 **MODELOPTs: RegDFAULT CONC   ELEV   NODRYDPLT NOWETDPLT URBAN

                                *** THE PERIOD (8784 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: ALL   ***
                                    INCLUDING SOURCE(S):   CON1   , CON2
 , CON3   , CON4   , CON5   ,
                 CON6   , CON7   , CON8   , CON9   , CON10
 , CON11   , CON12   , CON13   ,
                 CON14   , CON15   , CON16   , CON17   , CON18
 , CON19   , CON20   , CON21   ,
                 CON22   , CON23   , CON24   , CON25   , CON26
 , CON27   , CON28   , . . .   ,

                                          *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                       ** CONC OF OTHER   IN MICROGRAMS/M**3
                  **

       X-COORD (M)   Y-COORD (M)   CONC   X-COORD (M)
Y-COORD (M)   CONC
 -
- -
         506108.91   3603380.31   0.04444   506088.42
3603352.99   0.04599
         506170.38   3603352.99   0.03848   506252.34
3603352.99   0.03341

 **MODELOPTs: RegDFAULT CONC   ELEV   NODRYDPLT NOWETDPLT URBAN

                                       *** THE SUMMARY OF MAXIMUM PERIOD (8784
HRS) RESULTS ***

GROUP ID	NETWORK AVERAGE CONC	RECEPTOR (XR, YR, ZELEV, ZHILL, ZFLAG)	OF TYPE	GRID-ID
ALL	1ST HIGHEST VALUE IS	0.04599 AT (506088.42, 3603352.99, 178.23, 178.23, 0.00)	DC	
	2ND HIGHEST VALUE IS	0.04444 AT (506108.91, 3603380.31, 178.00, 178.00, 0.00)	DC	
	3RD HIGHEST VALUE IS	0.03848 AT (506170.38, 3603352.99, 179.80, 179.80, 0.00)	DC	
	4TH HIGHEST VALUE IS	0.03341 AT (506252.34, 3603352.99, 182.53, 182.53, 0.00)	DC	
	5TH HIGHEST VALUE IS	0.00000 AT (0.00, 0.00, 0.00, 0.00, 0.00)		
	6TH HIGHEST VALUE IS	0.00000 AT (0.00, 0.00, 0.00, 0.00, 0.00)		
	7TH HIGHEST VALUE IS	0.00000 AT (0.00, 0.00, 0.00, 0.00, 0.00)		
	8TH HIGHEST VALUE IS	0.00000 AT (0.00, 0.00, 0.00, 0.00, 0.00)		
	9TH HIGHEST VALUE IS	0.00000 AT (0.00, 0.00, 0.00, 0.00, 0.00)		
	10TH HIGHEST VALUE IS	0.00000 AT (0.00, 0.00, 0.00, 0.00, 0.00)		

*** RECEPTOR TYPES: GC = GRIDCART
GP = GRIDPOLR
DC = DISCCART
DP = DISCPOLR

**MODELOPTs: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT URBAN

*** Message Summary : AERMOD Model Execution ***

--------- Summary of Total Messages --------

```
A Total of            0 Fatal Error Message(s)
A Total of            1 Warning Message(s)
A Total of          361 Informational Message(s)

A Total of         8784 Hours Were Processed

A Total of          293 Calm Hours Identified

A Total of           68 Missing Hours Identified (  0.77 Percent)


   ******** FATAL ERROR MESSAGES ********
              ***  NONE  ***


   ********   WARNING MESSAGES   ********
CO W320      11       URBOPT: Input Parameter May Be Out-of-Range for Parameter
  URB-POP

   ***********************************
   *** AERMOD Finishes Successfully ***
   ***********************************
```