Air Quality Technical Report

for the

Stone Creek Project
San Diego, California

Submitted To:

KLR Planning, Inc.
P.O. Box 882676
San Diego, CA 92186-2676

Prepared By:

Scientific Resources Associated
1328 Kaimalino Lane
San Diego, CA 92109
Dr. Valorie L. Thompson, Principal
(858) 488-2987

April 1, 2019

Table of Contents

1.0 INTRODUCTION 1
1.1 Existing Operations 1
1.2 Project Description 1
1.3 Project Alternative 3
2.0 EXISTING CONDITIONS 5
2.1 Regulatory Framework 5
2.1.1 Federal Regulations 5
2.1.2 State Regulations 7
2.1.3 Local Regulations 14
2.2 Climate and Meteorology 14
2.3 Background Air Quality 15
2.4 Existing Emission Sources 18
3.0 THRESHOLDS OF SIGNIFICANCE 22
4.0 IMPACTS 24
4.1 Consistency with the RAQS and SIP 24
4.2 Violation of an Air Quality Standard 26
4.2.1 Construction Impacts 27
4.2.2 Operational Impacts 37
4.3 Cumulatively Considerable Net Increase of Non-attainment Pollutants 46
4.4 Exposure of Sensitive Receptors to Substantial Pollutant Concentrations 47
4.5 Objectionable Odors 48
4.6 Alteration of Air Movement in the Area 49
5.0 PROJECT ALTERNATIVE 49
6.0 MITIGATION MEASURES 50
7.0 SUMMARY AND CONCLUSIONS 50
8.0 REFERENCES 52

Glossary of Terms and Acronyms

APCD	Air Pollution Control District
AQIA	Air Quality Impact Assessment
AQMD	Air Quality Management District
AQMP	Air Quality Management Plan
ARB	California Air Resources Board
BACM	Best Available Control Measure
BACT	Best Available Control Technology
BMPs	Best Management Practices
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
HARP	HotSpots Analysis and Reporting Program
HI	Hazard Index
ISCST	Industrial Source Complex Short Term Model
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
PSD	Prevention of Significant Deterioration
RAQS	San Diego County Regional Air Quality Strategy
ROCs	Reactive Organic Compounds
ROG	Reactive Organic Gases
SANDAG	San Diego Association of Governments
SCAQMD	South Coast Air Quality Management District
SCAB	South Coast Air Basin
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

1.0 INTRODUCTION

This report presents an assessment of potential air quality impacts associated with the Stone Creek Project in the City of San Diego. The evaluation addresses the potential for air quality impacts during construction and after full buildout of the project.

1.1 Existing Operations

The approximate 293-acre Stone Creek project site is located north of Miramar Road, west of Camino Santa Fe, south of Mira Mesa Boulevard, and east of Black Mountain Road within the Mira Mesa community. Camino Ruiz traverses the project site, dividing the site into nearly equal parts. The site is designated for Mixed Use in the Mira Mesa Community Plan. The existing Zone is AR-1-1, RS-1-14, and IL-2-1.

Stone Creek is the location of an on-going resource extraction operation for the mining and processing of sand and gravel, which operates under an approved Conditional Use Permit (CUP 10-315-2-PC). As part of the proposed project, the CUP termination date will be extended to 20 years from project approval. Final reclamation would likely require an additional two to five years beyond that date. Existing asphalt and concrete processing plants will continue to operate under the CUP until 2038.

1.2 Project Description

Stone Creek will develop as an integrated complex of land uses tied together by a network of parks, trails, and vehicular and pedestrian circulation as described in the Stone Creek Master Plan. Implementation of Stone Creek will require construction of new infrastructure and facilities, as well as improvements to existing infrastructure and facilities, as part of project implementation.

Stone Creek will be developed as five distinct neighborhoods: 1) Village Center, 2) Westside Neighborhood, 3) Creekside Neighborhood, 4) Parkside Neighborhood, and 5) Eastside Neighborhood. These neighborhoods are further divided into smaller sub-neighborhoods. While each neighborhood within Stone Creek has a personal identity, all have a common thread that

connects them to the parks, open space system, and the Village Center. In this manner, Stone Creek integrates workplace uses, residential uses, recreation uses, and commercial uses, creating a truly mixed-use community. Figure 1 presents a map showing the plan for the Stone Creek development.

As mineral resources become depleted and as incremental reclamation occurs, development will begin in a phased manner. The location of the asphalt and concrete plants will remain in the southeast corner of the project site, until the time that the Creekside Neighborhood develops. Ideally, phased project development will occur in a counterclockwise manner, commencing with the easternmost neighborhood of Eastside Neighborhood A, and continuing westerly through Eastside Neighborhood B, Parkside Neighborhood, and the westernmost Westside Neighborhood. Development would continue through the central portion of the site with the Village Center, culminating in the eventual development of the Creekside Neighborhood.

While Stone Creek will develop in phases over a period of 20 to 30 years, actual development in each phase is constrained by on-going mining operations. Mining will cease in a portion of the eastern property first, which is anticipated to occur five to ten years following project approvals. Thus, the first phase of development is forecast to begin in 2020. The next phase will not occur until at least 2030, as mining of resources continues and the site reclamation work progresses. In order for the western portion of the site to begin development, additional mining and reclamation will take place and the conveyor will need to be dismantled. The last phases of development will occur in the central portion of the site and finally in the southeast. Development of the final phase (Creekside Neighborhood) will occur after termination of the CUP for operation of asphalt and concrete plants in this area, or about 2040.

When fully implemented, *Stone Creek* will provide up to 4,445 residential units offered as a variety of "for sale" and/or "for rent" housing; 135,000 square feet of business park use; 415,000 square feet of light industrial uses; 174,000 square feet of commercial/retail use; 200,000 square feet of office space; 300,000 square feet of high-tech space; and more than 67 acres of parks and 41 acres of landscaped slopes. The Stone Creek Village Center will provide a pedestrian focused mixed-use core where residential uses, lifestyle shops, and restaurants will create a lively urban center for

the project. Two transit stops will be located proximate to the mixed-use core and the light industrial/office areas, providing easy access to transit.

All of the planned uses will be tied together by the project's circulation element, which includes constructing Carroll Canyon Road, completing Maya Linda Road, and improvements to Camino Ruiz. Stone Creek's internal circulation network will provide pedestrian friendly streets that connect the various land uses and provide for vehicular, pedestrian and bicycle circulation.

1.3 Project Alternative

As a project alternative, the site could be reclaimed in accordance with the existing Reclamation Plan. This alternative would not involve construction of the Stone Creek development, but rather would reclaim the site following termination of the CUP.

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.

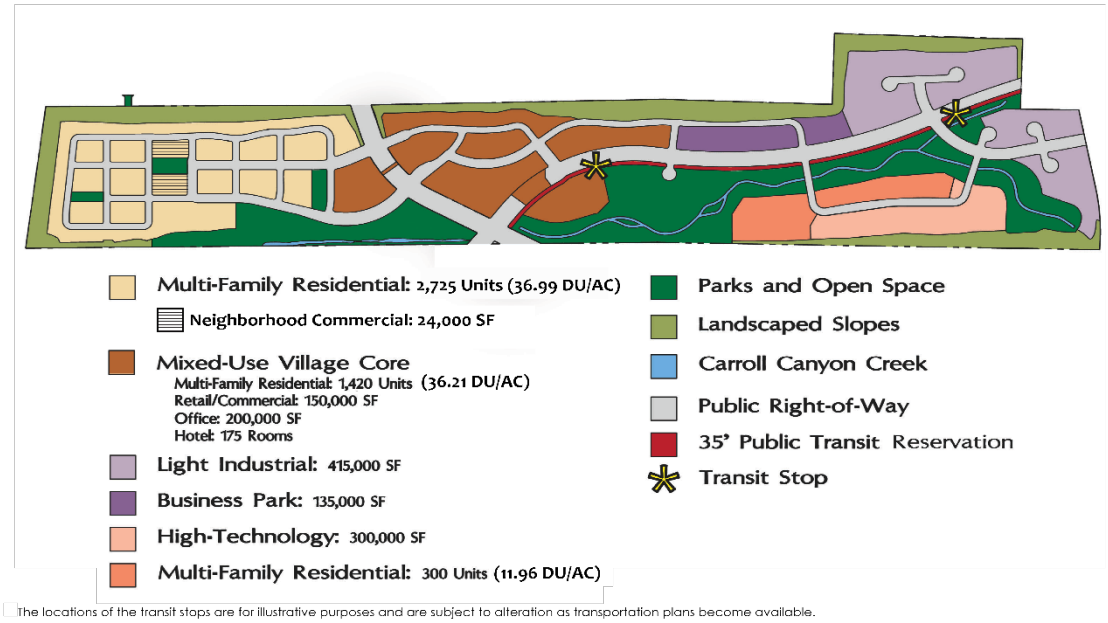

Figure 1. Project Development Plan

2.0 EXISTING CONDITIONS

The following section provides information about the existing air quality regulatory framework, meteorology and climate, existing background air quality, and existing emission sources at the Stone Creek project site.

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.

In September 1997, the EPA promulgated 8-hour O_3 and 24-hour and annual $PM_{2.5}$ national standards. As a result, this action has initiated a new planning process to monitor and evaluate emission control measures for these pollutants. The EPA has designated the SDAB as an O_3 nonattainment area for the 1997 standard, and is proposed to be designated as a marginal O_3 nonattainment area for the 2008 standard. "Marginal" is the lowest classification for nonattainment

areas, meaning that air quality in the SDAB continues to improve. The SDAB is in attainment for the NAAQS for all other criteria pollutants.

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)		0.070 ppm (137 μg/m^3)	0.070 ppm (137 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, 2018, 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.

A number of programs and strategies to reduce diesel particulate matter are in place or are in the process of being developed as part of the ARB's Diesel Risk Reduction Program. Some of these programs and strategies include those that would apply to construction and operation of the Stone Creek Project, including the following:

- In 2001, the ARB adopted new particulate matter and NOx emission standards to clean up large diesel engines that power big-rig trucks, trash trucks, delivery vans and other large

vehicles. The new standard for particulate matter takes effect in 2007 and reduces emissions to 0.01 gram of particulate matter per brake horsepower-hour (g/bhp-hr.) This is a 90 percent reduction from the existing particulate matter standard. New engines will meet the 0.01 g/bhp-hr particulate matter standard with the aid of diesel particulate filters that trap the particulate matter before exhaust leaves the vehicle.

- ARB has worked closely with the United States Environmental Protection Agency (U.S. EPA) on developing new particulate matter and NOx standards for engines used in offroad equipment such as backhoes, graders, and farm equipment. U.S EPA has proposed new standards that would reduce the emission from off-road engines to similar levels to the on-road engines discussed above by 2010 – 2012. These new engine standards were adopted as part of the Clean Air Nonroad Diesel Final Rule in 2004. Once approved by U.S. EPA, ARB will adopt these as the applicable state standards for new off-road engines. These standards will reduce diesel particulate matter emission by over 90 percent from new off-road engines currently sold in California.

- The ARB has adopted several regulations that will reduce diesel emissions from in-use vehicles and engines throughout California. In some cases, the particulate matter reduction strategies also reduce smog-forming emissions such as NOx.

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, 2009, and most recently in 2016 (APCD 2016). 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 was submitted by the ARB to the EPA in 1998, and the APCD is in the process of updating its SIP to reflect the new 8-hour O_3 NAAQS. To that end, the APCD has developed its *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. Supporting data were developed jointly by stakeholder agencies, including ARB, the APCD, the South Coast Air Quality Management District (SCAQMD), the Southern California Association of Governments (SCAG), and SANDAG. Each agency plays a role in collecting and reviewing data as necessary to generate comprehensive emission inventories. The supporting data include socio-economic projections, industrial and travel activity levels, emission factors, and emission speciation profiles. These projections are based on data submitted by stakeholder agencies including projections in municipal General Plans.

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 SDAPCD 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 City of San Diego. The City of San Diego has adopted its Significance Determination Thresholds (City of San Diego 2016) that are based on Appendix G of the State CEQA Guidelines. The thresholds are discussed further in Section 3.0.

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. Figure 2 provides a graphic representation of the prevailing winds in the project vicinity, as measured at MCAS Miramar, which is the closest meteorological monitoring station to the site, and provides general wind trends in the County. 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.

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 station to the project site is the Kearny Mesa monitoring station, which measures O_3, NO_2, PM_{10}, and $PM_{2.5}$. The nearest monitoring station that measures CO in San Diego County is located in downtown San Diego. SO_2 is no longer monitored at any sites within the City of San Diego, and is not considered to be a pollutant of concern for exceedances of the ambient air quality standards. Ambient concentrations of pollutants over the five year period from 2012 through 2016 are presented in Table 2.

The Kearny Mesa monitoring station measure exceedances of the state 1-hour ozone standard and the state and federal 8-hour ozone standards in the period from 2012 through 2016. The data from the monitoring station indicates that air quality is in attainment of all other air quality standards.

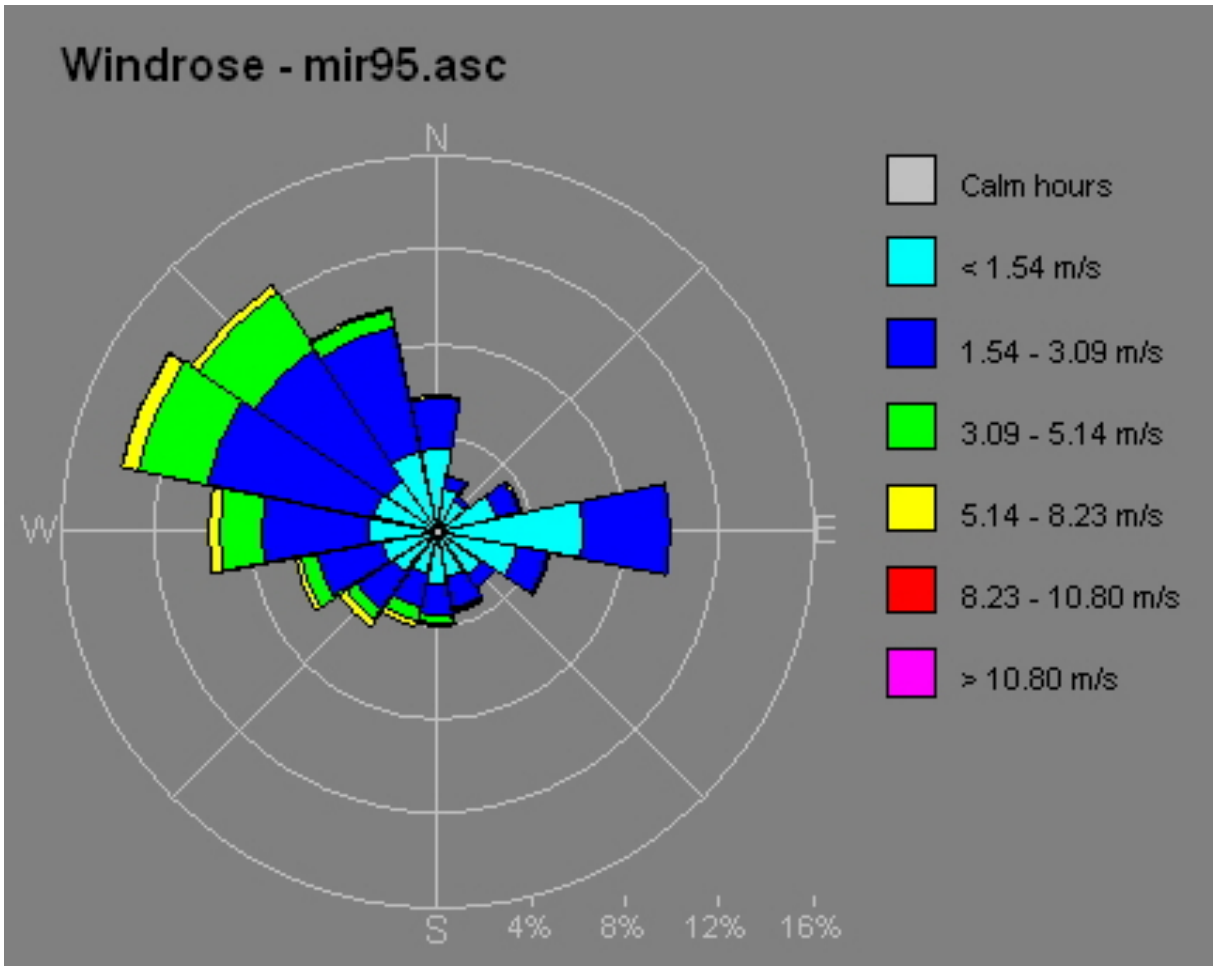

Figure 2. Wind Rose – MCAS Miramar

Table 2 Ambient Background Concentrations					
Air Quality Indicator	**2012**	**2013**	**2014**	**2015**	**2016**
Ozone (O_3)					
Peak 1-hour value (ppm)	0.099	0.081	0.099	0.077	0.087
Days above state standard (0.09 ppm)	1	0	1	0	0
Peak 8-hour value (ppm)	0.076	0.082	0.081	0.070	0.075
Fourth high 8-hour value (ppm)	0.067	0.070	0.071	0.067	0.068
Days above federal standard (0.070 ppm)[1,2]	2	0	4	0	3
Particulate matter less than or equal to 2.5 microns in diameter ($PM_{2.5}$)					
Peak 24-hour value ($\mu g/m^3$)	20.1	22.0	20.2	25.7	19.4
Days above federal standard (35 $\mu g/m^3$) [3]	0	0	0	0	0
Annual Average value ($\mu g/m^3$)	8.7	8.3	8.1	7.2	7.5
Particulate matter less than or equal to 10 microns in diameter (PM_{10})					
Peak 24-hour value (federal) ($\mu g/m^3$) [4]	22	50	39	39	36
Peak 24-hour value (state) ($\mu g/m^3$) [4]	22	50	39	37	35
Days above federal standard (150 $\mu g/m^3$)	0	0	0	0	0
Days above state standard (50 $\mu g/m^3$)	0	0	0	0	0
Annual Average value (federal) ($\mu g/m^3$) [4]	14.7	19.9	19.4	17.0	17.1
Annual Average value (state) ($\mu g/m^3$) [4]	16.0	20.0	19.5	16.7	17.1
Carbon Monoxide (CO)					
Peak 1-hour value (ppm)	2.6	3.0	2.7	2.6	2.2
Days above federal and state standard (9 ppm)	0	0	0	0	0
Peak 8-hour value (ppm)	1.9	2.1	1.9	1.9	1.7
Days above federal standard (35 ppm)	0	0	0	0	0
Days above state standard (20 ppm)	0	0	0	0	0
Nitrogen Dioxide (NO_2)					
Peak 1-hour value (ppm)	0.057	0.067	0.051	0.051	0.053
Days above federal standard (0.100 ppm)	0	0	0	0	0
Days above state standard (0.18 ppm)	0	0	0	0	0
Annual Average value (ppm)	0.011	0.011	0.010	0.011	0.010

Notes:

(1) The federal 8-hour O_3 standard was revised downward in 2015 to 0.070 ppm.

(2) The 8-hour O_3 ambient air quality standards are met at an ambient air quality monitoring site when the average of the annual fourth-highest daily maximum 8-hour average O_3 concentration is less than or equal to the standard.

(3) The federal $PM_{2.5}$ standard was revised downward in 2007 to 35 $\mu g/m^3$. For $PM_{2.5}$, the 24-hour standard is attained when 98 percent of the daily concentrations, averaged over three years, are equal to or less than the standard.

(4) State and federal statistics may differ for the following reasons: (1) State statistics are based on California approved samplers, whereas national statistics are based on samplers using federal reference or equivalent methods. State and federal statistics may therefore be based on different samplers. (2) State criteria for ensuring that data are sufficiently complete for calculating valid annual averages are more stringent than the national criteria.

ppm = parts per million; $\mu g/m^3$ = micrograms per cubic meter; NA = data not available

Source: ARB 2011, http://www.arb.ca.gov/adam/topfour/topfourdisplay.php; USEPA 2011, http://iaspub.epa.gov/airsdata/adaqs.monvals?geotype=co&geocode=06073&geoinfo=co%7E06073%7ESan+Diego+Co%2C+California&pol=CO+SO2&year=2008+2007+2006&fld=monid&fld=siteid&fld=address&fld=city&fld=county&fld=stabbr&fld=regn&rpp=25

2.4 Existing Emission Sources

Vulcan Materials, Inc. is currently operating its Carroll Canyon facility at the Stone Creek project site under the existing CUP. The current operations include aggregate extraction (mining), aggregate processing (crushing and screening), hot mix asphalt production, concrete batch plant, associated materials transfer equipment (conveyors), and materials storage equipment (including storage piles and silos).

Emissions associated with the Carroll Canyon operation are quantified by Vulcan Materials, Inc. in their annual Emissions Inventory Report that is prepared by the San Diego Air Pollution Control District based on information submitted by Vulcan. The Emissions Inventory Reports do not quantify emissions from non-permitted sources such as mobile mining equipment (heavy equipment) and motor vehicles (trucks and worker vehicles). Emissions from heavy equipment and motor vehicles were calculated based on emission factors from the ARB's OFFROAD and EMFAC2011 Models. Table 3 presents a summary of the emissions for the facility, based on the 2009 Emissions Inventory Report (Vulcan Materials, Inc. 2010) and the OFFROAD and EMFAC2011 Models.

Table 3
Existing Operational Emissions – Vulcan Materials Inc. Carroll Canyon Facility

Source	ROG	NOx	CO	SO_x	PM_{10}	$PM_{2.5}$[a]
	Lbs/day					
Haul Roads – Liquid Asphaltic Concrete	-	-	-	-	<0.1	<0.1
Haul Roads – Product Hot Mix Asphalt	-	-	-	-	0.6	0.13
Asphalt Batch Plant	3.3	8.1	59.5	<0.1	3.9	3.9
Cement/Fly Ash Storage Silos	-	-	-	-	0.6	0.13
Material Storage, Washed Aggregate	-	-	-	-	<0.1	<0.1
Material Storage, Fines and Aggregate	-	-	-	-	<0.1	<0.1
Material Storage, Sand	-	-	-	-	<0.1	<0.1
Haul Roads – Cement Treated Base	-	-	-	-	0.4	0.08
Concrete Batch Plant – Cement Treated Base	-	-	-	-	0.6	0.13

Table 3 Existing Operational Emissions – Vulcan Materials Inc. Carroll Canyon Facility						
Source	ROG	NOx	CO	SO_x	PM_{10}	$PM_{2.5}$[a]
Mining Operations, Aggregate	-	-	-	-	5.9	1.24
Crushing Operations, Cone Crusher	-	-	-	-	0.7	0.15
Crushing Operations, Standard 5½ Crusher	-	-	-	-	<0.1	<0.1
Crushing Operations, Shorthead 5½ Crusher	-	-	-	-	<0.1	<0.1
Screening Operations – S1 Screen	-	-	-	-	0.4	0.08
Screening Operations – S4 Screen	-	-	-	-	0.2	0.04
Screening Operations – S5 Screen	-	-	-	-	0.1	0.02
Screening Operations – S6 Screen	-	-	-	-	0.1	0.02
Screening Operations – S7 Screen	-	-	-	-	0.8	0.17
Screening Operations – S8 Screen	-	-	-	-	0.8	0.17
Haul Roads – Exported Rock	-	-	-	-	2.7	0.57
Haul Roads – Exported Washed Sand	-	-	-	-	<0.1	<0.1
Haul Roads – Exported Raw Sand	-	-	-	-	5.4	1.14
Quarrying Operations	-	-	-	-	16.8	3.53
Material Storage – Half Fines/Half Aggregate	-	-	-	-	<0.1	<0.1
75 Cubic Yard Cement Silo	-	-	-	-	0.7	0.15
103 Cubic Yard Fly Ash Silo	-	-	-	-	0.7	0.15
Haul Roads – Imported Fly Ash	-	-	-	-	<0.1	<0.1
Haul Roads – Imported Aggregate	-	-	-	-	0.2	0.04
Haul Roads – Imported Cement	-	-	-	-	0.2	0.04
Haul Roads – Exported Ready-Mix Concrete	-	-	-	-	1.2	0.25
Transit Mix Production	-	-	-	-	0.9	0.2
Screening – Double-Deck	-	-	-	-	1.5	0.32
Impact Crusher	-	-	-	-	<0.1	<0.1
RAP Stockpile	-	-	-	-	0.8	0.17

Table 3 Existing Operational Emissions – Vulcan Materials Inc. Carroll Canyon Facility						
Source	**ROG**	**NOx**	**CO**	**SO_x**	**PM_{10}**	**$PM_{2.5}$[a]**
Total Stationary Sources	**3.3**	**8.1**	**59.5**	**0.1**	**46.7**	**9.81**
Truck Traffic	40.76	650.25	150.94	1.08	239.41	39.82
Worker Vehicles	0.62	1.48	16.72	0.08	0.88	0.13
TOTAL	**44.68**	**659.83**	**227.16**	**1.26**	**286.99**	**49.76**
Tons/year						
Haul Roads – Liquid AC	-	-	-	-	<0.1	<0.1
Haul Roads – Product HMA	-	-	-	-	1.0	0.21
Asphalt Batch Plant	1.1	2.5	18.0	<0.1	1.4	1.4
Cement/Fly Ash Storage Silos	-	-	-	-	<0.1	<0.1
Material Storage, Washed Aggregate	-	-	-	-	<0.1	<0.1
Material Storage, Fines and Aggregate	-	-	-	-	<0.1	<0.1
Material Storage, Sand	-	-	-	-	<0.1	<0.1
Haul Roads – Cement Treated Base	-	-	-	-	<0.1	<0.1
Concrete Batch Plant – Cement Treated Base	-	-	-	-	<0.1	<0.1
Mining Operations, Aggregate	-	-	-	-	3.8	0.8
Crushing Operations, Cone Crusher	-	-	-	-	0.4	0.08
Crushing Operations, Standard 5½ Crusher	-	-	-	-	<0.1	<0.1
Crushing Operations, Shorthead 5½ Crusher	-	-	-	-	<0.1	<0.1
Screening Operations – S1 Screen	-	-	-	-	0.2	0.04
Screening Operations – S4 Screen	-	-	-	-	0.1	0.01
Screening Operations – S5 Screen	-	-	-	-	<0.1	<0.1
Screening Operations – S6 Screen	-	-	-	-	<0.1	<0.1
Screening Operations – S7 Screen	-	-	-	-	0.4	0.08
Screening Operations – S8 Screen	-	-	-	-	0.4	0.08
Haul Roads – Exported Rock	-	-	-	-	2.7	0.57
Haul Roads – Exported Washed Sand	-	-	-	-	<0.1	<0.1

Table 3 Existing Operational Emissions – Vulcan Materials Inc. Carroll Canyon Facility						
Source	**ROG**	**NOx**	**CO**	**SO_x**	**PM_{10}**	**$PM_{2.5}$[a]**
Haul Roads – Exported Raw Sand	-	-	-	-	5.4	1.14
Quarrying Operations	-	-	-	-	9.5	2.0
Material Storage – Half Fines/Half Aggregate	-	-	-	-	<0.1	<0.1
75 Cubic Yard Cement Silo	-	-	-	-	<0.1	<0.1
103 Cubic Yard Fly Ash Silo	-	-	-	-	<0.1	<0.1
Haul Roads – Imported Fly Ash	-	-	-	-	<0.1	<0.1
Haul Roads – Imported Aggregate	-	-	-	-	<0.1	<0.1
Haul Roads – Imported Cement	-	-	-	-	<0.1	<0.1
Haul Roads – Exported Ready-Mix Concrete	-	-	-	-	<0.1	<0.1
Transit Mix Production	-	-	-	-	<0.1	<0.1
Screening – Double-Deck	-	-	-	-	0.3	0.06
Impact Crusher	-	-	-	-	<0.1	<0.1
RAP Stockpile	-	-	-	-	0.7	0.15
Total Stationary Sources	**1.1**	**2.5**	**18.0**	**0.1**	**27.1**	**5.69**
Truck Traffic	5.10	81.28	18.87	0.14	29.93	4.98
Worker Vehicles	0.08	0.18	2.09	0.01	0.11	0.02
TOTAL	**6.28**	**83.96**	**38.96**	**0.25**	**57.14**	**10.69**

[a]Assuming $PM_{2.5}$ is 21% of PM_{10}, per ARB CEIDARS emission inventory.

3.0 THRESHOLDS OF SIGNIFICANCE

The City of San Diego has adopted its Significance Determination Thresholds (City of San Diego 2016) that are based on Appendix G of the State CEQA Guidelines. According to the Significance Determination Thresholds, a project would have a significant environmental impact if the project would result in:

- A conflict with or obstruct the implementation of the applicable air quality plan;
- A violation of any air quality standard or contribute substantially to an existing or projected air quality violation;
- Exposing sensitive receptors to substantial pollutant concentrations;
- Creating objectionable odors affecting a substantial number of people;
- Exceeding 100 pounds per day of particulate matter (PM) (dust); or
- Substantial alteration of air movement in the area.

In their Significance Determination Thresholds, the City of San Diego has adopted emission thresholds based on the thresholds for an Air Quality Impact Assessment in the San Diego Air Pollution Control District's Rule 20.2. These thresholds are shown in Table 4.

Table 4
Significance Criteria for Air Quality Impacts

Pollutant	Emission Rate		
	Lbs/Hr	Lbs/Day	Tons/Year
Carbon Monoxide (CO)	100	550	100
Oxides of Nitrogen (NOx)	25	250	40
Respirable Particulate Matter (PM_{10})	--	100	15
Oxides of Sulfur (SOx)	25	250	40
Lead and Lead Compounds	--	3.2	0.6
Fine Particulate Matter ($PM_{2.5}$)	--	--	--
Volatile Organic Compounds (VOCs)	--	137	15

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). If a project has the potential to result in emissions of any TAC or HAP which

may expose sensitive receptors to substantial pollutant concentrations, 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 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.

With regard to odor impacts, 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 IMPACTS

The Stone Creek Project would result in 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.

4.1 Consistency with the RAQS and SIP

The Proposed Project would have a significant impact if it conflicts with or obstructs implementation of the applicable air quality plans (the RAQS and SIP).

As discussed in Section 2.1, the SIP is the document that sets forth the state's strategies for attaining and maintaining the NAAQS. The APCD is responsible for developing the San Diego portion of the SIP, and has developed an attainment plan for attaining the 8-hour NAAQS for O_3. The RAQS sets forth the plans and programs designed to meet the state air quality standards. Through the RAQS and SIP planning processes, the APCD adopts rules, regulations, and programs designed to achieve attainment of the ambient air quality standards and maintain air quality in the SDAB.

Conformance with the RAQS and SIP determines whether a Project will conflict with or obstruct implementation of the applicable air quality plans. The basis for the RAQS and SIP is the distribution of population in the San Diego region as projected by SANDAG. Growth forecasting is based in part on the land uses established by the General Plan. The Stone Creek Project is consistent with the current General Plan and with the Community Plan.

The RAQS and SIP address air emissions and impacts from industrial sources, area-wide sources, and mobile sources. The programs also consider transportation control measures and indirect source review. Industrial sources are typically stationary air pollution sources that are subject to APCD rules and regulations, and over which the APCD has regulatory authority. Area-wide sources include sources such as consumer products use, small utility engines, hot water heaters, and furnaces. Both the ARB and the APCD have authority to regulate these sources and have developed plans and programs to reduce emissions from certain types of area-wide sources.

Mobile sources are principally emissions from motor vehicles. The ARB establishes emission standards for motor vehicles and establishes regulations for other mobile source activities including off-road vehicles.

Both the RAQS and SIP address emissions of ozone precursors (ROG and NOx), as the SDAB is classified as a basic non-attainment area for the NAAQS and a non-attainment area for the CAAQS. The RAQS and SIP do not address particulate matter. The California CAA requires an air quality strategy to achieve a 5% average annual ozone precursor emission reduction when implemented or, if that is not achievable, an expeditious schedule for adopting every feasible emission control measure under air district purview (California Health and Safety Code (H&SC) Section 40914). The current RAQS represents an expeditious schedule for adopting feasible control measures, since neither San Diego nor any air district in the State has demonstrated sustained 5% average annual ozone precursor reductions.

Most of the control measures adopted in the RAQS apply to industrial sources and specific source categories. There are no specific rules and regulations that apply to construction or operational sources associated with the Stone Creek Project; however, off-road equipment and on-road vehicles involved in construction would be required to comply with ARB emission standards.

In 1992 SANDAG adopted Transportation Control Measures for the Air Quality Plan which set forth 8 tactics aimed at reducing traffic congestion and motor vehicle emissions within the SDAB. For each of these tactics, the Transportation Control Measures evaluated the potential emissions reductions on a region-wide basis. The tactics include the following:

- Non-commute travel reduction program
- Transit improvements and expansion
- Vanpool program
- High occupancy vehicle lanes
- Park and ride facilities
- Bicycle facilities
- Traffic flow improvements

- Indirect source control program (smart growth program)

The tactic that is most applicable to the proposed Project is the indirect source control program, which is essentially a smart growth program. The Transportation Control Measures adopted by SANDAG identified job-housing balance, mixed use, and transit corridor development as criteria for indirect source control. As part of job-housing balance, SANDAG indicated that land use policies and programs shall be established to attract appropriate employers to residential areas and to encourage appropriate housing in and near industrial and business areas. Mixed use development should be designed to maximize walking and minimize vehicle use by providing housing, employment, education, shopping, recreation and any support facilities within convenient proximity.

The Stone Creek Project meets the criteria of the RAQS, SIP, and SANDAG's Transportation Control Measures as it provides a mix of uses, including light industrial uses, commercial/office uses, commercial/retail uses, and residential uses in a planned community with access to transit. As discussed in the Project Description, two transit stops will be located proximate to the mixed-use core and the light industrial/office areas, providing easy access to transit. The nearest bus route to the project site is MTS Route 964.

Accordingly the proposed Project is consistent with the applicable air quality plans, and would not result in a significant impact.

4.2 Violation of an Air Quality Standard

The Proposed Project would have a significant impact if it violates any air quality standard or contributes substantially to an existing or projected air quality violation.

To address this significance threshold, an evaluation of emissions associated with both the construction and operational phases of the Project was conducted.

4.2.1 Construction Impacts

Emissions of pollutants are generated during construction from the use of heavy construction equipment on site, truck traffic transporting materials to the site, worker vehicles traveling to the site, fugitive dust generated during construction activities, and emissions of ROG from architectural coatings.

As discussed in the project description, the project would be constructed in phases, starting with Phase 1 at the eastern end of the site and proceeding through a total of five phases, with the Creekside Neighborhood being the final phase of construction. Construction of Phase 1 is anticipated to be completed by 2020. Phase 2 of the project is anticipated to be complete in 2030, and project buildout is anticipated to occur in 2040. Table 5 presents a summary of the project phases, by completion date. For the purpose of estimating construction emissions, it was assumed that each phase would require two to five years to develop.

Table 5
Land Use Summary by Phase
Stone Creek Project

Phase	Neighborhood	Land Use	Amount
2019 Phase 1	Eastside A	Light Industrial	165,000 square feet
2030 Phase 2 Scenario A	Parkside Village Center B Village Center C Eastside B	Business Park Neighborhood Village Neighborhood Village Light Industrial	135,000 square feet 285 units 300 units 250,000 square feet
2030 Phase 2 Scenario B	Westside A Westside B Westside C Westside Gardens	Residential (low/med) Residential (high) Retail Residential (high) Park	125 units 1,285 units 24,000 square feet 1,315 units 5.98 acres
2040 Phase 3 Scenario A	Village Center A	Neighborhood Village Retail Office Hotel	835 units 150,000 square feet 200,000 square feet 175 rooms
2040 Phase 3 Scenario B	Creekside A Creekside B	Residential (low/med) High Technology Central Park	300 units 300,000 square feet 20.22 acres

Emissions from the construction of each phase of the project were estimated using the CalEEMod Model, Version 2016.3.1 (SCAQMD 2016). It was assumed that each phase of construction would require the following subphases: grading, utilities installation, building construction, paving, and architectural coatings application.

The CalEEMod Model provides default assumptions regarding horsepower rating, load factors for heavy equipment, and hours of operation per day. Default assumptions within the CalEEMod Model and assumptions for similar projects were used to represent operation of heavy construction equipment. Table 6 provides estimates of construction equipment requirements for the project for each phase of construction.

Table 6
Construction Equipment Requirements

Equipment Description	hp	Load Factor	Hours/day	Quantity
Grading				
Excavators	162	0.38	8	2
Grader	174	0.41	8	1
Scraper	361	0.48	8	2
Roller	80	0.38	8	1
Rubber Tired Dozers	255	0.40	8	2
Tractors/Loaders/Backhoes	97	0.37	8	2
Water Truck	400	0.38	8	1
Utilities Installation (Trenching)				
Excavators	162	0.38	8	1
Rough Terrain Forklifts	100	0.40	8	2
Trenchers	80	0.50	8	1
Building Construction				
Crane	226	0.29	8	1
Forklifts	89	0.20	8	3
Generator Set	84	0.74	8	1
Tractors/Loaders/Backhoes	97	0.37	8	1
Welders	46	0.45	8	3
Paving				
Pavers	125	0.42	8	2
Paving Equipment	130	0.36	8	2
Rollers	80	0.38	8	2
Architectural Coatings Application				
Air Compressor	78	0.48	8	1

Construction calculations within the CalEEMod Model utilize the number and type of equipment shown in Table 6 to calculate emissions from heavy construction equipment. The methodology used involves multiplication of the number of pieces of each type of equipment times the equipment horsepower rating, load factor, and OFFROAD emission factor, as shown in the equation below:

Emissions, lbs/day = (Number of pieces of equipment) x (equipment horsepower) x (load factor) x (hours of operation per day) x (OFFROAD emission factor, lbs/hp-hr)

In addition to calculating emissions from heavy construction equipment, the CalEEMod Model contains calculation modules to estimate emissions of fugitive dust, based on the amount of earthmoving or surface disturbance required; emissions from heavy-duty truck trips or vendor trips during construction activities; emissions from construction worker vehicles during daily commutes; emissions of ROG from paving using asphalt; and emissions of ROG during application of architectural coatings. As part of the project design features, it was assumed that standard dust control measures and architectural coatings that comply with SDAPCD Rule 67.0.1 (assumed to meet a VOC content of 50 g/l for interior coatings and 100 g/l for exterior coatings) would be used during construction.

Standard dust control measures that would be employed during construction include the following:

- Watering active grading sites a minimum of three times daily
- Apply soil stabilizers to inactive construction sites
- Replace ground cover in disturbed areas as soon as possible
- Control dust during equipment loading/unloading (load moist material, ensure at least 12 inches of freeboard in haul trucks
- Reduce speeds on unpaved roads to 15 mph or less
- Water unpaved roads a minimum of three times daily

These dust control measures would reduce the amount of fugitive dust generated during construction, reducing emissions of PM_{10} to below the daily significance thresholds during construction.

Tables 7a through 7e provide the detailed emission estimates for each phase of construction as calculated with the CalEEMod Model for each of the construction phases of the project, without mitigation. Appendix A provides CalEEMod Model outputs showing the construction calculations.

Table 7f provides estimates of the maximum simultaneous construction emissions for the Phase 2A and 2B (operational by 2030) and Phase 3A and 3B (operational by 2040).

As shown in Table 7f, the maximum daily emissions of criteria pollutants during construction would be below the thresholds of significance for all project construction phases for all pollutants except ROG during architectural coatings application during Phase 2 construction. The maximum daily emissions assumes that construction of Phases 2A and 2B would be simultaneous, and construction of Phases 3A and 3B would be simultaneous. Project criteria pollutant emissions during construction would be temporary, and maximum daily emissions would occur during application of architectural coatings which would occur over an approximate 1-year period during construction of Phases 2A and 2B, and during construction of Phases 3A and 3B. Construction was assumed to require 1 ½ years for Phase 1, 5 years for Phases 2A and 2B, and 5 years for Phases 3A and 3B. Exceedance of ROG during architectural coatings application during Phase 2 construction is not regarded as a significant impact because of the project design feature that architectural coatings that comply with SDAPCD Rule 67.0.1 (assumed to meet a VOC content of 50 g/l for interior coatings and 100 g/l for exterior coatings) would be used during construction.

Table 7a
Estimated Maximum Daily Construction Emissions, Phase 1
Stone Creek Project

Construction Activity/Time	ROG	NOx	CO	SO_2	PM_{10} Dust	PM_{10} Exhaust	PM_{10} Total	$PM_{2.5}$ Dust	$PM_{2.5}$ Exhaust	$PM_{2.5}$ Total
Site Preparation										
Fugitive Dust	-	-	-	-	2.43	0.00	2.43	1.30	0.00	1.30
Off-Road Diesel	9.45	104.84	72.60	0.11	-	4.89	4.89	-	4.49	4.49
Worker Trips	0.11	0.08	0.86	0.00	0.21	0.00	0.21	0.05	0.00	0.06
TOTAL	**9.56**	**104.92**	**73.46**	**0.11**	**2.64**	**4.89**	**7.53**	**1.35**	**4.49**	**5.85**
Trenching/Utilities										
Trenching Off Road Diesel	1.42	15.01	14.14	0.02	-	0.87	0.87	-	0.80	0.80
Trenching Worker Trips	0.04	0.03	0.34	0.00	0.08	0.00	0.08	0.02	0.00	0.02
TOTAL	**1.46**	**15.04**	**14.48**	**0.02**	**0.08**	**0.87**	**0.95**	**0.02**	**0.80**	**0.82**
Paving										
Paving Offgassing	0.00	-	-	-	-	-	-	-	-	-
Paving Off Road Diesel	2.53	24.03	18.64	0.03	-	1.72	1.72	-	1.59	1.59
Paving Worker Trips	0.06	0.05	0.51	0.00	0.12	0.00	0.12	0.03	0.00	0.03
TOTAL	**2.59**	**24.08**	**19.15**	**0.03**	**0.12**	**1.72**	**0.84**	**0.03**	**1.59**	**1.62**
Building Construction										
Building Off Road Diesel	3.21	30.62	24.31	0.04		1.70	1.70		1.59	1.59
Building Vendor Trips	0.12	3.35	0.86	0.01	0.18	0.02	0.21	0.05	0.02	0.07
Building Worker Trips	0.27	0.19	2.13	0.01	0.57	0.00	0.57	0.15	0.00	0.15
TOTAL	**3.60**	**34.16**	**27.30**	**0.06**	**0.75**	**1.72**	**2.48**	**0.20**	**1.61**	**1.81**
Architectural Coatings										
Architectural Coatings Offgassing	40.02	-	-	-	-	-	-	-	-	-
Architectural Coatings Offroad Diesel	0.36	2.45	2.46	0.00	-	0.17	0.17	-	0.17	0.17
Worker Trips	0.06	0.04	0.43	0.00	0.12	0.00	0.12	0.03	0.00	0.03
TOTAL	**40.44**	**2.49**	**2.89**	**0.00**	**0.12**	**0.17**	**0.29**	**0.03**	**0.17**	**0.20**
MAXIMUM DAILY EMISSIONS[1]	**44.03**	**104.91**	**73.46**	**0.11**	**2.64**	**4.89**	**7.53**	**1.35**	**4.50**	**5.85**
Significance Criteria	137	250	550	250			100			55
Significant?	*No*	*No*	*No*	*No*			*No*			*No*

[1]Maximum occurs either during simultaneous building construction and architectural coatings application, building construction and paving, or mass grading and trenching/utilities.

Table 7b
Estimated Maximum Daily Construction Emissions, Phase 2, Scenario A
Stone Creek Project

Construction Activity/Time	ROG	NOx	CO	SO_2	PM_{10} Dust	PM_{10} Exhaust	PM_{10} Total	$PM_{2.5}$ Dust	$PM_{2.5}$ Exhaust	$PM_{2.5}$ Total
Site Preparation										
Fugitive Dust	-	-	-	-	4.79	-	4.79	2.59	-	2.59
Off-Road Diesel	6.74	60.26	64.41	0.13	-	2.64	2.64	-	2.43	2.43
Worker Trips	0.03	0.02	0.20	0.00	0.08	0.00	0.08	0.02	0.00	0.02
TOTAL	**6.77**	**60.28**	**64.61**	**0.13**	**4.87**	**2.64**	**7.51**	**2.61**	**2.43**	**5.04**
Trenching/Utilities										
Trenching Off Road Diesel	0.91	8.92	13.96	0.02	-	0.44	0.44		0.40	0.40
Trenching Worker Trips	0.03	0.01	0.19	0.00	0.08	0.00	0.08	0.02	0.00	0.02
TOTAL	**0.94**	**8.93**	**14.15**	**0.02**	**0.08**	**0.44**	**0.52**	**0.02**	**0.40**	**0.42**
Paving										
Paving Offgassing	0.00	-	-	-	-	-	-	-	-	-
Paving Off Road Diesel	1.40	14.26	17.85	0.03	-	0.78	0.78	-	0.71	0.71
Paving Worker Trips	0.05	0.03	0.34	0.00	0.15	0.00	0.15	0.04	0.00	0.04
TOTAL	**1.45**	**14.29**	**18.19**	**0.03**	**0.15**	**0.78**	**0.93**	**0.04**	**0.71**	**0.75**
Building Construction										
Building Off Road Diesel	1.74	15.38	21.56	0.034		0.66	0.66		0.61	0.61
Building Vendor Trips	0.24	9.02	2.63	0.03	0.85	0.01	0.86	0.25	0.01	0.26
Building Worker Trips	1.46	0.78	10.11	0.04	4.67	0.03	4.70	1.24	0.03	1.27
TOTAL	**3.44**	**25.18**	**34.3**	**0.104**	**5.52**	**0.7**	**6.22**	**1.49**	**0.65**	**2.14**
Architectural Coatings										
Architectural Coatings Offgassing	46.94	-	-	-	-	-	-	-	-	-
Architectural Coatings Offroad Diesel	0.17	1.15	1.81	0.00	-	0.05	0.05	-	0.05	0.05
Worker Trips	0.26	0.14	1.82	0.01	0.94	0.00	0.94	0.25	0.00	0.25
TOTAL	**47.37**	**1.29**	**3.63**	**0.01**	**0.94**	**0.05**	**0.99**	**0.25**	**0.05**	**0.30**
MAXIMUM DAILY EMISSIONS[1]	**50.67**	**60.30**	**64.97**	**0.13**	**6.46**	**2.64**	**7.66**	**2.65**	**2.43**	**5.08**
Significance Criteria	137	250	550	250			100			55
Significant?	*No*	*No*	*No*	*No*			*No*			*No*

[1]Maximum occurs either during simultaneous building construction and architectural coatings application, building construction and paving, or mass grading and trenching/utilities.

Table 7c
Estimated Maximum Daily Construction Emissions, Phase 2, Scenario B
Stone Creek Project

Construction Activity/Time	ROG	NOx	CO	SO_2	PM_{10} Dust	PM_{10} Exhaust	PM_{10} Total	$PM_{2.5}$ Dust	$PM_{2.5}$ Exhaust	$PM_{2.5}$ Total
Site Preparation										
Fugitive Dust	-	-	-	-	4.84	0.00	4.84	2.60	0.00	2.60
Off-Road Diesel	6.74	60.26	64.41	0.13		2.64	2.64	-	2.43	2.43
Worker Trips	0.08	0.04	0.56	0.00	0.23	0.00	0.23	0.06	0.00	0.06
TOTAL	**6.82**	**60.3**	**64.97**	**0.13**	**5.07**	**2.64**	**7.71**	**2.66**	**2.43**	**5.09**
Trenching/Utilities										
Trenching Off Road Diesel	0.91	8.92	13.96	0.02	-	0.44	0.44	-	0.40	0.40
Trenching Worker Trips	0.03	0.01	0.19	0.00	0.08	0.00	0.08	0.02	0.00	0.02
TOTAL	**0.94**	**8.93**	**14.15**	**0.02**	**0.08**	**0.44**	**0.52**	**0.02**	**0.40**	**0.42**
Paving										
Paving Offgassing	0.00	-	-	-	-	-	-	-	-	-
Paving Off Road Diesel	1.40	14.26	17.85	0.03	-	0.78	0.78	-	0.71	0.71
Paving Worker Trips	0.04	0.02	0.28	0.00	0.12	0.00	0.12	0.03	0.00	0.03
TOTAL	**1.44**	**14.28**	**18.13**	**0.03**	**0.12**	**0.78**	**0.90**	**0.03**	**0.71**	**0.74**
Building Construction										
Building Off Road Diesel	1.74	15.38	21.56	0.04	-	0.66	0.66		0.61	0.61
Building Vendor Trips	0.57	21.12	6.15	0.07	2.00	0.02	2.02	0.57	0.02	0.60
Building Worker Trips	5.06	2.71	34.99	0.13	16.18	0.10	16.28	4.29	0.09	4.38
TOTAL	**7.37**	**39.21**	**62.7**	**0.24**	**18.18**	**0.78**	**18.96**	**4.86**	**0.72**	**5.59**
Architectural Coatings										
Architectural Coatings Offgassing	148.52	-	-	-	-	-	-	-	-	-
Architectural Coatings Offroad Diesel	0.17	1.15	1.81	0.00	-	0.05	0.05		0.05	0.05
Worker Trips	0.91	0.48	6.29	0.02	3.24	0.02	3.25	0.86	0.02	0.87
TOTAL	**149.60**	**1.63**	**8.1**	**0.02**	**3.24**	**0.07**	**3.30**	**0.86**	**0.07**	**0.92**
MAXIMUM DAILY EMISSIONS[1]	**156.45**	**60.30**	**67.20**	**0.26**	**21.42**	**2.64**	**22.25**	**5.73**	**2.43**	**6.50**
Significance Criteria	137	250	550	250			100			55
Significant?	*Yes*	*No*	*No*	*No*			*No*			*No*

[1]Maximum occurs either during simultaneous building construction and architectural coatings application, building construction and paving, or mass grading and trenching/utilities.

Table 7d
Estimated Maximum Daily Construction Emissions, Phase 3, Scenario A
Stone Creek Project

Construction Activity/Time	ROG	NOx	CO	SO_2	PM_{10} Dust	PM_{10} Exhaust	PM_{10} Total	$PM_{2.5}$ Dust	$PM_{2.5}$ Exhaust	$PM_{2.5}$ Total
Site Preparation										
Fugitive Dust	-	-	-	-	4.74	-	4.74	2.59	-	2.59
Off-Road Diesel	6.22	20.85	47.43	0.14		0.72	0.72	-	0.72	0.72
Worker Trips	0.04	0.025	0.34	0.00	0.23	0.00	0.23	0.06	0.00	0.06
TOTAL	**6.26**	**20.875**	**47.77**	**0.14**	**4.97**	**0.72**	**5.69**	**2.65**	**0.72**	**3.37**
Trenching/Utilities										
Trenching Off Road Diesel	1.07	5.13	15.24	0.03	-	0.13	0.13	-	0.13	0.13
Trenching Worker Trips	0.02	0.01	0.12	0.00	0.08	0.00	0.08	0.02	0.00	0.02
TOTAL	**1.09**	**5.14**	**15.36**	**0.03**	**0.08**	**0.13**	**0.21**	**0.02**	**0.13**	**0.15**
Paving										
Paving Offgassing	0.00	-	-	-	-	-	-	-	-	-
Paving Off Road Diesel	1.59	9.56	19.12	0.03	-	0.29	0.29	-	0.29	0.29
Paving Worker Trips	0.02	0.01	0.18	0.00	0.12	0.00	0.12	0.0327	0.00	0.03
TOTAL	**1.61**	**9.57**	**19.3**	**0.03**	**0.12**	**0.29**	**0.41**	**0.0327**	**0.29**	**0.32**
Building Construction										
Building Off Road Diesel	1.54	7.00	21.79	0.04	-	0.11	0.11	-	0.11	0.11
Building Vendor Trips	0.33	12.53	3.83	0.05	1.27	0.01	1.29	0.37	0.01	0.38
Building Worker Trips	1.28	0.72	9.89	0.04	6.74	0.02	6.76	1.79	0.02	1.81
TOTAL	**3.15**	**20.25**	**35.51**	**0.13**	**8.01**	**0.14**	**8.16**	**2.16**	**0.14**	**2.30**
Architectural Coatings										
Architectural Coatings Offgassing	69.18	-	-	-	-	-	-	-	-	-
Architectural Coatings Offroad Diesel	0.12	0.76	1.79	0.00	-	0.01	0.01	-	0.01	0.01
Worker Trips	0.26	0.14	1.98	0.01	1.35	0.00	1.35	0.36	0.00	0.36
TOTAL	**69.56**	**0.90**	**3.77**	**0.01**	**1.35**	**0.01**	**1.36**	**0.36**	**0.01**	**0.37**
MAXIMUM DAILY EMISSIONS[1]	**72.71**	**21.15**	**47.77**	**0.15**	**9.36**	**0.72**	**9.52**	**2.65**	**0.72**	**3.37**
Significance Criteria	137	250	550	250			100			55
Significant?	*No*	*No*	*No*	*No*			*No*			*No*

[1]Maximum occurs either during simultaneous building construction and architectural coatings application, building construction and paving, or mass grading and trenching/utilities.

Table 7e
Estimated Maximum Daily Construction Emissions, Phase 3, Scenario B
Stone Creek Project

Construction Activity/Time	ROG	NOx	CO	SO_2	PM_{10} Dust	PM_{10} Exhaust	PM_{10} Total	$PM_{2.5}$ Dust	$PM_{2.5}$ Exhaust	$PM_{2.5}$ Total
Site Preparation										
Fugitive Dust	-	-	-	-	4.78	0.00	4.78	2.59	0.00	2.59
Off-Road Diesel	6.22	20.85	47.43	0.14		0.72	0.72	-	0.72	0.72
Worker Trips	0.04	0.025	0.34	0.00	0.23	0.00	0.23	0.06	0.00	0.06
TOTAL	**6.26**	**20.875**	**47.77**	**0.14**	**5.01**	**0.72**	**5.73**	**2.65**	**0.72**	**3.37**
Trenching/Utilities										
Trenching Off Road Diesel	1.07	5.13	15.24	0.03		0.13	0.13	-	0.13	0.13
Trenching Worker Trips	0.02	0.01	0.12	0.00	0.08	0.00	0.08	0.02	0.00	0.02
TOTAL	**1.09**	**5.14**	**15.36**	**0.03**	**0.08**	**0.13**	**0.21**	**0.02**	**0.13**	**0.15**
Paving										
Paving Offgassing	0.00	-	-	-	-	-	-	-	-	-
Paving Off Road Diesel	1.59	9.56	19.12	0.03		0.29	0.29	-	0.29	0.29
Paving Worker Trips	0.02	0.01	0.18	0.00	0.12	0.00	0.12	0.03	0.00	0.03
TOTAL	**1.61**	**9.57**	**19.3**	**0.03**	**0.12**	**0.29**	**0.41**	**0.03**	**0.29**	**0.32**
Building Construction										
Building Off Road Diesel	1.54	7.00	21.79	0.04		0.11	0.11	-	0.11	0.11
Building Vendor Trips	0.14	5.40	1.65	0.02	0.55	0.01	0.55	0.16	0.01	0.16
Building Worker Trips	0.53	0.30	4.13	0.02	2.81	0.00	2.82	0.75	0.01	0.75
TOTAL	**2.21**	**12.7**	**27.57**	**0.08**	**3.36**	**0.12**	**3.48**	**0.91**	**0.13**	**1.02**
Architectural Coatings										
Architectural Coatings Offgassing	28.17	-	-	-	-	0.00	0.00	-	0.00	0.00
Architectural Coatings Offroad Diesel	0.13	0.86	1.80	0.00		0.02	0.02		0.02	0.02
Worker Trips	0.15	0.08	1.03	0.00	0.56	0.00	0.56	0.15	0.00	0.15
TOTAL	**28.45**	**0.94**	**2.83**	**0**	**0.56**	**0.02**	**0.58**	**0.15**	**0.02**	**0.17**
MAXIMUM DAILY EMISSIONS[1]	**28.45**	**20.87**	**47.77**	**0.14**	**5.01**	**0.72**	**5.73**	**2.65**	**0.72**	**3.38**
Significance Criteria	137	250	550	250			100			55
Significant?	*No*	*No*	*No*	*No*			*No*			*No*

[1]Maximum occurs either during simultaneous building construction and architectural coatings application, building construction and paving, or mass grading and trenching/utilities.

Table 7f
Estimated Maximum Simultaneous Construction Emissions, Phases 2 and 3
Stone Creek Project

Construction Phase	ROG	NOx	CO	SO_2	PM_{10} Dust	PM_{10} Exhaust	PM_{10} Total	$PM_{2.5}$ Dust	$PM_{2.5}$ Exhaust	$PM_{2.5}$ Total
Phase 2A	44.03	104.91	73.46	0.11	2.64	4.89	7.53	1.35	4.50	5.85
Phase 2B	156.45	60.30	67.20	0.26	21.42	2.64	22.25	5.73	2.43	6.50
MAXIMUM DAILY EMISSIONS[1]	**200.48**	**165.21**	**140.66**	**0.37**	**24.06**	**7.53**	**29.78**	**7.08**	**6.93**	**12.35**
Significance Criteria	137	250	550	250			100			55
Significant?	*Yes*	*No*	*No*	*No*			*No*			*No*
Phase 3A	72.71	21.15	47.77	0.15	9.36	0.72	9.52	2.65	0.72	3.37
Phase 3B	28.45	20.87	47.77	0.14	5.01	0.72	5.73	2.65	0.72	3.38
MAXIMUM DAILY EMISSIONS[1]	**101.16**	**42.02**	**95.54**	**0.29**	**14.37**	**1.44**	**15.25**	**5.3**	**1.44**	**6.75**
Significance Criteria	137	250	550	250			100			55
Significant?	*No*	*No*	*No*	*No*			*No*			*No*

[1]Maximum occurs either during simultaneous building construction and architectural coatings application, building construction and paving, or mass grading and trenching/utilities.

4.2.2 Operational Impacts

Operational impacts associated with the Stone Creek Project would include impacts associated with vehicular traffic, as well as area sources such as energy use, landscaping, consumer products use, and architectural coatings use for maintenance purposes.

The Traffic Impact Analysis – Stone Creek (Linscott, Law, & Greenspan 2015) calculated project trip generation rates based on the proposed development phasing. The Traffic Impact Analysis calculated average daily trips (ADT) for each phase of the project, and took into account project features such as accessibility to transit and mixed-use credit. The analysis also included a reduction for pass-by trips for the retail portion of the project, and presents cumulative trips (with pass-by reduction) versus driveway trips. For the purpose of the air quality analysis, cumulative trips are used to represent the net trips that would be generated. Table 8 summarizes the trip generation rates used to calculate emissions for each project phase.

Table 8
Project Trip Generation by Year

Land Use and Size	Trip Rate and Credits	Weekday ADT
Phase 1, Year 2020		
Light Industrial Park Eastside A 165,000 SF	Trip Rate - 15/KSF Transit Credit – 5% Cumulative Trips	2,475 -124 2,351
Phase 1, Phase 2A, and Phase 2B, Year 2030		
Light Industrial Park Eastside A 165,000 SF	Trip Rate - 15/KSF Transit Credit – 5% Cumulative Trips	2,475 -124 2,351
Light Industrial Park Eastside B 250,000 SF	Trip Rate - 15/KSF Transit Credit – 5% Cumulative Trips	3,750 -188 3,562
Light Industrial/Business Park Parkside 135,000 SF	Trip Rate - 16/KSF Transit Credit – 5% Cumulative Trips	2,160 -108 2,052
Residential Mixed-Use Village Center 585 Units	Trip Rate – 6/DU Transit Credit – 5% Cumulative Trips	3,510 -176 3,334
Residential Westside 2,725 Units	Trip Rate – 6/DU Cumulative Trips	16,350 16,350

Table 8 Project Trip Generation by Year		
Land Use and Size	**Trip Rate and Credits**	**Weekday ADT**
Retail – Specialty Westside 24,000 SF	Trip Rate - 40/KSF Pass-by Trips – 10% Cumulative Trips	960 -96 864
Neighborhood Park Westside Gardens 5.98 Acres	Trip Rate - 5/acre Cumulative Trips	30 30
All Phases, Year 2040		
Light Industrial Park Eastside A 165,000 SF	Trip Rate - 15/KSF Transit Credit – 5% Cumulative Trips	2,475 -124 2,351
Light Industrial Park Eastside B 250,000 SF	Trip Rate - 15/KSF Transit Credit – 5% Cumulative Trips	3,750 -188 3,562
Light Industrial/Business Park Parkside 135,000 SF	Trip Rate - 16/KSF Transit Credit – 5% Cumulative Trips	2,160 -108 2,052
Residential Mixed-Use Village Center 1420 Units	Trip Rate – 6/DU Mixed-Use Credit – 10% Transit Credit – 5% Cumulative Trips	8,520 -852 -383 7,285
Retail – Community Mixed-Use Village Center 150,000 SF	Trip Rate - 70/KSF Mixed-Use Credit (sum) Pass-By Trips – 30% Cumulative Trips	10,500 -2,190 -2,493 5,817
Commercial Office Mixed-Use Village Center 200,000 SF	Trip Rate - formula Mixed-Use Credit – 3% Transit Credit – 3% Cumulative Trips	2,851 -86 -83 2,681
Hotel Mixed-Use Village Center 175 Rooms	Trip Rate – 8/Room Cumulative Trips	1,400 1,400
Residential Westside 2,725 Units	Trip Rate – 6/DU Mixed-Use Credit – 10% Cumulative Trips	16,350 -1,170 15,180
Retail – Specialty Westside 24,000 SF	Trip Rate - 40/KSF Pass-by Trips – 10% Cumulative Trips	960 -96 864
Neighborhood Park Westside Gardens 5.98 Acres	Trip Rate - 5/acre Cumulative Trips	30 30

Table 8 Project Trip Generation by Year		
Land Use and Size	**Trip Rate and Credits**	**Weekday ADT**
Neighborhood Park Westside Gardens 30.21 Acres	Trip Rate - 5/acre Cumulative Trips	151 151
High Tech Park – Residential Creekside 300 Units	Trip Rate – 6/DU Mixed-Use Credit – 10% Transit Credit – 5% Cumulative Trips	1,800 -37 -88 1,675
High Tech Park – Industrial Creekside 300,000 SF	Trip Rate - 16/KSF Transit Credit – 5% Cumulative Trips	4,800 -240 4,560
Total Cumulative ADT		**47,566**

Operational emissions include emissions associated with vehicles, as well as emissions associated with energy use and area sources such as consumer products use, fireplace use, and maintenance architectural coatings. Operations for project Phase 1 would overlap construction of Phases 2A and 2B. Operations for project Phase 1, 2A, and 2B would overlap construction of Phases 3A and 3B. To estimate total worst-case emissions during the overlap of construction and operations, operational emissions were added to construction emissions for those phases that overlap.

Operational impacts associated with vehicular traffic and area sources including energy use, landscaping, consumer products use, hearth emissions, and architectural coatings use for maintenance purposes were estimated using the CalEEMod Model, Version 2016.3.1. The CalEEMod Model calculates vehicle emissions based on emission factors from the EMFAC2014 model. It was assumed that the first year of full occupancy would be 2040. Based on the results of the EMFAC2014 model for subsequent years, emissions would decrease on an annual basis from 2020 onward due to phase-out of higher polluting vehicles and implementation of more stringent emission standards that are taken into account in the EMFAC2014 model. Table 9 presents the results of the emission calculations, in lbs/day, along with a comparison with the significance criteria.

Table 9 Operational Emissions						
	ROG	**NOx**	**CO**	**SO_x**	**PM_{10}**	**$PM_{2.5}$**
Phase 1, Year 2020						
Summer Day, Lbs/day						
Area Sources	3.53	0.00	0.02	0.00	0.00	0.00
Energy Use	0.06	0.51	0.43	0.00	0.04	0.04
Vehicular Emissions	2.22	9.17	26.25	0.09	7.20	1.98
TOTAL	**5.81**	**9.69**	**26.70**	**0.09**	**7.24**	**2.02**
Significance Criteria	137	250	550	250	100	55
Above Significance Criteria?	*No*	*No*	*No*	*No*	*No*	*No*
Maximum Daily Construction Emissions, Phase 2A and 2B	**200.48**	**165.21**	**140.66**	**0.37**	**29.78**	**12.35**
TOTAL	**206.29**	**174.90**	**167.36**	**0.46**	**37.02**	**14.37**
Significance Criteria	137	250	550	250	100	55
Above Significance Criteria?	*Yes*	*No*	*No*	*No*	*No*	*No*
Winter Day, Lbs/day						
Area Sources	3.53	0.00	0.02	0.00	0.00	0.00
Energy Use	0.06	0.51	0.43	0.00	0.04	0.04
Vehicular Emissions	2.16	9.46	25.81	0.08	7.20	1.98
TOTAL	**5.75**	**9.97**	**26.25**	**0.09**	**7.24**	**2.02**
Significance Criteria	137	250	550	250	100	55
Above Significance Criteria?	*No*	*No*	*No*	*No*	*No*	*No*
Maximum Daily Construction Emissions, Phase 2A and 2B	**200.48**	**165.21**	**140.66**	**0.37**	**29.78**	**12.35**
TOTAL	**206.23**	**175.18**	**166.91**	**0.46**	**37.02**	**14.37**
Significance Criteria	137	250	550	250	100	55
Above Significance Criteria?	*Yes*	*No*	*No*	*No*	*No*	*No*
Phase 1, Phase 2A, and Phase 2B, Year 2030						
Summer Day, Lbs/day						
Area Sources	106.04	58.10	298.44	0.36	5.94	5.94
Energy Use	1.80	15.55	7.59	0.10	1.25	1.25
Vehicular Emissions	56.33	225.27	632.19	2.58	167.51	48.32
TOTAL	**164.18**	**298.92**	**938.21**	**3.05**	**174.69**	**55.51**
Significance Criteria	137	250	550	250	100	55
Above Significance Criteria?	*Yes*	*Yes*	*Yes*	*No*	*Yes*	*Yes*
Maximum Daily Construction Emissions, Phase 3A and 3B	**101.16**	**42.02**	**95.54**	**0.29**	**15.25**	**6.75**
TOTAL	**265.34**	**340.94**	**1033.75**	**3.34**	**189.94**	**62.26**
Significance Criteria	137	250	550	250	100	55
Above Significance Criteria?	*Yes*	*Yes*	*Yes*	*No*	*Yes*	*Yes*

Table 9 Operational Emissions						
	ROG	**NOx**	**CO**	**SO_x**	**PM_{10}**	**$PM_{2.5}$**
Winter Day, Lbs/day						
Area Sources	106.04	58.10	298.44	0.36	5.94	5.94
Energy Use	1.80	15.55	7.59	0.10	1.25	1.25
Vehicular Emissions	54.36	229.49	621.52	2.45	167.51	48.33
TOTAL	**162.21**	**303.14**	**927.54**	**2.92**	**174.70**	**55.51**
Significance Criteria	137	250	550	250	100	55
Above Significance Criteria?	*Yes*	*Yes*	*Yes*	*No*	*Yes*	*Yes*
Maximum Daily Construction Emissions, Phase 3A and 3B	**101.16**	**42.02**	**95.54**	**0.29**	**15.25**	**6.75**
TOTAL	**263.37**	**345.16**	**1023.08**	**3.21**	**189.95**	**62.26**
Significance Criteria	137	250	550	250	100	55
Above Significance Criteria?	*Yes*	*Yes*	*Yes*	*No*	*Yes*	*Yes*
All Phases, Year 2040						
Summer Day, Lbs/day						
Area Sources	166.88	151.72	428.02	0.96	13.96	13.96
Energy Use	3.02	26.34	14.78	0.16	2.09	2.09
Vehicular Emissions	122.99	603.34	1,446.11	6.67	182.71	63.75
TOTAL	**292.89**	**781.40**	**1,888.90**	**7.79**	**198.76**	**79.80**
Significance Criteria	137	250	550	250	100	55
Above Significance Criteria?	*Yes*	*Yes*	*Yes*	*No*	*Yes*	*Yes*
Winter Day, Lbs/day						
Area Sources	166.88	151.72	428.02	0.96	13.96	13.96
Energy Use	3.02	26.34	14.78	0.16	2.09	2.09
Vehicular Emissions	119.60	610.54	1,423.36	6.34	182.71	63.76
TOTAL	**289.50**	**788.60**	**1,866.15**	**7.46**	**198.75**	**79.81**
Significance Criteria	137	250	550	250	100	55
Above Significance Criteria?	*Yes*	*Yes*	*Yes*	*No*	*Yes*	*Yes*
Current operational emissions	**44.68**	**659.83**	**227.16**	**1.26**	**286.99**	**49.76**
Net Emissions Increase	**248.21**	**128.77**	**1,661.74**	**6.53**	**(88.23)**	**30.05**
Significance Criteria	137	250	550	250	100	55
Above Significance Criteria?	*Yes*	*No*	*Yes*	*No*	*No*	*No*

Based on the estimates of the emissions associated with Project operations and simultaneous construction, emissions are above the significance thresholds for ROG in 2020, are above the significance thresholds for ROG, NOx, CO, PM_{10}, and $PM_{2.5}$ in 2030, and are above the significance thresholds for ROG, NOx, CO, PM_{10}, and $PM_{2.5}$ for full buildout in the year 2040. However, upon full buildout, the emissions associated with the current mining operations,

including asphalt plant operation, concrete plant operation, trucking of materials, and worker trips, will be eliminated. The net emissions would therefore be below the significance thresholds for NOx, PM_{10}, and $PM_{2.5}$, and would result in a net decrease in emissions in the SDAB for these pollutants.

Because emissions of CO are above the quantitative significance thresholds, the potential for an exceedance of the CO standard has been evaluated. 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. Project-related traffic would have the potential to result in CO "hot spots" if project-related traffic resulted in a degradation in the level of service at any intersection to LOS E or F. The Traffic Impact Analysis evaluated whether or not there would be a decrease in the level of service at the intersections affected by the Project. The Traffic Impact Analysis was updated via an Addendum in March 2018 (Linscott, Law and Greenspan 2018); however, the Addendum did not affect the significance of impacts for intersections in the study area and only found changes in impacts in the street segment analysis. As stated in the Addendum, two new street segment impacts were identified along Miramar Road and Carroll Canyon Road. Mitigation measures are proposed at both locations to reduce the impacts below significant levels. Two unmitigated impacts along Westonhill Drive in the Traffic Impact Analysis were calculated to be no longer significant. All other impacts, mitigation, and CEQA findings would remain as identified in the 2015 Traffic Impact Analysis.

Based on the Traffic Impact Analysis, there are no significant unmitigable intersection impacts for the Existing plus Project Scenario. Significant unmitigable intersection impacts were identified for the following scenarios:

<u>Year 2020</u>

I-15 Southbound Ramps/Carroll Canyon Road

I-15 Northbound Ramps/Carroll Canyon Road

Year 2030, Scenario A

I-15 Southbound Ramps/Carroll Canyon Road

I-15 Northbound Ramps/Carroll Canyon Road

Year 2030, Scenario B

I-15 Southbound Ramps/Carroll Canyon Road

I-15 Northbound Ramps/Carroll Canyon Road

Camino Santa Fe/Mira Mesa Boulevard

Year 2040, Scenario A

I-15 Southbound Ramps/Carroll Canyon Road

I-15 Northbound Ramps/Carroll Canyon Road

Camino Santa Fe/Mira Mesa Boulevard

Year 2040, Scenario B

I-15 Southbound Ramps/Carroll Canyon Road

I-15 Northbound Ramps/Carroll Canyon Road

Camino Santa Fe/Mira Mesa Boulevard

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 for 2020, 2030, and 2040, respectively

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 2016 of 3.0 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 2016 of 2.1 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 10 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.

Table 10 CO "Hot Spots" Evaluation Stone Creek Project Predicted CO Concentrations, ppm		
Year 2020		
Maximum 1-hour Concentration Plus Background, ppm CAAQS = 20 ppm; NAAQS = 35 ppm; Background 3.0 ppm		
Intersection		
	am	*pm*
Carroll Canyon and I-15 Northbound	4.2	4.2
Carroll Canyon and I-15 Southbound	4.4	4.2
Maximum 8-hour Concentration Plus Background, ppm CAAQS = 20 ppm; NAAQS = 35 ppm; Background 2.1 ppm		
Carroll Canyon and I-15 Northbound	2.94	
Carroll Canyon and I-15 Southbound	3.08	
Year 2030, Scenario A		
Maximum 1-hour Concentration Plus Background, ppm CAAQS = 20 ppm; NAAQS = 35 ppm; Background 3.0 ppm		
Intersection		
	am	*pm*
Camino Santa Fe and Mira Mesa Road	3.8	3.7
Carroll Canyon and I-15 Northbound	3.6	3.6
Carroll Canyon and I-15 Southbound	3.7	3.6
Maximum 8-hour Concentration Plus Background, ppm CAAQS = 20 ppm; NAAQS = 35 ppm; Background 2.1 ppm		
Camino Santa Fe and Mira Mesa Road	2.66	
Carroll Canyon and I-15 Northbound	2.52	
Carroll Canyon and I-15 Southbound	2.59	
Year 2030, Scenario B		
Maximum 1-hour Concentration Plus Background, ppm CAAQS = 20 ppm; NAAQS = 35 ppm; Background 4.0 ppm		
Intersection		
	am	*pm*
Camino Santa Fe and Mira Mesa Road	3.8	3.7
Carroll Canyon and I-15 Northbound	3.6	3.6
Carroll Canyon and I-15 Southbound	3.7	3.7
Maximum 8-hour Concentration Plus Background, ppm CAAQS = 20 ppm; NAAQS = 35 ppm; Background 2.77 ppm		
Camino Santa Fe and Mira Mesa Road	2.66	
Carroll Canyon and I-15 Northbound	2.59	
Carroll Canyon and I-15 Southbound	2.59	
Year 2030, Scenario A		
Maximum 1-hour Concentration Plus Background, ppm CAAQS = 20 ppm; NAAQS = 35 ppm; Background 3.0 ppm		
Intersection		
	am	*pm*
Camino Santa Fe and Mira Mesa Road	3.7	3.6
Carroll Canyon and I-15 Northbound	3.5	3.5
Carroll Canyon and I-15 Southbound	3.6	3.6
Maximum 8-hour Concentration Plus Background, ppm CAAQS = 20 ppm; NAAQS = 35 ppm; Background 2.1 ppm		
Camino Santa Fe and Mira Mesa Road	2.59	
Carroll Canyon and I-15 Northbound	2.45	
Carroll Canyon and I-15 Southbound	2.52	
Year 2030, Scenario B		
Maximum 1-hour Concentration Plus Background, ppm		

Table 10 CO "Hot Spots" Evaluation Stone Creek Project Predicted CO Concentrations, ppm		
CAAQS = 20 ppm; NAAQS = 35 ppm; Background 3.0 ppm		
Intersection		
	am	*pm*
Camino Santa Fe and Mira Mesa Road	3.7	3.6
Carroll Canyon and I-15 Northbound	3.6	3.5
Carroll Canyon and I-15 Southbound	3.7	3.6
Maximum 8-hour Concentration Plus Background, ppm CAAQS = 20 ppm; NAAQS = 35 ppm; Background 2.1 ppm		
Camino Santa Fe and Mira Mesa Road	2.59	
Carroll Canyon and I-15 Northbound	2.52	
Carroll Canyon and I-15 Southbound	2.59	

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. 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.

4.3 Cumulatively Considerable Net Increase of Non-attainment Pollutants

The Proposed Project would have a significant impact if it results in a cumulatively considerable net increase of any criteria pollutant for which the project region is non-attainment under an applicable federal or state ambient air quality standard (including releasing emissions which exceed quantitative thresholds for ozone precursors.

As discussed in Section 2.0, the SDAB is considered a non-attainment area for the 8-hour NAAQS for O_3, and is considered a non-attainment area for the CAAQS for O_3, PM_{10}, and $PM_{2.5}$. An evaluation of emissions of non-attainment pollutants was conducted in Section 4.2, and it was determined that emissions of all non-attainment pollutants would be below the screening-level thresholds.

The region surrounding the Stone Creek Project is already developed; the project provides infill development. Furthermore, the project provides a mix of uses. The project will ultimately

eliminate emissions associated with the Carroll Canyon mining, asphalt production, and concrete production operations. Upon full buildout, the project would result in a net emissions decrease for NOx, PM_{10}, and $PM_{2.5}$. While emissions of ozone precursor ROG would remain above the significance threshold, the project will ultimately result in a reduction in emissions of ozone precursor NOx upon cessation of mining operations. Because the project results in a decrease in emissions of nonattainment pollutants NOx, PM_{10}, and $PM_{2.5}$, the project would not be anticipated to result in a cumulatively considerable impact on air quality.

4.4 Exposure of Sensitive Receptors to Substantial Pollutant Concentrations

The Proposed Project would have a significant impact if it exposes sensitive receptors (including, but not limited to, schools, hospitals, resident care facilities, parks, or day-care centers) to substantial pollutant concentrations.

The threshold concerns whether the project could expose sensitive receptors to substantial pollutant concentrations of TACs. If a project has the potential to result in emissions of any TAC which result in a cancer risk of greater than 10 in 1 million or substantial non-cancer risk, the project would be deemed to have a potentially significant impact.

Air quality regulators typically define sensitive receptors as 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. Residential land uses may also be considered sensitive receptors. The nearest sensitive receptors to the site are the residents located to the east of the project site, approximately 0.25 miles from the project.

Vulcan Materials, Inc. is currently operating its Carroll Canyon facility at the site. The Carroll Canyon facility as it exists is a source of TAC emissions, which are reported to the San Diego APCD in their Emissions Inventory Reports. The Stone Creek project has been designed to avoid locating sensitive receptors within the development (residences) in the vicinity of the existing TAC sources. Thus the area where the current asphalt and concrete plants are located will be developed last, as the Creekside Neighborhood, which includes residential dwellings. The Eastside A and

Eastside B developments are designed to house light industrial uses, and would not include sensitive receptors.

Emissions of TACs are attributable to temporary emissions from construction emissions, and minor emissions associated with diesel truck traffic used for deliveries at the site. Truck traffic may result in emissions of diesel particulate matter, which is characterized by the State of California as a toxic air contaminant (TAC). Certain types of projects are recommended to be evaluated for impacts associated with TACs. In accordance with the SCAQMD's "Health Risk Assessment Guidance for Analyzing Cancer Risks from Mobile Source Diesel Idling Emissions for CEQA Air Quality Analysis" (SCAQMD 2003), projects that should be evaluated for diesel particulate emissions include truck stops, distribution centers, warehouses, and transit centers which diesel vehicles would utilize and which would be sources of diesel particulate matter from heavy-duty diesel trucks.

It would be speculative to identify industrial uses in the light industrial areas that would emit TACs. It is most likely that the uses planned for the Eastside Neighborhood would use minor amounts of TACs, if any. The TAC emissions from the existing operations would cease upon full buildout. Impacts to sensitive receptors from TAC emissions would therefore be less than significant.

4.5 Objectionable Odors

The Proposed Project would have a significant impact if it creates objectionable odors affecting a substantial number of people.

Project construction could result in minor amounts of odor compounds associated with diesel heavy equipment exhaust. These compounds would be emitted in various amounts and at various locations during construction. Sensitive receptors located in the vicinity of the construction site include the residences to the east of the site. Odors are highest near the source and would quickly dissipate offsite; any odors associated with construction would be temporary.

Land uses that are identified as odor sources include agricultural operations, wastewater treatment plants, food processing plants, chemical plants, composting operations, refineries, landfills, dairies, and fiberglass molding operations. These land uses would not be allowed in the Stone Creek development, as they are either agricultural operations or heavy industrial operations that would not be consistent with the proposed land uses for the project. Residential, commercial, and retail uses are not considered sources of objectionable odors.

Thus the potential for odor impacts associated with the project is less than significant.

4.6 Alteration of Air Movement in the Area

The project would not propose to construct tall buildings or make major changes to the terrain that would alter air movement in the area. Impacts would therefore be less than significant.

5.0 PROJECT ALTERNATIVE

As an option to development of the project site as the Stone Creek project, the site reclamation would be conducted following cessation of mining activities. Emissions would be associated with reclamation activities. These emissions would be similar to emissions associated with current mining operations, and with grading for the Stone Creek Project site development. Table 11 presents a summary of emissions that would be associated with site reclamation.

Table 11 Operational Emissions – Reclamation Activities						
	ROG	**NOx**	**CO**	**SO_x**	**PM_{10}**	**$PM_{2.5}$**
Daily Emissions, Lbs/day						
Fugitive Dust	-	-	-	-	42.8	5.91
Offroad Equipment	13.84	113.06	59.38	0.12	5.37	5.37
Worker Vehicles	0.15	0.17	1.70	0.00	0.34	0.01
TOTAL	**13.99**	**113.23**	**61.08**	**0.12**	**48.51**	**11.29**
Significance Criteria	137	250	550	250	100	55
Above Significance Criteria?	*No*	*No*	*No*	*No*	*No*	*No*

As shown in Table 11, emissions associated with reclamation activities would be below the City of San Diego's significance thresholds. No significant impacts to air quality would result.

6.0 MITIGATION MEASURES

Because there is a near-term impact relative to NOx, PM_{10}, and $PM_{2.5}$ emissions that cannot be mitigated, this impact remains significant and unmitigated.

7.0 SUMMARY AND CONCLUSIONS

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 potential for adverse impacts to the ambient air quality due to construction and operational emissions.

Impacts were evaluated based on the following significance criteria:

A conflict with or obstruct the implementation of the applicable air quality plan. The project is consistent with the applicable air quality plan. Impacts are less than significant.

A violation of any air quality standard or contribute substantially to an existing or projected air quality violation. Construction emissions would include emissions associated with fugitive dust, heavy construction equipment and construction worker commuting to and from the site. The project would employ dust control measures such as watering to control emissions during

construction and use of low-ROG paints. Emissions of ROG are above the significance thresholds. This impact is significant and unmitigable.

Operational emissions would include emissions associated with office and retail operations, including area sources, energy use, and vehicle traffic. Emissions would be above the significance thresholds for ROG, NOx, CO, and PM_{10}. Cessation of existing operations at the Carroll Canyon facility would ultimately reduce emissions of NOx, PM_{10}, and $PM_{2.5}$ to less than significant levels; however, emissions would remain significant.

Exposing sensitive receptors to substantial pollutant concentrations. The project is not a source of TACs and would not expose sensitive receptors to significant TAC concentrations. Impacts are less than significant.

Creating objectionable odors affecting a substantial number of people. The project is not a source of objectionable odors. Impacts are less than significant.

Exceeding 100 pounds per day of particulate matter (PM) (dust). Project construction emissions would be less than 100 pounds per day of particulate matter. Impacts during construction are less than significant. During operations, emissions of on-road dust would exceed the significance threshold of 100 pounds per day. Emissions of PM_{10} and $PM_{2.5}$ would, however, be reduced to below the significance threshold following cessation of the existing mining operations.

Substantial alteration of air movement in the area of the project. The project would not result in substantial alternation of air movement in the area. Impacts are less than significant.

8.0 REFERENCES

California Air Resources Board. 2005. *ARB Fact Sheet: Air Pollution and Health.* December 27.

California Air Resources Board. 2014. EMFAC2014 Emissions Model.

City of San Diego. 2016. *Significance Determination Thresholds*.

Linscott, Law & Greenspan. 2015. *Traffic Impact Analysis – Stone Creek*. May 6.

Linscott, Law & Greenspan. 2018. *Stone Creek – Traffic Impact Analysis (TIA) Addendum FINAL*. March 21.

San Diego Air Pollution Control District. 2016. *2016 Revision of the Regional Air Quality Strategy for San Diego County*. December.

South Coast Air Quality Management District. 1999. CEQA Air Quality Handbook. (as updated)

South Coast Air Quality Management District. 2006. *Final –Methodology to Calculate Particulate Matter (PM) 2.5 and PM 2.5 Significance Thresholds*. October.

South Coast Air Quality Management District. 2016. CalEEMod Model, Version 2016.3.1.

U.S. EPA. 2007. *The Plain English Guide to the Clean Air Act*. http://www.epa.gov/air/caa/peg/index.html.

University of California Davis. 1998. *Caltrans ITS Transportation Project-Level Carbon Monoxide Protocol*.

Vulcan Materials, Inc. 2010. *Facility Emissions – 2009 Emissions Inventory Report*. November 9.

Appendix A

CalEEMod Model Output

CALINE4 Model Outputs

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

     JOB: I15 NB and Carroll Canyon 2015 am
     RUN: Hour 1           (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide
```

I. SITE VARIABLES

```
      U=    .5 M/S            Z0= 100. CM           ALT=     0. (M)
    BRG= WORST CASE           VD=   .0 CM/S
   CLAS=     7 (G)            VS=   .0 CM/S
   MIXH= 1000. M             AMB=   .0 PPM
  SIGTH=   10. DEGREES       TEMP= 16.0 DEGREE (C)
```

II. LINK VARIABLES

LINK DESCRIPTION	LINK COORDINATES (M) X1	Y1	X2	Y2	TYPE	VPH	EF (G/MI)	H (M)	W (M)
A. CC WBTA	9328	599	9178	589	AG	1302	5.0	.0	10.0
B. CC WBRA	9328	602	9178	592	AG	180	5.0	.0	10.0
C. CC WBD	9178	592	9028	592	AG	1869	5.0	.0	10.0
D. CC EBLA	9028	585	9178	585	AG	304	5.0	.0	10.0
E. CC EBTA	9028	581	9178	581	AG	471	5.0	.0	10.0
F. CC EBD	9178	581	9328	591	AG	1051	5.0	.0	10.0
G. I15 NBLA	9163	433	9178	585	AG	567	5.0	.0	10.0
H. I15 NBRA	9167	433	9182	585	AG	590	5.0	.0	10.0
I. I15 NBD	9178	585	9162	736	AG	494	5.0	.0	10.0

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

JOB: I15 NB and Carroll Canyon 2015 am
RUN: Hour 1 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

III. RECEPTOR LOCATIONS

RECEPTOR	COORDINATES (M) X	Y	Z
1. Recpt 1	9168	571	1.8
2. Recpt 2	9166	551	1.8
3. Recpt 3	9164	531	1.8
4. Recpt 4	9148	571	1.8
5. Recpt 5	9128	571	1.8
6. Recpt 6	9128	602	1.8
7. Recpt 7	9148	602	1.8
8. Recpt 8	9168	602	1.8
9. Recpt 9	9165	622	1.8
10. Recpt 10	9162	642	1.8
11. Recpt 11	9190	571	1.8
12. Recpt 12	9188	551	1.8
13. Recpt 13	9186	531	1.8
14. Recpt 14	9210	573	1.8
15. Recpt 15	9230	575	1.8
16. Recpt 16	9190	602	1.8
17. Recpt 17	9188	622	1.8
18. Recpt 18	9186	642	1.8
19. Recpt 19	9210	604	1.8
20. Recpt 20	9230	606	1.8

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

JOB: I15 NB and Carroll Canyon 2015 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. Recpt 1	72.	1.3	.4	.0	.0	.0	.0	.5	.2	.2
2. Recpt 2	64.	.8	.2	.0	.0	.0	.0	.2	.2	.2
3. Recpt 3	29.	.8	.1	.0	.0	.0	.0	.1	.3	.2
4. Recpt 4	76.	1.1	.4	.0	.0	.0	.0	.4	.0	.0
5. Recpt 5	78.	1.0	.3	.0	.0	.0	.1	.3	.0	.0
6. Recpt 6	106.	1.2	.2	.0	.6	.0	.0	.2	.0	.0
7. Recpt 7	114.	1.2	.2	.0	.6	.0	.0	.2	.0	.0
8. Recpt 8	149.	1.1	.0	.0	.5	.0	.0	.1	.0	.1
9. Recpt 9	170.	.8	.0	.0	.2	.0	.0	.0	.2	.2
10. Recpt 10	169.	.6	.0	.0	.2	.0	.0	.0	.1	.1
11. Recpt 11	287.	1.1	.0	.0	.4	.1	.2	.0	.1	.2
12. Recpt 12	344.	.8	.0	.0	.1	.0	.0	.0	.1	.2
13. Recpt 13	348.	.8	.0	.0	.1	.0	.0	.0	.2	.2
14. Recpt 14	286.	1.1	.0	.0	.5	.0	.1	.3	.0	.0
15. Recpt 15	282.	1.2	.1	.0	.4	.0	.0	.4	.0	.0
16. Recpt 16	257.	1.2	.0	.0	.8	.1	.1	.0	.0	.0
17. Recpt 17	190.	.9	.2	.0	.0	.0	.0	.0	.2	.2
18. Recpt 18	187.	.7	.0	.0	.0	.0	.0	.0	.2	.2
19. Recpt 19	258.	.9	.0	.0	.6	.1	.1	.0	.0	.0
20. Recpt 20	256.	.8	.1	.0	.3	.0	.1	.0	.0	.0

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

     JOB: I15 NB and Carroll Canyon 2015 am
     RUN: Hour 1           (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide
```

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

RECEPTOR	(PPM) I
1. Recpt 1	.0
2. Recpt 2	.0
3. Recpt 3	.0
4. Recpt 4	.0
5. Recpt 5	.0
6. Recpt 6	.0
7. Recpt 7	.0
8. Recpt 8	.1
9. Recpt 9	.0
10. Recpt 10	.0
11. Recpt 11	.0
12. Recpt 12	.2
13. Recpt 13	.1
14. Recpt 14	.0
15. Recpt 15	.0
16. Recpt 16	.1
17. Recpt 17	.0
18. Recpt 18	.0
19. Recpt 19	.0
20. Recpt 20	.0

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

JOB: I15 NB and Carroll Canyon 2015 pm
RUN: Hour 1 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

I. SITE VARIABLES

U=	.5 M/S	Z0=	100. CM	ALT=	0. (M)
BRG=	WORST CASE	VD=	.0 CM/S		
CLAS=	7 (G)	VS=	.0 CM/S		
MIXH=	1000. M	AMB=	.0 PPM		
SIGTH=	10. DEGREES	TEMP=	16.0 DEGREE (C)		

II. LINK VARIABLES

LINK DESCRIPTION	LINK COORDINATES (M) X1	Y1	X2	Y2	TYPE	VPH	EF (G/MI)	H (M)	W (M)
A. CC WBTA	9328	599	9178	589	AG	883	5.0	.0	10.0
B. CC WBRA	9328	602	9178	592	AG	220	5.0	.0	10.0
C. CC WBD	9178	592	9028	592	AG	1612	5.0	.0	10.0
D. CC EBLA	9028	585	9178	585	AG	542	5.0	.0	10.0
E. CC EBTA	9028	581	9178	581	AG	393	5.0	.0	10.0
F. CC EBD	9178	581	9328	591	AG	992	5.0	.0	10.0
G. I15 NBLA	9163	433	9178	585	AG	729	5.0	.0	10.0
H. I15 NBRA	9167	433	9182	585	AG	460	5.0	.0	10.0
I. I15 NBD	9178	585	9162	736	AG	623	5.0	.0	10.0

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

JOB: I15 NB and Carroll Canyon 2015 pm
RUN: Hour 1 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

III. RECEPTOR LOCATIONS

RECEPTOR	COORDINATES (M) X	Y	Z
1. Recpt 1	9168	571	1.8
2. Recpt 2	9166	551	1.8
3. Recpt 3	9164	531	1.8
4. Recpt 4	9148	571	1.8
5. Recpt 5	9128	571	1.8
6. Recpt 6	9128	602	1.8
7. Recpt 7	9148	602	1.8
8. Recpt 8	9168	602	1.8
9. Recpt 9	9165	622	1.8
10. Recpt 10	9162	642	1.8
11. Recpt 11	9190	571	1.8
12. Recpt 12	9188	551	1.8
13. Recpt 13	9186	531	1.8
14. Recpt 14	9210	573	1.8
15. Recpt 15	9230	575	1.8
16. Recpt 16	9190	602	1.8
17. Recpt 17	9188	622	1.8
18. Recpt 18	9186	642	1.8
19. Recpt 19	9210	604	1.8
20. Recpt 20	9230	606	1.8

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

JOB: I15 NB and Carroll Canyon 2015 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. Recpt 1	72.	1.2	.3	.0	.0	.0	.0	.5	.2	.1
2. Recpt 2	64.	.8	.2	.0	.0	.0	.0	.2	.2	.1
3. Recpt 3	28.	.8	.1	.0	.0	.0	.0	.1	.3	.2
4. Recpt 4	76.	1.0	.3	.0	.0	.0	.0	.4	.1	.0
5. Recpt 5	78.	.9	.3	.0	.0	.0	.1	.3	.0	.0
6. Recpt 6	108.	1.1	.0	.0	.6	.0	.0	.2	.0	.0
7. Recpt 7	116.	1.1	.1	.0	.5	.0	.0	.2	.0	.0
8. Recpt 8	172.	1.1	.0	.0	.4	.1	.0	.0	.3	.2
9. Recpt 9	170.	.8	.0	.0	.2	.0	.0	.0	.2	.1
10. Recpt 10	169.	.7	.0	.0	.1	.0	.0	.0	.2	.1
11. Recpt 11	287.	1.1	.0	.0	.4	.2	.2	.0	.2	.1
12. Recpt 12	345.	.8	.0	.0	.1	.0	.0	.0	.1	.2
13. Recpt 13	348.	.8	.0	.0	.1	.0	.0	.0	.2	.2
14. Recpt 14	284.	1.1	.0	.0	.4	.2	.1	.2	.0	.0
15. Recpt 15	281.	1.1	.0	.0	.4	.1	.0	.3	.0	.0
16. Recpt 16	257.	1.2	.0	.0	.7	.2	.1	.0	.0	.0
17. Recpt 17	190.	.8	.1	.0	.0	.0	.0	.0	.3	.2
18. Recpt 18	187.	.7	.0	.0	.0	.0	.0	.0	.2	.1
19. Recpt 19	258.	.9	.0	.0	.5	.2	.1	.0	.0	.0
20. Recpt 20	257.	.8	.0	.0	.3	.1	.1	.0	.0	.0

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

     JOB: I15 NB and Carroll Canyon 2015 pm
     RUN: Hour 1           (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide
```

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

RECEPTOR	(PPM) I
1. Recpt 1	.0
2. Recpt 2	.0
3. Recpt 3	.0
4. Recpt 4	.0
5. Recpt 5	.0
6. Recpt 6	.0
7. Recpt 7	.0
8. Recpt 8	.0
9. Recpt 9	.0
10. Recpt 10	.1
11. Recpt 11	.0
12. Recpt 12	.2
13. Recpt 13	.2
14. Recpt 14	.0
15. Recpt 15	.0
16. Recpt 16	.1
17. Recpt 17	.0
18. Recpt 18	.1
19. Recpt 19	.0
20. Recpt 20	.0

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

JOB: I15 SB and Carroll Canyon 2015 am
RUN: Hour 1 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

I. SITE VARIABLES

U=	.5 M/S	Z0=	100. CM	ALT=	0. (M)
BRG=	WORST CASE	VD=	.0 CM/S		
CLAS=	7 (G)	VS=	.0 CM/S		
MIXH=	1000. M	AMB=	.0 PPM		
SIGTH=	10. DEGREES	TEMP=	16.0 DEGREE (C)		

II. LINK VARIABLES

LINK DESCRIPTION	*	LINK COORDINATES (M) X1	Y1	X2	Y2	* TYPE	VPH	EF (G/MI)	H (M)	W (M)
A. CC EBTA	*	8900	576	9050	581	* AG	485	5.0	.0	10.0
B. CC EBRA	*	8900	573	9050	578	* AG	594	5.0	.0	10.0
C. CC EBD	*	9050	581	9200	581	* AG	775	5.0	.0	10.0
D. CC WBLA	*	9200	585	9050	585	* AG	750	5.0	.0	10.0
E. CC WBTA	*	9200	589	9050	589	* AG	1119	5.0	.0	10.0
F. CC WBD	*	9050	589	8900	584	* AG	1636	5.0	.0	10.0
G. I15 SBLA	*	9071	738	9050	585	* AG	290	5.0	.0	10.0
H. I15 SBRA	*	9067	738	9046	585	* AG	527	5.0	.0	10.0
I. I15 SBD	*	9050	585	9065	433	* AG	1344	5.0	.0	10.0

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

JOB: I15 SB and Carroll Canyon 2015 am
RUN: Hour 1 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

III. RECEPTOR LOCATIONS

RECEPTOR	COORDINATES (M) X	Y	Z
1. Recpt 1	9040	570	1.8
2. Recpt 2	9020	568	1.8
3. Recpt 3	9000	566	1.8
4. Recpt 4	9042	550	1.8
5. Recpt 5	9044	530	1.8
6. Recpt 6	9040	600	1.8
7. Recpt 7	9020	599	1.8
8. Recpt 8	9000	598	1.8
9. Recpt 9	9043	620	1.8
10. Recpt 10	9046	640	1.8
11. Recpt 11	9060	600	1.8
12. Recpt 12	9063	620	1.8
13. Recpt 13	9066	640	1.8
14. Recpt 14	9080	600	1.8
15. Recpt 15	9100	600	1.8
16. Recpt 16	9060	570	1.8
17. Recpt 17	9062	550	1.8
18. Recpt 18	9064	530	1.8
19. Recpt 19	9080	570	1.8
20. Recpt 20	9100	570	1.8

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

JOB: I15 SB and Carroll Canyon 2015 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. Recpt 1	74.	1.3	.0	.0	.3	.3	.3	.0	.0	.0
2. Recpt 2	74.	1.2	.0	.2	.2	.2	.3	.0	.0	.0
3. Recpt 3	76.	1.1	.0	.2	.2	.2	.3	.0	.0	.0
4. Recpt 4	11.	1.0	.0	.0	.0	.0	.0	.1	.1	.2
5. Recpt 5	9.	.9	.0	.0	.0	.0	.0	.0	.1	.1
6. Recpt 6	164.	1.3	.0	.0	.0	.0	.0	.4	.0	.0
7. Recpt 7	103.	1.2	.0	.0	.2	.3	.4	.2	.0	.0
8. Recpt 8	101.	1.2	.0	.0	.2	.2	.2	.4	.0	.0
9. Recpt 9	171.	1.1	.0	.0	.0	.0	.0	.2	.0	.2
10. Recpt 10	174.	1.0	.0	.0	.0	.0	.0	.0	.0	.3
11. Recpt 11	254.	1.2	.2	.2	.0	.0	.0	.7	.0	.1
12. Recpt 12	189.	.8	.0	.0	.0	.1	.2	.0	.0	.0
13. Recpt 13	190.	.7	.0	.0	.0	.0	.1	.0	.0	.0
14. Recpt 14	255.	1.1	.2	.2	.0	.0	.1	.5	.0	.0
15. Recpt 15	256.	1.1	.1	.2	.0	.1	.3	.3	.0	.0
16. Recpt 16	282.	1.4	.2	.3	.0	.0	.0	.4	.0	.0
17. Recpt 17	331.	1.0	.0	.0	.0	.0	.0	.2	.0	.0
18. Recpt 18	337.	.9	.0	.0	.0	.0	.0	.1	.0	.0
19. Recpt 19	281.	1.1	.2	.2	.0	.0	.0	.4	.0	.0
20. Recpt 20	281.	1.0	.1	.1	.2	.0	.0	.4	.0	.0

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

     JOB: I15 SB and Carroll Canyon 2015 am
     RUN: Hour 1           (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide
```

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

RECEPTOR	(PPM) I
1. Recpt 1	.3
2. Recpt 2	.2
3. Recpt 3	.1
4. Recpt 4	.2
5. Recpt 5	.4
6. Recpt 6	.6
7. Recpt 7	.0
8. Recpt 8	.0
9. Recpt 9	.5
10. Recpt 10	.4
11. Recpt 11	.0
12. Recpt 12	.4
13. Recpt 13	.3
14. Recpt 14	.0
15. Recpt 15	.0
16. Recpt 16	.4
17. Recpt 17	.6
18. Recpt 18	.6
19. Recpt 19	.2
20. Recpt 20	.1

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

     JOB: I15 SB and Carroll Canyon 2015 pm
     RUN: Hour 1           (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide
```

I. SITE VARIABLES

```
      U=    .5 M/S            Z0= 100. CM           ALT=     0. (M)
    BRG= WORST CASE           VD=   .0 CM/S
   CLAS=     7 (G)            VS=   .0 CM/S
   MIXH= 1000. M             AMB=   .0 PPM
  SIGTH=   10. DEGREES       TEMP= 16.0 DEGREE (C)
```

II. LINK VARIABLES

LINK DESCRIPTION	LINK COORDINATES (M) X1	Y1	X2	Y2	TYPE	VPH	EF (G/MI)	H (M)	W (M)
A. CC EBTA	8900	576	9050	581	AG	795	5.0	.0	10.0
B. CC EBRA	8900	573	9050	578	AG	361	5.0	.0	10.0
C. CC EBD	9050	581	9200	581	AG	925	5.0	.0	10.0
D. CC WBLA	9200	585	9050	585	AG	660	5.0	.0	10.0
E. CC WBTA	9200	589	9050	589	AG	952	5.0	.0	10.0
F. CC WBD	9050	589	8900	584	AG	1181	5.0	.0	10.0
G. I15 SBLA	9071	738	9050	585	AG	140	5.0	.0	10.0
H. I15 SBRA	9067	738	9046	585	AG	229	5.0	.0	10.0
I. I15 SBD	9050	585	9065	433	AG	1031	5.0	.0	10.0

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

JOB: I15 SB and Carroll Canyon 2015 pm
RUN: Hour 1 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

III. RECEPTOR LOCATIONS

RECEPTOR	COORDINATES (M) X	Y	Z
1. Recpt 1	9040	570	1.8
2. Recpt 2	9020	568	1.8
3. Recpt 3	9000	566	1.8
4. Recpt 4	9042	550	1.8
5. Recpt 5	9044	530	1.8
6. Recpt 6	9040	600	1.8
7. Recpt 7	9020	599	1.8
8. Recpt 8	9000	598	1.8
9. Recpt 9	9043	620	1.8
10. Recpt 10	9046	640	1.8
11. Recpt 11	9060	600	1.8
12. Recpt 12	9063	620	1.8
13. Recpt 13	9066	640	1.8
14. Recpt 14	9080	600	1.8
15. Recpt 15	9100	600	1.8
16. Recpt 16	9060	570	1.8
17. Recpt 17	9062	550	1.8
18. Recpt 18	9064	530	1.8
19. Recpt 19	9080	570	1.8
20. Recpt 20	9100	570	1.8

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

JOB: I15 SB and Carroll Canyon 2015 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. Recpt 1	75.	1.2	.0	.0	.4	.2	.3	.0	.0	.0
2. Recpt 2	75.	1.1	.0	.0	.3	.2	.3	.0	.0	.0
3. Recpt 3	76.	1.0	.1	.1	.2	.2	.2	.0	.0	.0
4. Recpt 4	67.	.8	.0	.0	.2	.1	.2	.0	.0	.0
5. Recpt 5	11.	.7	.0	.0	.0	.0	.0	.0	.0	.0
6. Recpt 6	104.	1.0	.0	.0	.3	.2	.4	.0	.0	.0
7. Recpt 7	103.	1.1	.0	.0	.3	.2	.3	.1	.0	.0
8. Recpt 8	101.	1.1	.0	.0	.3	.2	.2	.3	.0	.0
9. Recpt 9	171.	.9	.0	.0	.0	.0	.0	.1	.0	.0
10. Recpt 10	174.	.7	.0	.0	.0	.0	.0	.0	.0	.1
11. Recpt 11	187.	1.0	.0	.0	.2	.1	.2	.0	.0	.0
12. Recpt 12	188.	.7	.0	.0	.1	.0	.1	.0	.0	.0
13. Recpt 13	188.	.6	.0	.0	.0	.0	.0	.0	.0	.0
14. Recpt 14	255.	1.0	.3	.1	.0	.0	.1	.4	.0	.0
15. Recpt 15	254.	1.0	.2	.1	.0	.1	.3	.2	.0	.0
16. Recpt 16	282.	1.2	.3	.2	.0	.0	.0	.3	.0	.0
17. Recpt 17	291.	.8	.2	.0	.0	.0	.0	.2	.0	.0
18. Recpt 18	337.	.8	.0	.0	.0	.0	.0	.1	.0	.0
19. Recpt 19	281.	1.0	.3	.1	.0	.0	.0	.3	.0	.0
20. Recpt 20	282.	.9	.2	.0	.2	.0	.0	.3	.0	.0

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

     JOB: I15 SB and Carroll Canyon 2015 pm
     RUN: Hour 1           (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide
```

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

RECEPTOR	(PPM) I
1. Recpt 1	.3
2. Recpt 2	.1
3. Recpt 3	.0
4. Recpt 4	.3
5. Recpt 5	.3
6. Recpt 6	.0
7. Recpt 7	.0
8. Recpt 8	.0
9. Recpt 9	.4
10. Recpt 10	.3
11. Recpt 11	.4
12. Recpt 12	.3
13. Recpt 13	.3
14. Recpt 14	.0
15. Recpt 15	.0
16. Recpt 16	.3
17. Recpt 17	.3
18. Recpt 18	.5
19. Recpt 19	.2
20. Recpt 20	.0

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

JOB: Camino Santa Fe and Mira Mesa am 2025A
RUN: Hour 1 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

I. SITE VARIABLES

U=	.5 M/S	Z0=	100. CM	ALT=	0. (M)
BRG=	WORST CASE	VD=	.0 CM/S		
CLAS=	7 (G)	VS=	.0 CM/S		
MIXH=	1000. M	AMB=	.0 PPM		
SIGTH=	10. DEGREES	TEMP=	16.0 DEGREE (C)		

II. LINK VARIABLES

LINK DESCRIPTION	LINK COORDINATES (M) X1	Y1	X2	Y2	TYPE	VPH	EF (G/MI)	H (M)	W (M)
A. MM EBLA	-150	0	0	0	AG	10	2.2	.0	10.0
B. MM EBTA	-150	-4	0	-4	AG	570	2.2	.0	10.0
C. MM EBRA	-150	-7	0	-7	AG	90	2.2	.0	10.0
D. MM EBD	0	-4	150	-4	AG	670	2.2	.0	10.0
E. MM WBLA	150	0	0	0	AG	530	2.2	.0	10.0
F. MM WBTA	150	4	0	4	AG	2870	2.2	.0	10.0
G. MM WBRA	150	7	0	7	AG	200	2.2	.0	10.0
H. MM WBD	0	4	-150	4	AG	3100	2.2	.0	10.0
I. CSF NBLA	0	-150	0	0	AG	150	2.2	.0	10.0
J. CSF NBTA	4	-150	4	0	AG	111	2.2	.0	10.0
K. CSF NBRA	7	-150	7	0	AG	60	2.2	.0	10.0
L. CSF NBD	4	0	4	150	AG	321	2.2	.0	10.0
M. CSF SBLA	0	150	0	0	AG	40	2.2	.0	10.0
N. CSF SBTA	-4	150	-4	0	AG	316	2.2	.0	10.0
O. CSF SBRA	-7	150	-7	0	AG	80	2.2	.0	10.0
P. CSF SBD	-4	0	-4	-150	AG	936	2.2	.0	10.0

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

     JOB: Camino Santa Fe and Mira Mesa am 2025A
     RUN: Hour 1           (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide
```

III. RECEPTOR LOCATIONS

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

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

JOB: Camino Santa Fe and Mira Mesa am 2025A
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. Recpt 1	73.	.6	.0	.0	.0	.1	.0	.3	.0	.0
2. Recpt 2	74.	.6	.0	.0	.0	.0	.0	.3	.0	.0
3. Recpt 3	77.	.6	.0	.0	.0	.0	.0	.2	.0	.0
4. Recpt 4	66.	.4	.0	.0	.0	.0	.0	.2	.0	.0
5. Recpt 5	20.	.4	.0	.0	.0	.0	.0	.0	.0	.0
6. Recpt 6	103.	.8	.0	.0	.0	.0	.0	.4	.0	.0
7. Recpt 7	102.	.8	.0	.0	.0	.0	.0	.3	.0	.2
8. Recpt 8	101.	.8	.0	.0	.0	.0	.0	.2	.0	.3
9. Recpt 9	112.	.4	.0	.0	.0	.0	.0	.2	.0	.0
10. Recpt 10	169.	.4	.0	.0	.0	.0	.0	.0	.0	.1
11. Recpt 11	285.	.6	.0	.1	.0	.0	.0	.0	.0	.3
12. Recpt 12	285.	.6	.0	.0	.0	.0	.0	.0	.0	.3
13. Recpt 13	286.	.6	.0	.0	.0	.1	.0	.1	.0	.2
14. Recpt 14	293.	.4	.0	.0	.0	.0	.0	.0	.0	.2
15. Recpt 15	300.	.3	.0	.0	.0	.0	.0	.0	.0	.1
16. Recpt 16	195.	.6	.0	.0	.0	.0	.0	.3	.0	.0
17. Recpt 17	252.	.6	.0	.0	.0	.0	.0	.1	.0	.3
18. Recpt 18	251.	.6	.0	.0	.0	.0	.0	.3	.0	.0
19. Recpt 19	192.	.5	.0	.0	.0	.0	.0	.1	.0	.0
20. Recpt 20	190.	.4	.0	.0	.0	.0	.0	.0	.0	.0

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

JOB: Camino Santa Fe and Mira Mesa am 2025A
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. Recpt 1	.0	.0	.0	.0	.0	.0	.0	.1
2. Recpt 2	.0	.0	.0	.0	.0	.0	.0	.0
3. Recpt 3	.0	.0	.0	.0	.0	.0	.0	.0
4. Recpt 4	.0	.0	.0	.0	.0	.0	.0	.1
5. Recpt 5	.0	.0	.0	.0	.0	.0	.0	.2
6. Recpt 6	.0	.0	.0	.0	.0	.0	.0	.0
7. Recpt 7	.0	.0	.0	.0	.0	.0	.0	.0
8. Recpt 8	.0	.0	.0	.0	.0	.0	.0	.0
9. Recpt 9	.0	.0	.0	.0	.0	.0	.0	.0
10. Recpt 10	.0	.0	.0	.0	.0	.0	.0	.1
11. Recpt 11	.0	.0	.0	.0	.0	.0	.0	.0
12. Recpt 12	.0	.0	.0	.0	.0	.0	.0	.0
13. Recpt 13	.0	.0	.0	.0	.0	.0	.0	.0
14. Recpt 14	.0	.0	.0	.0	.0	.0	.0	.0
15. Recpt 15	.0	.0	.0	.0	.0	.0	.0	.0
16. Recpt 16	.0	.0	.0	.0	.0	.0	.0	.1
17. Recpt 17	.0	.0	.0	.0	.0	.0	.0	.0
18. Recpt 18	.0	.0	.0	.0	.0	.0	.0	.0
19. Recpt 19	.0	.0	.0	.0	.0	.0	.0	.1
20. Recpt 20	.0	.0	.0	.0	.0	.0	.0	.1

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

     JOB: Camino Santa Fe and Mira Mesa pm 2025A
     RUN: Hour 1           (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide
```

I. SITE VARIABLES

```
      U=    .5 M/S            Z0= 100. CM           ALT=     0. (M)
    BRG= WORST CASE           VD=   .0 CM/S
   CLAS=     7 (G)            VS=   .0 CM/S
   MIXH= 1000. M             AMB=   .0 PPM
  SIGTH=   10. DEGREES       TEMP= 16.0 DEGREE (C)
```

II. LINK VARIABLES

LINK DESCRIPTION	LINK COORDINATES (M) X1	Y1	X2	Y2	TYPE	VPH	EF (G/MI)	H (M)	W (M)
A. MM EBLA	-150	0	0	0	AG	100	2.2	.0	10.0
B. MM EBTA	-150	-4	0	-4	AG	2420	2.2	.0	10.0
C. MM EBRA	-150	-7	0	-7	AG	130	2.2	.0	10.0
D. MM EBD	0	-4	150	-4	AG	2750	2.2	.0	10.0
E. MM WBLA	150	0	0	0	AG	180	2.2	.0	10.0
F. MM WBTA	150	4	0	4	AG	540	2.2	.0	10.0
G. MM WBRA	150	7	0	7	AG	110	2.2	.0	10.0
H. MM WBD	0	4	-150	4	AG	730	2.2	.0	10.0
I. CSF NBLA	0	-150	0	0	AG	180	2.2	.0	10.0
J. CSF NBTA	4	-150	4	0	AG	318	2.2	.0	10.0
K. CSF NBRA	7	-150	7	0	AG	330	2.2	.0	10.0
L. CSF NBD	4	0	4	150	AG	528	2.2	.0	10.0
M. CSF SBLA	0	150	0	0	AG	240	2.2	.0	10.0
N. CSF SBTA	-4	150	-4	0	AG	222	2.2	.0	10.0
O. CSF SBRA	-7	150	-7	0	AG	30	2.2	.0	10.0
P. CSF SBD	-4	0	-4	-150	AG	532	2.2	.0	10.0

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

JOB: Camino Santa Fe and Mira Mesa pm 2025A
RUN: Hour 1 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

III. RECEPTOR LOCATIONS

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

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

JOB: Camino Santa Fe and Mira Mesa pm 2025A
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. Recpt 1	74.	.6	.0	.0	.0	.4	.0	.0	.0	.0
2. Recpt 2	76.	.6	.0	.0	.0	.3	.0	.0	.0	.0
3. Recpt 3	77.	.6	.0	.2	.0	.2	.0	.0	.0	.0
4. Recpt 4	66.	.4	.0	.0	.0	.2	.0	.0	.0	.0
5. Recpt 5	13.	.4	.0	.0	.0	.0	.0	.0	.0	.0
6. Recpt 6	105.	.6	.0	.0	.0	.3	.0	.1	.0	.0
7. Recpt 7	104.	.6	.0	.0	.0	.3	.0	.0	.0	.0
8. Recpt 8	104.	.6	.0	.1	.0	.2	.0	.0	.0	.1
9. Recpt 9	166.	.4	.0	.1	.0	.0	.0	.0	.0	.0
10. Recpt 10	168.	.4	.0	.0	.0	.0	.0	.0	.0	.0
11. Recpt 11	283.	.7	.0	.4	.0	.0	.0	.0	.0	.1
12. Recpt 12	282.	.7	.0	.3	.0	.2	.0	.0	.0	.1
13. Recpt 13	282.	.7	.0	.1	.0	.3	.0	.0	.0	.0
14. Recpt 14	292.	.4	.0	.2	.0	.0	.0	.0	.0	.0
15. Recpt 15	345.	.4	.0	.0	.0	.0	.0	.0	.0	.0
16. Recpt 16	191.	.5	.0	.0	.0	.2	.0	.0	.0	.0
17. Recpt 17	254.	.5	.0	.2	.0	.0	.0	.0	.0	.0
18. Recpt 18	254.	.5	.0	.2	.0	.0	.0	.0	.0	.0
19. Recpt 19	190.	.4	.0	.0	.0	.1	.0	.0	.0	.0
20. Recpt 20	190.	.4	.0	.0	.0	.0	.0	.0	.0	.0

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

JOB: Camino Santa Fe and Mira Mesa pm 2025A
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. Recpt 1	.0	.0	.0	.0	.0	.0	.0	.0
2. Recpt 2	.0	.0	.0	.0	.0	.0	.0	.0
3. Recpt 3	.0	.0	.0	.0	.0	.0	.0	.0
4. Recpt 4	.0	.0	.0	.0	.0	.0	.0	.0
5. Recpt 5	.0	.0	.0	.0	.0	.0	.0	.0
6. Recpt 6	.0	.0	.0	.0	.0	.0	.0	.0
7. Recpt 7	.0	.0	.0	.0	.0	.0	.0	.0
8. Recpt 8	.0	.0	.0	.0	.0	.0	.0	.0
9. Recpt 9	.0	.0	.0	.0	.0	.0	.0	.0
10. Recpt 10	.0	.0	.0	.0	.0	.0	.0	.0
11. Recpt 11	.0	.0	.0	.0	.0	.0	.0	.0
12. Recpt 12	.0	.0	.0	.0	.0	.0	.0	.0
13. Recpt 13	.0	.0	.0	.0	.0	.0	.0	.0
14. Recpt 14	.0	.0	.0	.0	.0	.0	.0	.0
15. Recpt 15	.0	.0	.0	.0	.0	.0	.0	.0
16. Recpt 16	.0	.0	.0	.0	.0	.0	.0	.0
17. Recpt 17	.0	.0	.0	.0	.0	.0	.0	.0
18. Recpt 18	.0	.0	.0	.0	.0	.0	.0	.0
19. Recpt 19	.0	.0	.0	.0	.0	.0	.0	.0
20. Recpt 20	.0	.0	.0	.0	.0	.0	.0	.0

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

     JOB: I15 NB and Carroll Canyon 2025A am
     RUN: Hour 1           (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide
```

I. SITE VARIABLES

```
   U=    .5 M/S            Z0= 100. CM           ALT=     0. (M)
 BRG= WORST CASE           VD=   .0 CM/S
CLAS=     7 (G)            VS=   .0 CM/S
MIXH= 1000. M             AMB=   .0 PPM
SIGTH=   10. DEGREES      TEMP= 16.0 DEGREE (C)
```

II. LINK VARIABLES

LINK DESCRIPTION	*	LINK COORDINATES (M) X1	Y1	X2	Y2	* TYPE	VPH	EF (G/MI)	H (M)	W (M)
A. CC WBTA	*	9328	599	9178	589	* AG	1429	2.2	.0	10.0
B. CC WBRA	*	9328	602	9178	592	* AG	200	2.2	.0	10.0
C. CC WBD	*	9178	592	9028	592	* AG	2113	2.2	.0	10.0
D. CC EBLA	*	9028	585	9178	585	* AG	369	2.2	.0	10.0
E. CC EBTA	*	9028	581	9178	581	* AG	586	2.2	.0	10.0
F. CC EBD	*	9178	581	9328	591	* AG	1206	2.2	.0	10.0
G. I15 NBLA	*	9163	433	9178	585	* AG	684	2.2	.0	10.0
H. I15 NBRA	*	9167	433	9182	585	* AG	630	2.2	.0	10.0
I. I15 NBD	*	9178	585	9162	736	* AG	579	2.2	.0	10.0

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

JOB: I15 NB and Carroll Canyon 2025A am
RUN: Hour 1 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

III. RECEPTOR LOCATIONS

RECEPTOR	COORDINATES (M) X	Y	Z
1. Recpt 1	9168	571	1.8
2. Recpt 2	9166	551	1.8
3. Recpt 3	9164	531	1.8
4. Recpt 4	9148	571	1.8
5. Recpt 5	9128	571	1.8
6. Recpt 6	9128	602	1.8
7. Recpt 7	9148	602	1.8
8. Recpt 8	9168	602	1.8
9. Recpt 9	9165	622	1.8
10. Recpt 10	9162	642	1.8
11. Recpt 11	9190	571	1.8
12. Recpt 12	9188	551	1.8
13. Recpt 13	9186	531	1.8
14. Recpt 14	9210	573	1.8
15. Recpt 15	9230	575	1.8
16. Recpt 16	9190	602	1.8
17. Recpt 17	9188	622	1.8
18. Recpt 18	9186	642	1.8
19. Recpt 19	9210	604	1.8
20. Recpt 20	9230	606	1.8

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

JOB: I15 NB and Carroll Canyon 2025A 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. Recpt 1	72.	.6	.2	.0	.0	.0	.0	.2	.0	.0
2. Recpt 2	64.	.4	.1	.0	.0	.0	.0	.1	.0	.0
3. Recpt 3	29.	.4	.0	.0	.0	.0	.0	.0	.1	.0
4. Recpt 4	76.	.5	.2	.0	.0	.0	.0	.2	.0	.0
5. Recpt 5	78.	.5	.2	.0	.0	.0	.0	.1	.0	.0
6. Recpt 6	106.	.6	.0	.0	.3	.0	.0	.1	.0	.0
7. Recpt 7	115.	.6	.0	.0	.3	.0	.0	.1	.0	.0
8. Recpt 8	150.	.6	.0	.0	.2	.0	.0	.0	.0	.0
9. Recpt 9	170.	.4	.0	.0	.1	.0	.0	.0	.0	.0
10. Recpt 10	169.	.3	.0	.0	.0	.0	.0	.0	.0	.0
11. Recpt 11	287.	.5	.0	.0	.2	.0	.1	.0	.0	.0
12. Recpt 12	344.	.4	.0	.0	.0	.0	.0	.0	.0	.0
13. Recpt 13	348.	.4	.0	.0	.0	.0	.0	.0	.0	.1
14. Recpt 14	286.	.6	.0	.0	.2	.0	.0	.1	.0	.0
15. Recpt 15	282.	.6	.0	.0	.2	.0	.0	.2	.0	.0
16. Recpt 16	257.	.6	.0	.0	.4	.0	.0	.0	.0	.0
17. Recpt 17	190.	.4	.0	.0	.0	.0	.0	.0	.1	.1
18. Recpt 18	187.	.4	.0	.0	.0	.0	.0	.0	.0	.0
19. Recpt 19	258.	.5	.0	.0	.3	.0	.0	.0	.0	.0
20. Recpt 20	256.	.4	.0	.0	.2	.0	.0	.0	.0	.0

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

     JOB: I15 NB and Carroll Canyon 2025A am
     RUN: Hour 1           (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide
```

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

RECEPTOR	(PPM) I
1. Recpt 1	.0
2. Recpt 2	.0
3. Recpt 3	.0
4. Recpt 4	.0
5. Recpt 5	.0
6. Recpt 6	.0
7. Recpt 7	.0
8. Recpt 8	.0
9. Recpt 9	.0
10. Recpt 10	.0
11. Recpt 11	.0
12. Recpt 12	.0
13. Recpt 13	.0
14. Recpt 14	.0
15. Recpt 15	.0
16. Recpt 16	.0
17. Recpt 17	.0
18. Recpt 18	.0
19. Recpt 19	.0
20. Recpt 20	.0

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

JOB: I15 NB and Carroll Canyon 2025A pm
RUN: Hour 1 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

I. SITE VARIABLES

U=	.5 M/S	Z0=	100. CM	ALT=	0. (M)
BRG=	WORST CASE	VD=	.0 CM/S		
CLAS=	7 (G)	VS=	.0 CM/S		
MIXH=	1000. M	AMB=	.0 PPM		
SIGTH=	10. DEGREES	TEMP=	16.0 DEGREE (C)		

II. LINK VARIABLES

LINK DESCRIPTION	LINK COORDINATES (M) X1	Y1	X2	Y2	TYPE	VPH	EF (G/MI)	H (M)	W (M)
A. CC WBTA	9328	599	9178	589	AG	959	2.2	.0	10.0
B. CC WBRA	9328	602	9178	592	AG	240	2.2	.0	10.0
C. CC WBD	9178	592	9028	592	AG	1786	2.2	.0	10.0
D. CC EBLA	9028	585	9178	585	AG	479	2.2	.0	10.0
E. CC EBTA	9028	581	9178	581	AG	719	2.2	.0	10.0
F. CC EBD	9178	581	9328	591	AG	1199	2.2	.0	10.0
G. I15 NBLA	9163	433	9178	585	AG	827	2.2	.0	10.0
H. I15 NBRA	9167	433	9182	585	AG	490	2.2	.0	10.0
I. I15 NBD	9178	585	9162	736	AG	729	2.2	.0	10.0

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

JOB: I15 NB and Carroll Canyon 2025A pm
RUN: Hour 1 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

III. RECEPTOR LOCATIONS

RECEPTOR	COORDINATES (M) X	Y	Z
1. Recpt 1	9168	571	1.8
2. Recpt 2	9166	551	1.8
3. Recpt 3	9164	531	1.8
4. Recpt 4	9148	571	1.8
5. Recpt 5	9128	571	1.8
6. Recpt 6	9128	602	1.8
7. Recpt 7	9148	602	1.8
8. Recpt 8	9168	602	1.8
9. Recpt 9	9165	622	1.8
10. Recpt 10	9162	642	1.8
11. Recpt 11	9190	571	1.8
12. Recpt 12	9188	551	1.8
13. Recpt 13	9186	531	1.8
14. Recpt 14	9210	573	1.8
15. Recpt 15	9230	575	1.8
16. Recpt 16	9190	602	1.8
17. Recpt 17	9188	622	1.8
18. Recpt 18	9186	642	1.8
19. Recpt 19	9210	604	1.8
20. Recpt 20	9230	606	1.8

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

JOB: I15 NB and Carroll Canyon 2025A 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. Recpt 1	72.	.6	.1	.0	.0	.0	.0	.2	.1	.0
2. Recpt 2	64.	.4	.0	.0	.0	.0	.0	.1	.1	.0
3. Recpt 3	28.	.4	.0	.0	.0	.0	.0	.0	.2	.0
4. Recpt 4	76.	.5	.1	.0	.0	.0	.0	.2	.0	.0
5. Recpt 5	77.	.5	.1	.0	.0	.0	.0	.1	.0	.0
6. Recpt 6	110.	.5	.0	.0	.3	.0	.0	.0	.0	.0
7. Recpt 7	116.	.5	.0	.0	.3	.0	.0	.1	.0	.0
8. Recpt 8	172.	.5	.0	.0	.2	.0	.0	.0	.2	.0
9. Recpt 9	170.	.4	.0	.0	.1	.0	.0	.0	.1	.0
10. Recpt 10	169.	.3	.0	.0	.0	.0	.0	.0	.0	.0
11. Recpt 11	287.	.6	.0	.0	.2	.0	.1	.0	.0	.0
12. Recpt 12	345.	.4	.0	.0	.0	.0	.0	.0	.0	.0
13. Recpt 13	348.	.4	.0	.0	.0	.0	.0	.0	.0	.0
14. Recpt 14	283.	.6	.0	.0	.2	.0	.0	.1	.0	.0
15. Recpt 15	281.	.6	.0	.0	.2	.0	.0	.2	.0	.0
16. Recpt 16	257.	.6	.0	.0	.3	.0	.0	.0	.0	.0
17. Recpt 17	190.	.4	.0	.0	.0	.0	.0	.0	.1	.0
18. Recpt 18	188.	.4	.0	.0	.0	.0	.0	.0	.1	.0
19. Recpt 19	258.	.5	.0	.0	.2	.0	.0	.0	.0	.0
20. Recpt 20	257.	.4	.0	.0	.2	.0	.0	.0	.0	.0

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

     JOB: I15 NB and Carroll Canyon 2025A pm
     RUN: Hour 1           (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide
```

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

RECEPTOR	(PPM) I
1. Recpt 1	.0
2. Recpt 2	.0
3. Recpt 3	.0
4. Recpt 4	.0
5. Recpt 5	.0
6. Recpt 6	.0
7. Recpt 7	.0
8. Recpt 8	.0
9. Recpt 9	.0
10. Recpt 10	.0
11. Recpt 11	.0
12. Recpt 12	.1
13. Recpt 13	.0
14. Recpt 14	.0
15. Recpt 15	.0
16. Recpt 16	.0
17. Recpt 17	.0
18. Recpt 18	.0
19. Recpt 19	.0
20. Recpt 20	.0

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

     JOB: I15 SB and Carroll Canyon 2025A am
     RUN: Hour 1           (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide
```

I. SITE VARIABLES

```
   U=    .5 M/S            Z0= 100. CM           ALT=     0. (M)
 BRG= WORST CASE           VD=   .0 CM/S
CLAS=     7 (G)            VS=   .0 CM/S
MIXH= 1000. M             AMB=   .0 PPM
SIGTH=   10. DEGREES      TEMP= 16.0 DEGREE (C)
```

II. LINK VARIABLES

LINK DESCRIPTION	LINK COORDINATES (M) X1	Y1	X2	Y2	TYPE	VPH	EF (G/MI)	H (M)	W (M)
A. CC EBTA	8900	576	9050	581	AG	635	2.2	.0	10.0
B. CC EBRA	8900	573	9050	578	AG	707	2.2	.0	10.0
C. CC EBD	9050	581	9200	581	AG	955	2.2	.0	10.0
D. CC WBLA	9200	585	9050	585	AG	780	2.2	.0	10.0
E. CC WBTA	9200	589	9050	589	AG	1333	2.2	.0	10.0
F. CC WBD	9050	589	8900	584	AG	1980	2.2	.0	10.0
G. I15 SBLA	9071	738	9050	585	AG	320	2.2	.0	10.0
H. I15 SBRA	9067	738	9046	585	AG	657	2.2	.0	10.0
I. I15 SBD	9050	585	9065	433	AG	1497	2.2	.0	10.0

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

JOB: I15 SB and Carroll Canyon 2025A am
RUN: Hour 1 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

III. RECEPTOR LOCATIONS

RECEPTOR	COORDINATES (M) X	Y	Z
1. Recpt 1	9040	570	1.8
2. Recpt 2	9020	568	1.8
3. Recpt 3	9000	566	1.8
4. Recpt 4	9042	550	1.8
5. Recpt 5	9044	530	1.8
6. Recpt 6	9040	600	1.8
7. Recpt 7	9020	599	1.8
8. Recpt 8	9000	598	1.8
9. Recpt 9	9043	620	1.8
10. Recpt 10	9046	640	1.8
11. Recpt 11	9060	600	1.8
12. Recpt 12	9063	620	1.8
13. Recpt 13	9066	640	1.8
14. Recpt 14	9080	600	1.8
15. Recpt 15	9100	600	1.8
16. Recpt 16	9060	570	1.8
17. Recpt 17	9062	550	1.8
18. Recpt 18	9064	530	1.8
19. Recpt 19	9080	570	1.8
20. Recpt 20	9100	570	1.8

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

JOB: I15 SB and Carroll Canyon 2025A 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. Recpt 1	74.	.6	.0	.0	.2	.1	.2	.0	.0	.0
2. Recpt 2	74.	.6	.0	.0	.1	.1	.2	.0	.0	.0
3. Recpt 3	76.	.5	.0	.0	.0	.0	.1	.0	.0	.0
4. Recpt 4	11.	.5	.0	.0	.0	.0	.0	.0	.0	.1
5. Recpt 5	9.	.4	.0	.0	.0	.0	.0	.0	.0	.0
6. Recpt 6	164.	.7	.0	.0	.0	.0	.0	.2	.0	.0
7. Recpt 7	103.	.6	.0	.0	.1	.1	.2	.0	.0	.0
8. Recpt 8	101.	.6	.0	.0	.1	.0	.1	.2	.0	.0
9. Recpt 9	171.	.6	.0	.0	.0	.0	.0	.0	.0	.1
10. Recpt 10	174.	.5	.0	.0	.0	.0	.0	.0	.0	.1
11. Recpt 11	253.	.6	.0	.0	.0	.0	.0	.3	.0	.0
12. Recpt 12	245.	.4	.0	.0	.0	.0	.0	.2	.0	.0
13. Recpt 13	210.	.3	.0	.0	.0	.0	.0	.0	.0	.1
14. Recpt 14	255.	.6	.0	.0	.0	.0	.0	.2	.0	.0
15. Recpt 15	256.	.6	.0	.0	.0	.0	.1	.1	.0	.0
16. Recpt 16	282.	.7	.1	.2	.0	.0	.0	.2	.0	.0
17. Recpt 17	331.	.5	.0	.0	.0	.0	.0	.0	.0	.0
18. Recpt 18	337.	.5	.0	.0	.0	.0	.0	.0	.0	.0
19. Recpt 19	281.	.5	.1	.1	.0	.0	.0	.2	.0	.0
20. Recpt 20	281.	.5	.0	.0	.0	.0	.0	.2	.0	.0

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

     JOB: I15 SB and Carroll Canyon 2025A am
     RUN: Hour 1           (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide
```

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

RECEPTOR	(PPM) I
1. Recpt 1	.2
2. Recpt 2	.0
3. Recpt 3	.0
4. Recpt 4	.1
5. Recpt 5	.2
6. Recpt 6	.3
7. Recpt 7	.0
8. Recpt 8	.0
9. Recpt 9	.2
10. Recpt 10	.2
11. Recpt 11	.0
12. Recpt 12	.0
13. Recpt 13	.0
14. Recpt 14	.0
15. Recpt 15	.0
16. Recpt 16	.2
17. Recpt 17	.3
18. Recpt 18	.3
19. Recpt 19	.0
20. Recpt 20	.0

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

JOB: I15 SB and Carroll Canyon 2025A pm
RUN: Hour 1 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

I. SITE VARIABLES

U=	.5 M/S	Z0=	100. CM	ALT=	0. (M)
BRG=	WORST CASE	VD=	.0 CM/S		
CLAS=	7 (G)	VS=	.0 CM/S		
MIXH=	1000. M	AMB=	.0 PPM		
SIGTH=	10. DEGREES	TEMP=	16.0 DEGREE (C)		

II. LINK VARIABLES

LINK DESCRIPTION	*	LINK COORDINATES (M) X1	Y1	X2	Y2	* TYPE	VPH	EF (G/MI)	H (M)	W (M)
A. CC EBTA	*	8900	576	9050	581	* AG	1038	2.2	.0	10.0
B. CC EBRA	*	8900	573	9050	578	* AG	487	2.2	.0	10.0
C. CC EBD	*	9050	581	9200	581	* AG	1198	2.2	.0	10.0
D. CC WBLA	*	9200	585	9050	585	* AG	590	2.2	.0	10.0
E. CC WBTA	*	9200	589	9050	589	* AG	1096	2.2	.0	10.0
F. CC WBD	*	9050	589	8900	584	* AG	1383	2.2	.0	10.0
G. I15 SBLA	*	9071	738	9050	585	* AG	160	2.2	.0	10.0
H. I15 SBRA	*	9067	738	9046	585	* AG	297	2.2	.0	10.0
I. I15 SBD	*	9050	585	9065	433	* AG	1087	2.2	.0	10.0

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

JOB: I15 SB and Carroll Canyon 2025A pm
RUN: Hour 1 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

III. RECEPTOR LOCATIONS

RECEPTOR	COORDINATES (M) X	Y	Z
1. Recpt 1	9040	570	1.8
2. Recpt 2	9020	568	1.8
3. Recpt 3	9000	566	1.8
4. Recpt 4	9042	550	1.8
5. Recpt 5	9044	530	1.8
6. Recpt 6	9040	600	1.8
7. Recpt 7	9020	599	1.8
8. Recpt 8	9000	598	1.8
9. Recpt 9	9043	620	1.8
10. Recpt 10	9046	640	1.8
11. Recpt 11	9060	600	1.8
12. Recpt 12	9063	620	1.8
13. Recpt 13	9066	640	1.8
14. Recpt 14	9080	600	1.8
15. Recpt 15	9100	600	1.8
16. Recpt 16	9060	570	1.8
17. Recpt 17	9062	550	1.8
18. Recpt 18	9064	530	1.8
19. Recpt 19	9080	570	1.8
20. Recpt 20	9100	570	1.8

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

JOB: I15 SB and Carroll Canyon 2025A 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. Recpt 1	74.	.6	.0	.0	.2	.0	.1	.0	.0	.0
2. Recpt 2	74.	.5	.0	.0	.2	.0	.1	.0	.0	.0
3. Recpt 3	76.	.5	.0	.0	.1	.0	.1	.0	.0	.0
4. Recpt 4	67.	.4	.0	.0	.1	.0	.0	.0	.0	.0
5. Recpt 5	10.	.3	.0	.0	.0	.0	.0	.0	.0	.0
6. Recpt 6	165.	.5	.0	.0	.0	.0	.0	.1	.0	.0
7. Recpt 7	103.	.5	.0	.0	.2	.0	.2	.0	.0	.0
8. Recpt 8	101.	.5	.0	.0	.1	.0	.1	.1	.0	.0
9. Recpt 9	171.	.4	.0	.0	.0	.0	.0	.0	.0	.0
10. Recpt 10	174.	.4	.0	.0	.0	.0	.0	.0	.0	.0
11. Recpt 11	253.	.5	.1	.0	.0	.0	.0	.3	.0	.0
12. Recpt 12	189.	.3	.0	.0	.0	.0	.0	.0	.0	.0
13. Recpt 13	189.	.3	.0	.0	.0	.0	.0	.0	.0	.0
14. Recpt 14	255.	.5	.1	.0	.0	.0	.0	.2	.0	.0
15. Recpt 15	255.	.5	.1	.0	.0	.0	.1	.1	.0	.0
16. Recpt 16	282.	.6	.2	.1	.0	.0	.0	.2	.0	.0
17. Recpt 17	291.	.4	.0	.0	.0	.0	.0	.1	.0	.0
18. Recpt 18	336.	.4	.0	.0	.0	.0	.0	.0	.0	.0
19. Recpt 19	281.	.5	.2	.0	.0	.0	.0	.2	.0	.0
20. Recpt 20	281.	.5	.1	.0	.1	.0	.0	.1	.0	.0

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

     JOB: I15 SB and Carroll Canyon 2025A pm
     RUN: Hour 1           (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide
```

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

RECEPTOR	(PPM) I
1. Recpt 1	.1
2. Recpt 2	.0
3. Recpt 3	.0
4. Recpt 4	.1
5. Recpt 5	.1
6. Recpt 6	.2
7. Recpt 7	.0
8. Recpt 8	.0
9. Recpt 9	.2
10. Recpt 10	.1
11. Recpt 11	.0
12. Recpt 12	.1
13. Recpt 13	.1
14. Recpt 14	.0
15. Recpt 15	.0
16. Recpt 16	.1
17. Recpt 17	.1
18. Recpt 18	.2
19. Recpt 19	.0
20. Recpt 20	.0

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

JOB: Camino Santa Fe and Mira Mesa am 2025B
RUN: Hour 1 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

I. SITE VARIABLES

U=	.5 M/S	Z0=	100. CM	ALT=	0. (M)
BRG=	WORST CASE	VD=	.0 CM/S		
CLAS=	7 (G)	VS=	.0 CM/S		
MIXH=	1000. M	AMB=	.0 PPM		
SIGTH=	10. DEGREES	TEMP=	16.0 DEGREE (C)		

II. LINK VARIABLES

LINK DESCRIPTION	LINK COORDINATES (M) X1	Y1	X2	Y2	TYPE	VPH	EF (G/MI)	H (M)	W (M)
A. MM EBLA	-150	0	0	0	AG	10	2.2	.0	10.0
B. MM EBTA	-150	-4	0	-4	AG	573	2.2	.0	10.0
C. MM EBRA	-150	-7	0	-7	AG	90	2.2	.0	10.0
D. MM EBD	0	-4	150	-4	AG	673	2.2	.0	10.0
E. MM WBLA	150	0	0	0	AG	530	2.2	.0	10.0
F. MM WBTA	150	4	0	4	AG	2880	2.2	.0	10.0
G. MM WBRA	150	7	0	7	AG	200	2.2	.0	10.0
H. MM WBD	0	4	-150	4	AG	3110	2.2	.0	10.0
I. CSF NBLA	0	-150	0	0	AG	150	2.2	.0	10.0
J. CSF NBTA	4	-150	4	0	AG	122	2.2	.0	10.0
K. CSF NBRA	7	-150	7	0	AG	60	2.2	.0	10.0
L. CSF NBD	4	0	4	150	AG	332	2.2	.0	10.0
M. CSF SBLA	0	150	0	0	AG	40	2.2	.0	10.0
N. CSF SBTA	-4	150	-4	0	AG	320	2.2	.0	10.0
O. CSF SBRA	-7	150	-7	0	AG	80	2.2	.0	10.0
P. CSF SBD	-4	0	-4	-150	AG	940	2.2	.0	10.0

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

JOB: Camino Santa Fe and Mira Mesa am 2025B
RUN: Hour 1 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

III. RECEPTOR LOCATIONS

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

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

JOB: Camino Santa Fe and Mira Mesa am 2025B
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. Recpt 1	73.	.6	.0	.0	.0	.1	.0	.3	.0	.0
2. Recpt 2	74.	.6	.0	.0	.0	.0	.0	.3	.0	.0
3. Recpt 3	77.	.6	.0	.0	.0	.0	.0	.2	.0	.0
4. Recpt 4	66.	.5	.0	.0	.0	.0	.0	.2	.0	.0
5. Recpt 5	20.	.4	.0	.0	.0	.0	.0	.0	.0	.0
6. Recpt 6	103.	.8	.0	.0	.0	.0	.0	.5	.0	.0
7. Recpt 7	102.	.8	.0	.0	.0	.0	.0	.3	.0	.2
8. Recpt 8	101.	.8	.0	.0	.0	.0	.0	.2	.0	.3
9. Recpt 9	112.	.4	.0	.0	.0	.0	.0	.2	.0	.0
10. Recpt 10	169.	.4	.0	.0	.0	.0	.0	.0	.0	.1
11. Recpt 11	285.	.6	.0	.1	.0	.0	.0	.0	.0	.3
12. Recpt 12	285.	.6	.0	.0	.0	.0	.0	.0	.0	.3
13. Recpt 13	286.	.6	.0	.0	.0	.1	.0	.1	.0	.2
14. Recpt 14	293.	.4	.0	.0	.0	.0	.0	.0	.0	.2
15. Recpt 15	300.	.3	.0	.0	.0	.0	.0	.0	.0	.1
16. Recpt 16	195.	.6	.0	.0	.0	.0	.0	.3	.0	.0
17. Recpt 17	252.	.6	.0	.0	.0	.0	.0	.1	.0	.3
18. Recpt 18	251.	.6	.0	.0	.0	.0	.0	.3	.0	.0
19. Recpt 19	192.	.5	.0	.0	.0	.0	.0	.1	.0	.0
20. Recpt 20	190.	.4	.0	.0	.0	.0	.0	.0	.0	.0

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

JOB: Camino Santa Fe and Mira Mesa am 2025B
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. Recpt 1	.0	.0	.0	.0	.0	.0	.0	.1
2. Recpt 2	.0	.0	.0	.0	.0	.0	.0	.0
3. Recpt 3	.0	.0	.0	.0	.0	.0	.0	.0
4. Recpt 4	.0	.0	.0	.0	.0	.0	.0	.1
5. Recpt 5	.0	.0	.0	.0	.0	.0	.0	.2
6. Recpt 6	.0	.0	.0	.0	.0	.0	.0	.0
7. Recpt 7	.0	.0	.0	.0	.0	.0	.0	.0
8. Recpt 8	.0	.0	.0	.0	.0	.0	.0	.0
9. Recpt 9	.0	.0	.0	.0	.0	.0	.0	.0
10. Recpt 10	.0	.0	.0	.0	.0	.0	.0	.1
11. Recpt 11	.0	.0	.0	.0	.0	.0	.0	.0
12. Recpt 12	.0	.0	.0	.0	.0	.0	.0	.0
13. Recpt 13	.0	.0	.0	.0	.0	.0	.0	.0
14. Recpt 14	.0	.0	.0	.0	.0	.0	.0	.0
15. Recpt 15	.0	.0	.0	.0	.0	.0	.0	.0
16. Recpt 16	.0	.0	.0	.0	.0	.0	.0	.1
17. Recpt 17	.0	.0	.0	.0	.0	.0	.0	.0
18. Recpt 18	.0	.0	.0	.0	.0	.0	.0	.0
19. Recpt 19	.0	.0	.0	.0	.0	.0	.0	.1
20. Recpt 20	.0	.0	.0	.0	.0	.0	.0	.1

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

     JOB: Camino Santa Fe and Mira Mesa pm 2025B
     RUN: Hour 1           (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide
```

I. SITE VARIABLES

```
      U=    .5 M/S            Z0= 100. CM           ALT=     0. (M)
    BRG= WORST CASE           VD=   .0 CM/S
   CLAS=     7 (G)            VS=   .0 CM/S
   MIXH= 1000. M             AMB=   .0 PPM
  SIGTH=   10. DEGREES       TEMP= 16.0 DEGREE (C)
```

II. LINK VARIABLES

LINK DESCRIPTION	LINK COORDINATES (M) X1	Y1	X2	Y2	TYPE	VPH	EF (G/MI)	H (M)	W (M)
A. MM EBLA	-150	0	0	0	AG	100	2.2	.0	10.0
B. MM EBTA	-150	-4	0	-4	AG	2420	2.2	.0	10.0
C. MM EBRA	-150	-7	0	-7	AG	130	2.2	.0	10.0
D. MM EBD	0	-4	150	-4	AG	2990	2.2	.0	10.0
E. MM WBLA	150	0	0	0	AG	180	2.2	.0	10.0
F. MM WBTA	150	4	0	4	AG	544	2.2	.0	10.0
G. MM WBRA	150	7	0	7	AG	110	2.2	.0	10.0
H. MM WBD	0	4	-150	4	AG	754	2.2	.0	10.0
I. CSF NBLA	0	-150	0	0	AG	180	2.2	.0	10.0
J. CSF NBTA	4	-150	4	0	AG	322	2.2	.0	10.0
K. CSF NBRA	7	-150	7	0	AG	330	2.2	.0	10.0
L. CSF NBD	4	0	4	150	AG	532	2.2	.0	10.0
M. CSF SBLA	0	150	0	0	AG	240	2.2	.0	10.0
N. CSF SBTA	-4	150	-4	0	AG	232	2.2	.0	10.0
O. CSF SBRA	-7	150	-7	0	AG	30	2.2	.0	10.0
P. CSF SBD	-4	0	-4	-150	AG	542	2.2	.0	10.0

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

JOB: Camino Santa Fe and Mira Mesa pm 2025B
RUN: Hour 1 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

III. RECEPTOR LOCATIONS

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

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

JOB: Camino Santa Fe and Mira Mesa pm 2025B
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. Recpt 1	74.	.7	.0	.0	.0	.4	.0	.0	.0	.0
2. Recpt 2	76.	.6	.0	.0	.0	.3	.0	.0	.0	.0
3. Recpt 3	77.	.6	.0	.2	.0	.2	.0	.0	.0	.0
4. Recpt 4	66.	.4	.0	.0	.0	.2	.0	.0	.0	.0
5. Recpt 5	16.	.4	.0	.0	.0	.0	.0	.0	.0	.0
6. Recpt 6	105.	.6	.0	.0	.0	.3	.0	.1	.0	.0
7. Recpt 7	104.	.6	.0	.0	.0	.3	.0	.0	.0	.0
8. Recpt 8	103.	.6	.0	.0	.0	.2	.0	.0	.0	.1
9. Recpt 9	166.	.4	.0	.1	.0	.0	.0	.0	.0	.0
10. Recpt 10	167.	.4	.0	.0	.0	.0	.0	.0	.0	.0
11. Recpt 11	283.	.7	.0	.4	.0	.0	.0	.0	.0	.1
12. Recpt 12	283.	.7	.0	.2	.0	.2	.0	.0	.0	.1
13. Recpt 13	282.	.7	.0	.1	.0	.3	.0	.0	.0	.0
14. Recpt 14	292.	.4	.0	.2	.0	.0	.0	.0	.0	.0
15. Recpt 15	346.	.4	.0	.0	.0	.0	.0	.0	.0	.0
16. Recpt 16	191.	.6	.0	.0	.0	.2	.0	.0	.0	.0
17. Recpt 17	253.	.5	.0	.2	.0	.0	.0	.0	.0	.0
18. Recpt 18	253.	.5	.0	.2	.0	.0	.0	.0	.0	.0
19. Recpt 19	190.	.5	.0	.0	.0	.1	.0	.0	.0	.0
20. Recpt 20	190.	.4	.0	.0	.0	.0	.0	.0	.0	.0

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

JOB: Camino Santa Fe and Mira Mesa pm 2025B
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. Recpt 1	.0	.0	.0	.0	.0	.0	.0	.0
2. Recpt 2	.0	.0	.0	.0	.0	.0	.0	.0
3. Recpt 3	.0	.0	.0	.0	.0	.0	.0	.0
4. Recpt 4	.0	.0	.0	.0	.0	.0	.0	.0
5. Recpt 5	.0	.0	.0	.0	.0	.0	.0	.0
6. Recpt 6	.0	.0	.0	.0	.0	.0	.0	.0
7. Recpt 7	.0	.0	.0	.0	.0	.0	.0	.0
8. Recpt 8	.0	.0	.0	.0	.0	.0	.0	.0
9. Recpt 9	.0	.0	.0	.0	.0	.0	.0	.0
10. Recpt 10	.0	.0	.0	.0	.0	.0	.0	.0
11. Recpt 11	.0	.0	.0	.0	.0	.0	.0	.0
12. Recpt 12	.0	.0	.0	.0	.0	.0	.0	.0
13. Recpt 13	.0	.0	.0	.0	.0	.0	.0	.0
14. Recpt 14	.0	.0	.0	.0	.0	.0	.0	.0
15. Recpt 15	.0	.0	.0	.0	.0	.0	.0	.0
16. Recpt 16	.0	.0	.0	.0	.0	.0	.0	.0
17. Recpt 17	.0	.0	.0	.0	.0	.0	.0	.0
18. Recpt 18	.0	.0	.0	.0	.0	.0	.0	.0
19. Recpt 19	.0	.0	.0	.0	.0	.0	.0	.0
20. Recpt 20	.0	.0	.0	.0	.0	.0	.0	.0

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

JOB: I15 NB and Carroll Canyon 2025B am
RUN: Hour 1 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

I. SITE VARIABLES

U=	.5 M/S	Z0=	100. CM	ALT=	0. (M)
BRG=	WORST CASE	VD=	.0 CM/S		
CLAS=	7 (G)	VS=	.0 CM/S		
MIXH=	1000. M	AMB=	.0 PPM		
SIGTH=	10. DEGREES	TEMP=	16.0 DEGREE (C)		

II. LINK VARIABLES

LINK DESCRIPTION	LINK COORDINATES (M) X1	Y1	X2	Y2	TYPE	VPH	EF (G/MI)	H (M)	W (M)
A. CC WBTA	9328	599	9178	589	AG	1432	2.2	.0	10.0
B. CC WBRA	9328	602	9178	592	AG	200	2.2	.0	10.0
C. CC WBD	9178	592	9028	592	AG	2133	2.2	.0	10.0
D. CC EBLA	9028	585	9178	585	AG	431	2.2	.0	10.0
E. CC EBTA	9028	581	9178	581	AG	597	2.2	.0	10.0
F. CC EBD	9178	581	9328	591	AG	1217	2.2	.0	10.0
G. I15 NBLA	9163	433	9178	585	AG	701	2.2	.0	10.0
H. I15 NBRA	9167	433	9182	585	AG	630	2.2	.0	10.0
I. I15 NBD	9178	585	9162	736	AG	631	2.2	.0	10.0

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

JOB: I15 NB and Carroll Canyon 2025B am
RUN: Hour 1 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

III. RECEPTOR LOCATIONS

RECEPTOR	COORDINATES (M) X	Y	Z
1. Recpt 1	9168	571	1.8
2. Recpt 2	9166	551	1.8
3. Recpt 3	9164	531	1.8
4. Recpt 4	9148	571	1.8
5. Recpt 5	9128	571	1.8
6. Recpt 6	9128	602	1.8
7. Recpt 7	9148	602	1.8
8. Recpt 8	9168	602	1.8
9. Recpt 9	9165	622	1.8
10. Recpt 10	9162	642	1.8
11. Recpt 11	9190	571	1.8
12. Recpt 12	9188	551	1.8
13. Recpt 13	9186	531	1.8
14. Recpt 14	9210	573	1.8
15. Recpt 15	9230	575	1.8
16. Recpt 16	9190	602	1.8
17. Recpt 17	9188	622	1.8
18. Recpt 18	9186	642	1.8
19. Recpt 19	9210	604	1.8
20. Recpt 20	9230	606	1.8

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

JOB: I15 NB and Carroll Canyon 2025B 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. Recpt 1	72.	.6	.2	.0	.0	.0	.0	.2	.0	.0
2. Recpt 2	64.	.4	.1	.0	.0	.0	.0	.1	.0	.0
3. Recpt 3	29.	.4	.0	.0	.0	.0	.0	.0	.1	.0
4. Recpt 4	76.	.5	.2	.0	.0	.0	.0	.2	.0	.0
5. Recpt 5	78.	.5	.2	.0	.0	.0	.0	.1	.0	.0
6. Recpt 6	107.	.6	.0	.0	.3	.0	.0	.1	.0	.0
7. Recpt 7	115.	.6	.0	.0	.3	.0	.0	.1	.0	.0
8. Recpt 8	150.	.6	.0	.0	.2	.0	.0	.0	.0	.0
9. Recpt 9	170.	.4	.0	.0	.1	.0	.0	.0	.0	.0
10. Recpt 10	169.	.3	.0	.0	.0	.0	.0	.0	.0	.0
11. Recpt 11	287.	.6	.0	.0	.2	.0	.1	.0	.0	.0
12. Recpt 12	344.	.4	.0	.0	.0	.0	.0	.0	.0	.0
13. Recpt 13	348.	.4	.0	.0	.0	.0	.0	.0	.0	.1
14. Recpt 14	285.	.6	.0	.0	.2	.0	.0	.1	.0	.0
15. Recpt 15	281.	.6	.0	.0	.2	.0	.0	.2	.0	.0
16. Recpt 16	257.	.6	.0	.0	.4	.0	.0	.0	.0	.0
17. Recpt 17	190.	.4	.0	.0	.0	.0	.0	.0	.1	.1
18. Recpt 18	187.	.4	.0	.0	.0	.0	.0	.0	.0	.0
19. Recpt 19	258.	.5	.0	.0	.3	.0	.0	.0	.0	.0
20. Recpt 20	256.	.4	.0	.0	.2	.0	.0	.0	.0	.0

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

     JOB: I15 NB and Carroll Canyon 2025B am
     RUN: Hour 1           (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide
```

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

RECEPTOR	(PPM) I
1. Recpt 1	.0
2. Recpt 2	.0
3. Recpt 3	.0
4. Recpt 4	.0
5. Recpt 5	.0
6. Recpt 6	.0
7. Recpt 7	.0
8. Recpt 8	.0
9. Recpt 9	.0
10. Recpt 10	.0
11. Recpt 11	.0
12. Recpt 12	.0
13. Recpt 13	.0
14. Recpt 14	.0
15. Recpt 15	.0
16. Recpt 16	.0
17. Recpt 17	.0
18. Recpt 18	.0
19. Recpt 19	.0
20. Recpt 20	.0

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

JOB: I15 NB and Carroll Canyon 2025A pm
RUN: Hour 1 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

I. SITE VARIABLES

U=	.5 M/S	Z0=	100. CM	ALT=	0. (M)
BRG=	WORST CASE	VD=	.0 CM/S		
CLAS=	7 (G)	VS=	.0 CM/S		
MIXH=	1000. M	AMB=	.0 PPM		
SIGTH=	10. DEGREES	TEMP=	16.0 DEGREE (C)		

II. LINK VARIABLES

LINK DESCRIPTION	LINK COORDINATES (M) X1	Y1	X2	Y2	TYPE	VPH	EF (G/MI)	H (M)	W (M)
A. CC WBTA	9328	599	9178	589	AG	970	2.2	.0	10.0
B. CC WBRA	9328	602	9178	592	AG	240	2.2	.0	10.0
C. CC WBD	9178	592	9028	592	AG	1860	2.2	.0	10.0
D. CC EBLA	9028	585	9178	585	AG	506	2.2	.0	10.0
E. CC EBTA	9028	581	9178	581	AG	724	2.2	.0	10.0
F. CC EBD	9178	581	9328	591	AG	1204	2.2	.0	10.0
G. I15 NBLA	9163	433	9178	585	AG	890	2.2	.0	10.0
H. I15 NBRA	9167	433	9182	585	AG	490	2.2	.0	10.0
I. I15 NBD	9178	585	9162	736	AG	746	2.2	.0	10.0

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

JOB: I15 NB and Carroll Canyon 2025A pm
RUN: Hour 1 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

III. RECEPTOR LOCATIONS

RECEPTOR	COORDINATES (M) X	Y	Z
1. Recpt 1	9168	571	1.8
2. Recpt 2	9166	551	1.8
3. Recpt 3	9164	531	1.8
4. Recpt 4	9148	571	1.8
5. Recpt 5	9128	571	1.8
6. Recpt 6	9128	602	1.8
7. Recpt 7	9148	602	1.8
8. Recpt 8	9168	602	1.8
9. Recpt 9	9165	622	1.8
10. Recpt 10	9162	642	1.8
11. Recpt 11	9190	571	1.8
12. Recpt 12	9188	551	1.8
13. Recpt 13	9186	531	1.8
14. Recpt 14	9210	573	1.8
15. Recpt 15	9230	575	1.8
16. Recpt 16	9190	602	1.8
17. Recpt 17	9188	622	1.8
18. Recpt 18	9186	642	1.8
19. Recpt 19	9210	604	1.8
20. Recpt 20	9230	606	1.8

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

JOB: I15 NB and Carroll Canyon 2025A 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. Recpt 1	72.	.6	.1	.0	.0	.0	.0	.2	.1	.0
2. Recpt 2	35.	.4	.0	.0	.0	.0	.0	.0	.2	.0
3. Recpt 3	28.	.4	.0	.0	.0	.0	.0	.0	.2	.0
4. Recpt 4	76.	.5	.1	.0	.0	.0	.0	.2	.0	.0
5. Recpt 5	77.	.5	.1	.0	.0	.0	.0	.1	.0	.0
6. Recpt 6	110.	.6	.0	.0	.3	.0	.0	.0	.0	.0
7. Recpt 7	117.	.5	.0	.0	.3	.0	.0	.0	.0	.0
8. Recpt 8	172.	.6	.0	.0	.2	.0	.0	.0	.2	.0
9. Recpt 9	170.	.4	.0	.0	.1	.0	.0	.0	.1	.0
10. Recpt 10	169.	.3	.0	.0	.0	.0	.0	.0	.0	.0
11. Recpt 11	287.	.6	.0	.0	.2	.0	.1	.0	.0	.0
12. Recpt 12	344.	.4	.0	.0	.0	.0	.0	.0	.0	.0
13. Recpt 13	348.	.4	.0	.0	.0	.0	.0	.0	.1	.0
14. Recpt 14	283.	.6	.0	.0	.2	.0	.0	.1	.0	.0
15. Recpt 15	280.	.6	.0	.0	.2	.0	.0	.2	.0	.0
16. Recpt 16	257.	.6	.0	.0	.3	.0	.0	.0	.0	.0
17. Recpt 17	191.	.4	.0	.0	.0	.0	.0	.0	.1	.0
18. Recpt 18	188.	.4	.0	.0	.0	.0	.0	.0	.1	.0
19. Recpt 19	258.	.5	.0	.0	.2	.0	.0	.0	.0	.0
20. Recpt 20	257.	.4	.0	.0	.2	.0	.0	.0	.0	.0

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

     JOB: I15 NB and Carroll Canyon 2025A pm
     RUN: Hour 1           (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide
```

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

RECEPTOR	(PPM) I
1. Recpt 1	.0
2. Recpt 2	.0
3. Recpt 3	.0
4. Recpt 4	.0
5. Recpt 5	.0
6. Recpt 6	.0
7. Recpt 7	.0
8. Recpt 8	.0
9. Recpt 9	.0
10. Recpt 10	.0
11. Recpt 11	.0
12. Recpt 12	.1
13. Recpt 13	.0
14. Recpt 14	.0
15. Recpt 15	.0
16. Recpt 16	.0
17. Recpt 17	.0
18. Recpt 18	.0
19. Recpt 19	.0
20. Recpt 20	.0

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

JOB: I15 SB and Carroll Canyon 2025B am
RUN: Hour 1 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

I. SITE VARIABLES

U=	.5 M/S	Z0=	100. CM	ALT=	0. (M)
BRG=	WORST CASE	VD=	.0 CM/S		
CLAS=	7 (G)	VS=	.0 CM/S		
MIXH=	1000. M	AMB=	.0 PPM		
SIGTH=	10. DEGREES	TEMP=	16.0 DEGREE (C)		

II. LINK VARIABLES

LINK DESCRIPTION	*	LINK COORDINATES (M) X1	Y1	X2	Y2	* TYPE	VPH	EF (G/MI)	H (M)	W (M)
A. CC EBTA	*	8900	576	9050	581	* AG	708	2.2	.0	10.0
B. CC EBRA	*	8900	573	9050	578	* AG	771	2.2	.0	10.0
C. CC EBD	*	9050	581	9200	581	* AG	1028	2.2	.0	10.0
D. CC WBLA	*	9200	585	9050	585	* AG	780	2.2	.0	10.0
E. CC WBTA	*	9200	589	9050	589	* AG	1353	2.2	.0	10.0
F. CC WBD	*	9050	589	8900	584	* AG	2015	2.2	.0	10.0
G. I15 SBLA	*	9071	738	9050	585	* AG	320	2.2	.0	10.0
H. I15 SBRA	*	9067	738	9046	585	* AG	672	2.2	.0	10.0
I. I15 SBD	*	9050	585	9065	433	* AG	1561	2.2	.0	10.0

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

JOB: I15 SB and Carroll Canyon 2025B am
RUN: Hour 1 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

III. RECEPTOR LOCATIONS

RECEPTOR	COORDINATES (M) X	Y	Z
1. Recpt 1	9040	570	1.8
2. Recpt 2	9020	568	1.8
3. Recpt 3	9000	566	1.8
4. Recpt 4	9042	550	1.8
5. Recpt 5	9044	530	1.8
6. Recpt 6	9040	600	1.8
7. Recpt 7	9020	599	1.8
8. Recpt 8	9000	598	1.8
9. Recpt 9	9043	620	1.8
10. Recpt 10	9046	640	1.8
11. Recpt 11	9060	600	1.8
12. Recpt 12	9063	620	1.8
13. Recpt 13	9066	640	1.8
14. Recpt 14	9080	600	1.8
15. Recpt 15	9100	600	1.8
16. Recpt 16	9060	570	1.8
17. Recpt 17	9062	550	1.8
18. Recpt 18	9064	530	1.8
19. Recpt 19	9080	570	1.8
20. Recpt 20	9100	570	1.8

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

JOB: I15 SB and Carroll Canyon 2025B 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. Recpt 1	74.	.7	.0	.0	.2	.1	.2	.0	.0	.0
2. Recpt 2	73.	.6	.0	.0	.1	.1	.2	.0	.0	.0
3. Recpt 3	75.	.6	.0	.1	.0	.0	.1	.0	.0	.0
4. Recpt 4	11.	.5	.0	.0	.0	.0	.0	.0	.0	.1
5. Recpt 5	9.	.5	.0	.0	.0	.0	.0	.0	.0	.0
6. Recpt 6	164.	.7	.0	.0	.0	.0	.0	.2	.0	.0
7. Recpt 7	103.	.6	.0	.0	.1	.1	.2	.0	.0	.0
8. Recpt 8	101.	.6	.0	.0	.1	.0	.1	.2	.0	.0
9. Recpt 9	171.	.6	.0	.0	.0	.0	.0	.0	.0	.1
10. Recpt 10	174.	.5	.0	.0	.0	.0	.0	.0	.0	.1
11. Recpt 11	253.	.7	.0	.0	.0	.0	.0	.3	.0	.0
12. Recpt 12	245.	.4	.0	.0	.0	.0	.0	.2	.0	.0
13. Recpt 13	210.	.3	.0	.0	.0	.0	.0	.0	.0	.1
14. Recpt 14	255.	.6	.1	.0	.0	.0	.0	.3	.0	.0
15. Recpt 15	256.	.6	.0	.0	.0	.0	.1	.2	.0	.0
16. Recpt 16	282.	.7	.1	.2	.0	.0	.0	.2	.0	.0
17. Recpt 17	331.	.5	.0	.0	.0	.0	.0	.0	.0	.0
18. Recpt 18	337.	.5	.0	.0	.0	.0	.0	.0	.0	.0
19. Recpt 19	281.	.6	.1	.1	.0	.0	.0	.2	.0	.0
20. Recpt 20	281.	.5	.0	.0	.0	.0	.0	.2	.0	.0

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

     JOB: I15 SB and Carroll Canyon 2025B am
     RUN: Hour 1           (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide
```

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

RECEPTOR	(PPM) I
1. Recpt 1	.2
2. Recpt 2	.0
3. Recpt 3	.0
4. Recpt 4	.1
5. Recpt 5	.2
6. Recpt 6	.3
7. Recpt 7	.0
8. Recpt 8	.0
9. Recpt 9	.2
10. Recpt 10	.2
11. Recpt 11	.0
12. Recpt 12	.0
13. Recpt 13	.0
14. Recpt 14	.0
15. Recpt 15	.0
16. Recpt 16	.2
17. Recpt 17	.3
18. Recpt 18	.3
19. Recpt 19	.1
20. Recpt 20	.0

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

     JOB: I15 SB and Carroll Canyon 2025B pm
     RUN: Hour 1           (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide
```

I. SITE VARIABLES

```
      U=    .5 M/S            Z0= 100. CM           ALT=     0. (M)
    BRG= WORST CASE           VD=   .0 CM/S
   CLAS=     7 (G)            VS=   .0 CM/S
   MIXH= 1000. M             AMB=   .0 PPM
  SIGTH=   10. DEGREES       TEMP= 16.0 DEGREE (C)
```

II. LINK VARIABLES

LINK DESCRIPTION	LINK COORDINATES (M) X1	Y1	X2	Y2	TYPE	VPH	EF (G/MI)	H (M)	W (M)
A. CC EBTA	8900	576	9050	581	AG	1070	2.2	.0	10.0
B. CC EBRA	8900	573	9050	578	AG	515	2.2	.0	10.0
C. CC EBD	9050	581	9200	581	AG	1230	2.2	.0	10.0
D. CC WBLA	9200	585	9050	585	AG	690	2.2	.0	10.0
E. CC WBTA	9200	589	9050	589	AG	1170	2.2	.0	10.0
F. CC WBD	9050	589	8900	584	AG	1520	2.2	.0	10.0
G. I15 SBLA	9071	738	9050	585	AG	160	2.2	.0	10.0
H. I15 SBRA	9067	738	9046	585	AG	360	2.2	.0	10.0
I. I15 SBD	9050	585	9065	433	AG	1215	2.2	.0	10.0

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

JOB: I15 SB and Carroll Canyon 2025B pm
RUN: Hour 1 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

III. RECEPTOR LOCATIONS

RECEPTOR	COORDINATES (M) X	Y	Z
1. Recpt 1	9040	570	1.8
2. Recpt 2	9020	568	1.8
3. Recpt 3	9000	566	1.8
4. Recpt 4	9042	550	1.8
5. Recpt 5	9044	530	1.8
6. Recpt 6	9040	600	1.8
7. Recpt 7	9020	599	1.8
8. Recpt 8	9000	598	1.8
9. Recpt 9	9043	620	1.8
10. Recpt 10	9046	640	1.8
11. Recpt 11	9060	600	1.8
12. Recpt 12	9063	620	1.8
13. Recpt 13	9066	640	1.8
14. Recpt 14	9080	600	1.8
15. Recpt 15	9100	600	1.8
16. Recpt 16	9060	570	1.8
17. Recpt 17	9062	550	1.8
18. Recpt 18	9064	530	1.8
19. Recpt 19	9080	570	1.8
20. Recpt 20	9100	570	1.8

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

JOB: I15 SB and Carroll Canyon 2025B 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. Recpt 1	74.	.6	.0	.0	.2	.1	.2	.0	.0	.0
2. Recpt 2	74.	.6	.0	.0	.2	.0	.1	.0	.0	.0
3. Recpt 3	76.	.5	.0	.0	.1	.0	.1	.0	.0	.0
4. Recpt 4	67.	.4	.0	.0	.1	.0	.0	.0	.0	.0
5. Recpt 5	10.	.4	.0	.0	.0	.0	.0	.0	.0	.0
6. Recpt 6	165.	.6	.0	.0	.0	.0	.0	.2	.0	.0
7. Recpt 7	103.	.6	.0	.0	.2	.1	.2	.0	.0	.0
8. Recpt 8	101.	.6	.0	.0	.1	.0	.1	.2	.0	.0
9. Recpt 9	171.	.5	.0	.0	.0	.0	.0	.0	.0	.0
10. Recpt 10	174.	.4	.0	.0	.0	.0	.0	.0	.0	.0
11. Recpt 11	253.	.5	.1	.0	.0	.0	.0	.3	.0	.0
12. Recpt 12	189.	.4	.0	.0	.0	.0	.0	.0	.0	.0
13. Recpt 13	189.	.3	.0	.0	.0	.0	.0	.0	.0	.0
14. Recpt 14	255.	.5	.1	.0	.0	.0	.0	.2	.0	.0
15. Recpt 15	254.	.6	.1	.0	.0	.0	.1	.0	.0	.0
16. Recpt 16	282.	.7	.2	.1	.0	.0	.0	.2	.0	.0
17. Recpt 17	291.	.4	.0	.0	.0	.0	.0	.1	.0	.0
18. Recpt 18	336.	.4	.0	.0	.0	.0	.0	.0	.0	.0
19. Recpt 19	281.	.5	.2	.0	.0	.0	.0	.2	.0	.0
20. Recpt 20	281.	.5	.1	.0	.1	.0	.0	.2	.0	.0

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

     JOB: I15 SB and Carroll Canyon 2025B pm
     RUN: Hour 1           (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide
```

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

RECEPTOR	(PPM) I
1. Recpt 1	.1
2. Recpt 2	.0
3. Recpt 3	.0
4. Recpt 4	.1
5. Recpt 5	.2
6. Recpt 6	.3
7. Recpt 7	.0
8. Recpt 8	.0
9. Recpt 9	.2
10. Recpt 10	.1
11. Recpt 11	.0
12. Recpt 12	.2
13. Recpt 13	.1
14. Recpt 14	.0
15. Recpt 15	.0
16. Recpt 16	.2
17. Recpt 17	.2
18. Recpt 18	.2
19. Recpt 19	.0
20. Recpt 20	.0

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

JOB: Camino Santa Fe and Mira Mesa am 2030A
RUN: Hour 1 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

I. SITE VARIABLES

U=	.5 M/S	Z0=	100. CM	ALT=	0. (M)
BRG=	WORST CASE	VD=	.0 CM/S		
CLAS=	7 (G)	VS=	.0 CM/S		
MIXH=	1000. M	AMB=	.0 PPM		
SIGTH=	10. DEGREES	TEMP=	16.0 DEGREE (C)		

II. LINK VARIABLES

LINK DESCRIPTION	LINK COORDINATES (M) X1	Y1	X2	Y2	TYPE	VPH	EF (G/MI)	H (M)	W (M)
A. MM EBLA	-150	0	0	0	AG	20	1.8	.0	10.0
B. MM EBTA	-150	-4	0	-4	AG	582	1.8	.0	10.0
C. MM EBRA	-150	-7	0	-7	AG	100	1.8	.0	10.0
D. MM EBD	0	-4	150	-4	AG	702	1.8	.0	10.0
E. MM WBLA	150	0	0	0	AG	600	1.8	.0	10.0
F. MM WBTA	150	4	0	4	AG	2901	1.8	.0	10.0
G. MM WBRA	150	7	0	7	AG	210	1.8	.0	10.0
H. MM WBD	0	4	-150	4	AG	3151	1.8	.0	10.0
I. CSF NBLA	0	-150	0	0	AG	170	1.8	.0	10.0
J. CSF NBTA	4	-150	4	0	AG	141	1.8	.0	10.0
K. CSF NBRA	7	-150	7	0	AG	70	1.8	.0	10.0
L. CSF NBD	4	0	4	150	AG	371	1.8	.0	10.0
M. CSF SBLA	0	150	0	0	AG	50	1.8	.0	10.0
N. CSF SBTA	-4	150	-4	0	AG	373	1.8	.0	10.0
O. CSF SBRA	-7	150	-7	0	AG	80	1.8	.0	10.0
P. CSF SBD	-4	0	-4	-150	AG	1073	1.8	.0	10.0

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

JOB: Camino Santa Fe and Mira Mesa am 2030A
RUN: Hour 1 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

III. RECEPTOR LOCATIONS

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

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

JOB: Camino Santa Fe and Mira Mesa am 2030A
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. Recpt 1	73.	.6	.0	.0	.0	.0	.0	.2	.0	.0
2. Recpt 2	74.	.5	.0	.0	.0	.0	.0	.2	.0	.0
3. Recpt 3	77.	.5	.0	.0	.0	.0	.0	.2	.0	.0
4. Recpt 4	66.	.4	.0	.0	.0	.0	.0	.1	.0	.0
5. Recpt 5	20.	.4	.0	.0	.0	.0	.0	.0	.0	.0
6. Recpt 6	103.	.7	.0	.0	.0	.0	.0	.4	.0	.0
7. Recpt 7	102.	.7	.0	.0	.0	.0	.0	.2	.0	.2
8. Recpt 8	101.	.6	.0	.0	.0	.0	.0	.2	.0	.3
9. Recpt 9	167.	.4	.0	.0	.0	.0	.0	.0	.0	.1
10. Recpt 10	169.	.3	.0	.0	.0	.0	.0	.0	.0	.0
11. Recpt 11	285.	.5	.0	.0	.0	.0	.0	.0	.0	.3
12. Recpt 12	285.	.5	.0	.0	.0	.0	.0	.0	.0	.3
13. Recpt 13	286.	.5	.0	.0	.0	.0	.0	.1	.0	.2
14. Recpt 14	293.	.3	.0	.0	.0	.0	.0	.0	.0	.2
15. Recpt 15	346.	.3	.0	.0	.0	.0	.0	.0	.0	.0
16. Recpt 16	195.	.5	.0	.0	.0	.0	.0	.2	.0	.0
17. Recpt 17	251.	.5	.0	.0	.0	.0	.0	.1	.0	.2
18. Recpt 18	251.	.5	.0	.0	.0	.0	.0	.2	.0	.0
19. Recpt 19	192.	.4	.0	.0	.0	.0	.0	.1	.0	.0
20. Recpt 20	190.	.3	.0	.0	.0	.0	.0	.0	.0	.0

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

JOB: Camino Santa Fe and Mira Mesa am 2030A
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. Recpt 1	.0	.0	.0	.0	.0	.0	.0	.1
2. Recpt 2	.0	.0	.0	.0	.0	.0	.0	.0
3. Recpt 3	.0	.0	.0	.0	.0	.0	.0	.0
4. Recpt 4	.0	.0	.0	.0	.0	.0	.0	.1
5. Recpt 5	.0	.0	.0	.0	.0	.0	.0	.2
6. Recpt 6	.0	.0	.0	.0	.0	.0	.0	.0
7. Recpt 7	.0	.0	.0	.0	.0	.0	.0	.0
8. Recpt 8	.0	.0	.0	.0	.0	.0	.0	.0
9. Recpt 9	.0	.0	.0	.0	.0	.0	.0	.1
10. Recpt 10	.0	.0	.0	.0	.0	.0	.0	.0
11. Recpt 11	.0	.0	.0	.0	.0	.0	.0	.0
12. Recpt 12	.0	.0	.0	.0	.0	.0	.0	.0
13. Recpt 13	.0	.0	.0	.0	.0	.0	.0	.0
14. Recpt 14	.0	.0	.0	.0	.0	.0	.0	.0
15. Recpt 15	.0	.0	.0	.0	.0	.0	.0	.0
16. Recpt 16	.0	.0	.0	.0	.0	.0	.0	.1
17. Recpt 17	.0	.0	.0	.0	.0	.0	.0	.0
18. Recpt 18	.0	.0	.0	.0	.0	.0	.0	.0
19. Recpt 19	.0	.0	.0	.0	.0	.0	.0	.1
20. Recpt 20	.0	.0	.0	.0	.0	.0	.0	.0

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

JOB: Camino Santa Fe and Mira Mesa pm 2030A
RUN: Hour 1 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

I. SITE VARIABLES

U=	.5 M/S	Z0=	100. CM	ALT=	0. (M)
BRG=	WORST CASE	VD=	.0 CM/S		
CLAS=	7 (G)	VS=	.0 CM/S		
MIXH=	1000. M	AMB=	.0 PPM		
SIGTH=	10. DEGREES	TEMP=	16.0 DEGREE (C)		

II. LINK VARIABLES

LINK DESCRIPTION	LINK COORDINATES (M) X1	Y1	X2	Y2	TYPE	VPH	EF (G/MI)	H (M)	W (M)
A. MM EBLA	-150	0	0	0	AG	110	1.8	.0	10.0
B. MM EBTA	-150	-4	0	-4	AG	2453	1.8	.0	10.0
C. MM EBRA	-150	-7	0	-7	AG	150	1.8	.0	10.0
D. MM EBD	0	-4	150	-4	AG	3093	1.8	.0	10.0
E. MM WBLA	150	0	0	0	AG	210	1.8	.0	10.0
F. MM WBTA	150	4	0	4	AG	555	1.8	.0	10.0
G. MM WBRA	150	7	0	7	AG	120	1.8	.0	10.0
H. MM WBD	0	4	-150	4	AG	775	1.8	.0	10.0
I. CSF NBLA	0	-150	0	0	AG	190	1.8	.0	10.0
J. CSF NBTA	4	-150	4	0	AG	365	1.8	.0	10.0
K. CSF NBRA	7	-150	7	0	AG	390	1.8	.0	10.0
L. CSF NBD	4	0	4	150	AG	595	1.8	.0	10.0
M. CSF SBLA	0	150	0	0	AG	250	1.8	.0	10.0
N. CSF SBTA	-4	150	-4	0	AG	262	1.8	.0	10.0
O. CSF SBRA	-7	150	-7	0	AG	30	1.8	.0	10.0
P. CSF SBD	-4	0	-4	-150	AG	622	1.8	.0	10.0

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

JOB: Camino Santa Fe and Mira Mesa pm 2030A
RUN: Hour 1 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

III. RECEPTOR LOCATIONS

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

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

JOB: Camino Santa Fe and Mira Mesa pm 2030A
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. Recpt 1	74.	.6	.0	.0	.0	.3	.0	.0	.0	.0
2. Recpt 2	76.	.5	.0	.0	.0	.3	.0	.0	.0	.0
3. Recpt 3	77.	.5	.0	.1	.0	.2	.0	.0	.0	.0
4. Recpt 4	66.	.4	.0	.0	.0	.2	.0	.0	.0	.0
5. Recpt 5	16.	.3	.0	.0	.0	.0	.0	.0	.0	.0
6. Recpt 6	105.	.5	.0	.0	.0	.3	.0	.0	.0	.0
7. Recpt 7	104.	.5	.0	.0	.0	.3	.0	.0	.0	.0
8. Recpt 8	103.	.5	.0	.0	.0	.2	.0	.0	.0	.0
9. Recpt 9	166.	.4	.0	.0	.0	.0	.0	.0	.0	.0
10. Recpt 10	167.	.3	.0	.0	.0	.0	.0	.0	.0	.0
11. Recpt 11	283.	.6	.0	.3	.0	.0	.0	.0	.0	.0
12. Recpt 12	283.	.6	.0	.2	.0	.2	.0	.0	.0	.0
13. Recpt 13	282.	.6	.0	.1	.0	.3	.0	.0	.0	.0
14. Recpt 14	292.	.4	.0	.2	.0	.0	.0	.0	.0	.0
15. Recpt 15	345.	.3	.0	.0	.0	.0	.0	.0	.0	.0
16. Recpt 16	191.	.5	.0	.0	.0	.2	.0	.0	.0	.0
17. Recpt 17	253.	.4	.0	.2	.0	.0	.0	.0	.0	.0
18. Recpt 18	252.	.4	.0	.1	.0	.0	.0	.0	.0	.0
19. Recpt 19	190.	.4	.0	.0	.0	.1	.0	.0	.0	.0
20. Recpt 20	190.	.4	.0	.0	.0	.0	.0	.0	.0	.0

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

JOB: Camino Santa Fe and Mira Mesa pm 2030A
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. Recpt 1	.0	.0	.0	.0	.0	.0	.0	.0
2. Recpt 2	.0	.0	.0	.0	.0	.0	.0	.0
3. Recpt 3	.0	.0	.0	.0	.0	.0	.0	.0
4. Recpt 4	.0	.0	.0	.0	.0	.0	.0	.0
5. Recpt 5	.0	.0	.0	.0	.0	.0	.0	.0
6. Recpt 6	.0	.0	.0	.0	.0	.0	.0	.0
7. Recpt 7	.0	.0	.0	.0	.0	.0	.0	.0
8. Recpt 8	.0	.0	.0	.0	.0	.0	.0	.0
9. Recpt 9	.0	.0	.0	.0	.0	.0	.0	.0
10. Recpt 10	.0	.0	.0	.0	.0	.0	.0	.0
11. Recpt 11	.0	.0	.0	.0	.0	.0	.0	.0
12. Recpt 12	.0	.0	.0	.0	.0	.0	.0	.0
13. Recpt 13	.0	.0	.0	.0	.0	.0	.0	.0
14. Recpt 14	.0	.0	.0	.0	.0	.0	.0	.0
15. Recpt 15	.0	.0	.0	.0	.0	.0	.0	.0
16. Recpt 16	.0	.0	.0	.0	.0	.0	.0	.0
17. Recpt 17	.0	.0	.0	.0	.0	.0	.0	.0
18. Recpt 18	.0	.0	.0	.0	.0	.0	.0	.0
19. Recpt 19	.0	.0	.0	.0	.0	.0	.0	.0
20. Recpt 20	.0	.0	.0	.0	.0	.0	.0	.0

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

JOB: I15 NB and Carroll Canyon 2030A am
RUN: Hour 1 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

I. SITE VARIABLES

U=	.5 M/S	Z0=	100. CM	ALT=	0. (M)
BRG=	WORST CASE	VD=	.0 CM/S		
CLAS=	7 (G)	VS=	.0 CM/S		
MIXH=	1000. M	AMB=	.0 PPM		
SIGTH=	10. DEGREES	TEMP=	16.0 DEGREE (C)		

II. LINK VARIABLES

LINK DESCRIPTION	*	LINK COORDINATES (M) X1	Y1	X2	Y2	* TYPE	VPH	EF (G/MI)	H (M)	W (M)
A. CC WBTA	*	9328	599	9178	589	* AG	1502	1.8	.0	10.0
B. CC WBRA	*	9328	602	9178	592	* AG	210	1.8	.0	10.0
C. CC WBD	*	9178	592	9028	592	* AG	2495	1.8	.0	10.0
D. CC EBLA	*	9028	585	9178	585	* AG	462	1.8	.0	10.0
E. CC EBTA	*	9028	581	9178	581	* AG	610	1.8	.0	10.0
F. CC EBD	*	9178	581	9328	591	* AG	1280	1.8	.0	10.0
G. I15 NBLA	*	9163	433	9178	585	* AG	795	1.8	.0	10.0
H. I15 NBRA	*	9167	433	9182	585	* AG	690	1.8	.0	10.0
I. I15 NBD	*	9178	585	9162	736	* AG	692	1.8	.0	10.0

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

JOB: I15 NB and Carroll Canyon 2030A am
RUN: Hour 1 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

III. RECEPTOR LOCATIONS

RECEPTOR	COORDINATES (M) X	Y	Z
1. Recpt 1	9168	571	1.8
2. Recpt 2	9166	551	1.8
3. Recpt 3	9164	531	1.8
4. Recpt 4	9148	571	1.8
5. Recpt 5	9128	571	1.8
6. Recpt 6	9128	602	1.8
7. Recpt 7	9148	602	1.8
8. Recpt 8	9168	602	1.8
9. Recpt 9	9165	622	1.8
10. Recpt 10	9162	642	1.8
11. Recpt 11	9190	571	1.8
12. Recpt 12	9188	551	1.8
13. Recpt 13	9186	531	1.8
14. Recpt 14	9210	573	1.8
15. Recpt 15	9230	575	1.8
16. Recpt 16	9190	602	1.8
17. Recpt 17	9188	622	1.8
18. Recpt 18	9186	642	1.8
19. Recpt 19	9210	604	1.8
20. Recpt 20	9230	606	1.8

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

JOB: I15 NB and Carroll Canyon 2030A 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. Recpt 1	72.	.5	.2	.0	.0	.0	.0	.2	.0	.0
2. Recpt 2	64.	.4	.0	.0	.0	.0	.0	.0	.0	.0
3. Recpt 3	29.	.3	.0	.0	.0	.0	.0	.0	.1	.0
4. Recpt 4	76.	.5	.2	.0	.0	.0	.0	.2	.0	.0
5. Recpt 5	78.	.4	.1	.0	.0	.0	.0	.1	.0	.0
6. Recpt 6	108.	.5	.0	.0	.3	.0	.0	.0	.0	.0
7. Recpt 7	115.	.5	.0	.0	.3	.0	.0	.0	.0	.0
8. Recpt 8	150.	.5	.0	.0	.2	.0	.0	.0	.0	.0
9. Recpt 9	170.	.4	.0	.0	.1	.0	.0	.0	.0	.0
10. Recpt 10	169.	.3	.0	.0	.0	.0	.0	.0	.0	.0
11. Recpt 11	287.	.5	.0	.0	.2	.0	.0	.0	.0	.0
12. Recpt 12	344.	.4	.0	.0	.0	.0	.0	.0	.0	.0
13. Recpt 13	348.	.4	.0	.0	.0	.0	.0	.0	.0	.1
14. Recpt 14	286.	.5	.0	.0	.2	.0	.0	.1	.0	.0
15. Recpt 15	281.	.5	.0	.0	.2	.0	.0	.2	.0	.0
16. Recpt 16	257.	.5	.0	.0	.4	.0	.0	.0	.0	.0
17. Recpt 17	190.	.4	.0	.0	.0	.0	.0	.0	.1	.0
18. Recpt 18	187.	.3	.0	.0	.0	.0	.0	.0	.0	.0
19. Recpt 19	258.	.4	.0	.0	.2	.0	.0	.0	.0	.0
20. Recpt 20	257.	.4	.0	.0	.2	.0	.0	.0	.0	.0

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

     JOB: I15 NB and Carroll Canyon 2030A am
     RUN: Hour 1           (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide
```

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

RECEPTOR	(PPM) I
1. Recpt 1	.0
2. Recpt 2	.0
3. Recpt 3	.0
4. Recpt 4	.0
5. Recpt 5	.0
6. Recpt 6	.0
7. Recpt 7	.0
8. Recpt 8	.0
9. Recpt 9	.0
10. Recpt 10	.0
11. Recpt 11	.0
12. Recpt 12	.0
13. Recpt 13	.0
14. Recpt 14	.0
15. Recpt 15	.0
16. Recpt 16	.0
17. Recpt 17	.0
18. Recpt 18	.0
19. Recpt 19	.0
20. Recpt 20	.0

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

JOB: I15 NB and Carroll Canyon 2030A pm
RUN: Hour 1 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

I. SITE VARIABLES

U=	.5 M/S	Z0=	100. CM	ALT=	0. (M)
BRG=	WORST CASE	VD=	.0 CM/S		
CLAS=	7 (G)	VS=	.0 CM/S		
MIXH=	1000. M	AMB=	.0 PPM		
SIGTH=	10. DEGREES	TEMP=	16.0 DEGREE (C)		

II. LINK VARIABLES

LINK DESCRIPTION	*	LINK COORDINATES (M) X1	Y1	X2	Y2	*	TYPE	VPH	EF (G/MI)	H (M)	W (M)
A. CC WBTA	*	9328	599	9178	589	*	AG	1007	1.8	.0	10.0
B. CC WBRA	*	9328	602	9178	592	*	AG	250	1.8	.0	10.0
C. CC WBD	*	9178	592	9028	592	*	AG	2000	1.8	.0	10.0
D. CC EBLA	*	9028	585	9178	585	*	AG	554	1.8	.0	10.0
E. CC EBTA	*	9028	581	9178	581	*	AG	747	1.8	.0	10.0
F. CC EBD	*	9178	581	9328	591	*	AG	1267	1.8	.0	10.0
G. I15 NBLA	*	9163	433	9178	585	*	AG	993	1.8	.0	10.0
H. I15 NBRA	*	9167	433	9182	585	*	AG	540	1.8	.0	10.0
I. I15 NBD	*	9178	585	9162	736	*	AG	824	1.8	.0	10.0

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

JOB: I15 NB and Carroll Canyon 2030A pm
RUN: Hour 1 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

III. RECEPTOR LOCATIONS

RECEPTOR	COORDINATES (M) X	Y	Z
1. Recpt 1	9168	571	1.8
2. Recpt 2	9166	551	1.8
3. Recpt 3	9164	531	1.8
4. Recpt 4	9148	571	1.8
5. Recpt 5	9128	571	1.8
6. Recpt 6	9128	602	1.8
7. Recpt 7	9148	602	1.8
8. Recpt 8	9168	602	1.8
9. Recpt 9	9165	622	1.8
10. Recpt 10	9162	642	1.8
11. Recpt 11	9190	571	1.8
12. Recpt 12	9188	551	1.8
13. Recpt 13	9186	531	1.8
14. Recpt 14	9210	573	1.8
15. Recpt 15	9230	575	1.8
16. Recpt 16	9190	602	1.8
17. Recpt 17	9188	622	1.8
18. Recpt 18	9186	642	1.8
19. Recpt 19	9210	604	1.8
20. Recpt 20	9230	606	1.8

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

JOB: I15 NB and Carroll Canyon 2030A 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. Recpt 1	72.	.5	.1	.0	.0	.0	.0	.2	.1	.0
2. Recpt 2	35.	.4	.0	.0	.0	.0	.0	.0	.1	.0
3. Recpt 3	28.	.3	.0	.0	.0	.0	.0	.0	.2	.0
4. Recpt 4	76.	.4	.1	.0	.0	.0	.0	.2	.0	.0
5. Recpt 5	77.	.4	.1	.0	.0	.0	.0	.1	.0	.0
6. Recpt 6	110.	.5	.0	.0	.3	.0	.0	.0	.0	.0
7. Recpt 7	117.	.5	.0	.0	.2	.0	.0	.0	.0	.0
8. Recpt 8	172.	.5	.0	.0	.2	.0	.0	.0	.1	.0
9. Recpt 9	170.	.4	.0	.0	.0	.0	.0	.0	.1	.0
10. Recpt 10	169.	.3	.0	.0	.0	.0	.0	.0	.0	.0
11. Recpt 11	287.	.5	.0	.0	.2	.0	.1	.0	.0	.0
12. Recpt 12	344.	.4	.0	.0	.0	.0	.0	.0	.0	.0
13. Recpt 13	348.	.4	.0	.0	.0	.0	.0	.0	.0	.0
14. Recpt 14	283.	.5	.0	.0	.2	.0	.0	.0	.0	.0
15. Recpt 15	280.	.5	.0	.0	.2	.0	.0	.1	.0	.0
16. Recpt 16	257.	.5	.0	.0	.3	.0	.0	.0	.0	.0
17. Recpt 17	191.	.4	.0	.0	.0	.0	.0	.0	.1	.0
18. Recpt 18	188.	.3	.0	.0	.0	.0	.0	.0	.0	.0
19. Recpt 19	258.	.4	.0	.0	.2	.0	.0	.0	.0	.0
20. Recpt 20	257.	.4	.0	.0	.1	.0	.0	.0	.0	.0

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

     JOB: I15 NB and Carroll Canyon 2030A pm
     RUN: Hour 1           (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide
```

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

RECEPTOR	(PPM) I
1. Recpt 1	.0
2. Recpt 2	.0
3. Recpt 3	.0
4. Recpt 4	.0
5. Recpt 5	.0
6. Recpt 6	.0
7. Recpt 7	.0
8. Recpt 8	.0
9. Recpt 9	.0
10. Recpt 10	.0
11. Recpt 11	.0
12. Recpt 12	.0
13. Recpt 13	.0
14. Recpt 14	.0
15. Recpt 15	.0
16. Recpt 16	.0
17. Recpt 17	.0
18. Recpt 18	.0
19. Recpt 19	.0
20. Recpt 20	.0

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

     JOB: I15 SB and Carroll Canyon 2030A am
     RUN: Hour 1           (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide
```

I. SITE VARIABLES

```
      U=    .5 M/S            Z0= 100. CM           ALT=     0. (M)
    BRG= WORST CASE           VD=   .0 CM/S
   CLAS=     7 (G)            VS=   .0 CM/S
   MIXH= 1000. M             AMB=   .0 PPM
  SIGTH=   10. DEGREES       TEMP= 16.0 DEGREE (C)
```

II. LINK VARIABLES

LINK DESCRIPTION	LINK COORDINATES (M) X1	Y1	X2	Y2	TYPE	VPH	EF (G/MI)	H (M)	W (M)
A. CC EBTA	8900	576	9050	581	AG	742	1.8	.0	10.0
B. CC EBRA	8900	573	9050	578	AG	809	1.8	.0	10.0
C. CC EBD	9050	581	9200	581	AG	1072	1.8	.0	10.0
D. CC WBLA	9200	585	9050	585	AG	790	1.8	.0	10.0
E. CC WBTA	9200	589	9050	589	AG	1507	1.8	.0	10.0
F. CC WBD	9050	589	8900	584	AG	2263	1.8	.0	10.0
G. I15 SBLA	9071	738	9050	585	AG	330	1.8	.0	10.0
H. I15 SBRA	9067	738	9046	585	AG	776	1.8	.0	10.0
I. I15 SBD	9050	585	9065	433	AG	1619	1.8	.0	10.0

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

JOB: I15 SB and Carroll Canyon 2030A am
RUN: Hour 1 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

III. RECEPTOR LOCATIONS

RECEPTOR	COORDINATES (M) X	Y	Z
1. Recpt 1	9040	570	1.8
2. Recpt 2	9020	568	1.8
3. Recpt 3	9000	566	1.8
4. Recpt 4	9042	550	1.8
5. Recpt 5	9044	530	1.8
6. Recpt 6	9040	600	1.8
7. Recpt 7	9020	599	1.8
8. Recpt 8	9000	598	1.8
9. Recpt 9	9043	620	1.8
10. Recpt 10	9046	640	1.8
11. Recpt 11	9060	600	1.8
12. Recpt 12	9063	620	1.8
13. Recpt 13	9066	640	1.8
14. Recpt 14	9080	600	1.8
15. Recpt 15	9100	600	1.8
16. Recpt 16	9060	570	1.8
17. Recpt 17	9062	550	1.8
18. Recpt 18	9064	530	1.8
19. Recpt 19	9080	570	1.8
20. Recpt 20	9100	570	1.8

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

JOB: I15 SB and Carroll Canyon 2030A 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. Recpt 1	74.	.6	.0	.0	.2	.1	.1	.0	.0	.0
2. Recpt 2	73.	.5	.0	.0	.1	.0	.1	.0	.0	.0
3. Recpt 3	75.	.5	.0	.0	.0	.0	.1	.0	.0	.0
4. Recpt 4	11.	.4	.0	.0	.0	.0	.0	.0	.0	.1
5. Recpt 5	8.	.4	.0	.0	.0	.0	.0	.0	.0	.0
6. Recpt 6	164.	.6	.0	.0	.0	.0	.0	.2	.0	.0
7. Recpt 7	104.	.5	.0	.0	.1	.0	.2	.0	.0	.0
8. Recpt 8	102.	.5	.0	.0	.1	.0	.1	.2	.0	.0
9. Recpt 9	171.	.5	.0	.0	.0	.0	.0	.0	.0	.1
10. Recpt 10	174.	.5	.0	.0	.0	.0	.0	.0	.0	.1
11. Recpt 11	252.	.6	.0	.0	.0	.0	.0	.3	.0	.0
12. Recpt 12	245.	.4	.0	.0	.0	.0	.0	.1	.0	.0
13. Recpt 13	211.	.3	.0	.0	.0	.0	.0	.0	.0	.0
14. Recpt 14	255.	.5	.0	.0	.0	.0	.0	.2	.0	.0
15. Recpt 15	256.	.5	.0	.0	.0	.0	.1	.1	.0	.0
16. Recpt 16	282.	.6	.1	.2	.0	.0	.0	.2	.0	.0
17. Recpt 17	331.	.4	.0	.0	.0	.0	.0	.0	.0	.0
18. Recpt 18	337.	.4	.0	.0	.0	.0	.0	.0	.0	.0
19. Recpt 19	281.	.5	.0	.0	.0	.0	.0	.2	.0	.0
20. Recpt 20	281.	.5	.0	.0	.0	.0	.0	.2	.0	.0

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

JOB: I15 SB and Carroll Canyon 2030A am
RUN: Hour 1 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

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

RECEPTOR	(PPM) I
1. Recpt 1	.1
2. Recpt 2	.0
3. Recpt 3	.0
4. Recpt 4	.0
5. Recpt 5	.1
6. Recpt 6	.3
7. Recpt 7	.0
8. Recpt 8	.0
9. Recpt 9	.2
10. Recpt 10	.1
11. Recpt 11	.0
12. Recpt 12	.0
13. Recpt 13	.0
14. Recpt 14	.0
15. Recpt 15	.0
16. Recpt 16	.2
17. Recpt 17	.2
18. Recpt 18	.3
19. Recpt 19	.0
20. Recpt 20	.0

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

JOB: I15 SB and Carroll Canyon 2030A pm
RUN: Hour 1 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

I. SITE VARIABLES

U=	.5 M/S	Z0=	100. CM	ALT=	0. (M)
BRG=	WORST CASE	VD=	.0 CM/S		
CLAS=	7 (G)	VS=	.0 CM/S		
MIXH=	1000. M	AMB=	.0 PPM		
SIGTH=	10. DEGREES	TEMP=	16.0 DEGREE (C)		

II. LINK VARIABLES

LINK DESCRIPTION	*	LINK COORDINATES (M) X1	Y1	X2	Y2	* TYPE	VPH	EF (G/MI)	H (M)	W (M)
A. CC EBTA	*	8900	576	9050	581	* AG	1131	1.8	.0	10.0
B. CC EBRA	*	8900	573	9050	578	* AG	641	1.8	.0	10.0
C. CC EBD	*	9050	581	9200	581	* AG	1301	1.8	.0	10.0
D. CC WBLA	*	9200	585	9050	585	* AG	700	1.8	.0	10.0
E. CC WBTA	*	9200	589	9050	589	* AG	1300	1.8	.0	10.0
F. CC WBD	*	9050	589	8900	584	* AG	1778	1.8	.0	10.0
G. I15 SBLA	*	9071	738	9050	585	* AG	170	1.8	.0	10.0
H. I15 SBRA	*	9067	738	9046	585	* AG	498	1.8	.0	10.0
I. I15 SBD	*	9050	585	9065	433	* AG	1361	1.8	.0	10.0

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

JOB: I15 SB and Carroll Canyon 2030A pm
RUN: Hour 1 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

III. RECEPTOR LOCATIONS

RECEPTOR	COORDINATES (M) X	Y	Z
1. Recpt 1	9040	570	1.8
2. Recpt 2	9020	568	1.8
3. Recpt 3	9000	566	1.8
4. Recpt 4	9042	550	1.8
5. Recpt 5	9044	530	1.8
6. Recpt 6	9040	600	1.8
7. Recpt 7	9020	599	1.8
8. Recpt 8	9000	598	1.8
9. Recpt 9	9043	620	1.8
10. Recpt 10	9046	640	1.8
11. Recpt 11	9060	600	1.8
12. Recpt 12	9063	620	1.8
13. Recpt 13	9066	640	1.8
14. Recpt 14	9080	600	1.8
15. Recpt 15	9100	600	1.8
16. Recpt 16	9060	570	1.8
17. Recpt 17	9062	550	1.8
18. Recpt 18	9064	530	1.8
19. Recpt 19	9080	570	1.8
20. Recpt 20	9100	570	1.8

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

JOB: I15 SB and Carroll Canyon 2030A 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. Recpt 1	74.	.6	.0	.0	.2	.0	.1	.0	.0	.0
2. Recpt 2	74.	.5	.0	.0	.1	.0	.1	.0	.0	.0
3. Recpt 3	75.	.5	.0	.0	.0	.0	.1	.0	.0	.0
4. Recpt 4	12.	.4	.0	.0	.0	.0	.0	.0	.0	.0
5. Recpt 5	10.	.3	.0	.0	.0	.0	.0	.0	.0	.0
6. Recpt 6	165.	.5	.0	.0	.0	.0	.0	.2	.0	.0
7. Recpt 7	103.	.5	.0	.0	.1	.0	.2	.0	.0	.0
8. Recpt 8	102.	.5	.0	.0	.1	.0	.0	.2	.0	.0
9. Recpt 9	171.	.4	.0	.0	.0	.0	.0	.0	.0	.0
10. Recpt 10	174.	.4	.0	.0	.0	.0	.0	.0	.0	.0
11. Recpt 11	252.	.5	.1	.0	.0	.0	.0	.2	.0	.0
12. Recpt 12	189.	.3	.0	.0	.0	.0	.0	.0	.0	.0
13. Recpt 13	189.	.3	.0	.0	.0	.0	.0	.0	.0	.0
14. Recpt 14	255.	.5	.1	.0	.0	.0	.0	.2	.0	.0
15. Recpt 15	255.	.5	.1	.0	.0	.0	.1	.0	.0	.0
16. Recpt 16	282.	.6	.2	.1	.0	.0	.0	.2	.0	.0
17. Recpt 17	291.	.4	.0	.0	.0	.0	.0	.0	.0	.0
18. Recpt 18	336.	.4	.0	.0	.0	.0	.0	.0	.0	.0
19. Recpt 19	281.	.5	.1	.0	.0	.0	.0	.2	.0	.0
20. Recpt 20	281.	.5	.0	.0	.0	.0	.0	.1	.0	.0

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

     JOB: I15 SB and Carroll Canyon 2030A pm
     RUN: Hour 1           (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide
```

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

RECEPTOR	(PPM) I
1. Recpt 1	.1
2. Recpt 2	.0
3. Recpt 3	.0
4. Recpt 4	.0
5. Recpt 5	.1
6. Recpt 6	.2
7. Recpt 7	.0
8. Recpt 8	.0
9. Recpt 9	.2
10. Recpt 10	.1
11. Recpt 11	.0
12. Recpt 12	.1
13. Recpt 13	.1
14. Recpt 14	.0
15. Recpt 15	.0
16. Recpt 16	.1
17. Recpt 17	.2
18. Recpt 18	.2
19. Recpt 19	.0
20. Recpt 20	.0

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

JOB: Camino Santa Fe and Mira Mesa am 2030B
RUN: Hour 1 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

I. SITE VARIABLES

U= .5 M/S Z0= 100. CM ALT= 0. (M)
BRG= WORST CASE VD= .0 CM/S
CLAS= 7 (G) VS= .0 CM/S
MIXH= 1000. M AMB= .0 PPM
SIGTH= 10. DEGREES TEMP= 16.0 DEGREE (C)

II. LINK VARIABLES

LINK DESCRIPTION	LINK COORDINATES (M) X1	Y1	X2	Y2	TYPE	VPH	EF (G/MI)	H (M)	W (M)
A. MM EBLA	-150	0	0	0	AG	20	1.8	.0	10.0
B. MM EBTA	-150	-4	0	-4	AG	582	1.8	.0	10.0
C. MM EBRA	-150	-7	0	-7	AG	100	1.8	.0	10.0
D. MM EBD	0	-4	150	-4	AG	692	1.8	.0	10.0
E. MM WBLA	150	0	0	0	AG	210	1.8	.0	10.0
F. MM WBTA	150	4	0	4	AG	2902	1.8	.0	10.0
G. MM WBRA	150	7	0	7	AG	600	1.8	.0	10.0
H. MM WBD	0	4	-150	4	AG	3152	1.8	.0	10.0
I. CSF NBLA	0	-150	0	0	AG	170	1.8	.0	10.0
J. CSF NBTA	4	-150	4	0	AG	143	1.8	.0	10.0
K. CSF NBRA	7	-150	7	0	AG	70	1.8	.0	10.0
L. CSF NBD	4	0	4	150	AG	373	1.8	.0	10.0
M. CSF SBLA	0	150	0	0	AG	50	1.8	.0	10.0
N. CSF SBTA	-4	150	-4	0	AG	378	1.8	.0	10.0
O. CSF SBRA	-7	150	-7	0	AG	80	1.8	.0	10.0
P. CSF SBD	-4	0	-4	-150	AG	1078	1.8	.0	10.0

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

JOB: Camino Santa Fe and Mira Mesa am 2030B
RUN: Hour 1 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

III. RECEPTOR LOCATIONS

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

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

JOB: Camino Santa Fe and Mira Mesa am 2030B
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. Recpt 1	72.	.5	.0	.0	.0	.0	.0	.2	.0	.0
2. Recpt 2	74.	.5	.0	.0	.0	.0	.0	.2	.0	.0
3. Recpt 3	76.	.5	.0	.0	.0	.0	.0	.2	.0	.0
4. Recpt 4	63.	.4	.0	.0	.0	.0	.0	.1	.0	.0
5. Recpt 5	19.	.4	.0	.0	.0	.0	.0	.0	.0	.0
6. Recpt 6	102.	.7	.0	.0	.0	.0	.0	.4	.1	.0
7. Recpt 7	101.	.6	.0	.0	.0	.0	.0	.3	.0	.2
8. Recpt 8	101.	.6	.0	.0	.0	.0	.0	.2	.0	.3
9. Recpt 9	167.	.4	.0	.0	.0	.0	.0	.0	.0	.1
10. Recpt 10	169.	.3	.0	.0	.0	.0	.0	.0	.0	.0
11. Recpt 11	285.	.5	.0	.0	.0	.0	.0	.0	.0	.3
12. Recpt 12	285.	.5	.0	.0	.0	.0	.0	.0	.0	.3
13. Recpt 13	285.	.5	.0	.0	.0	.0	.0	.1	.0	.2
14. Recpt 14	293.	.3	.0	.0	.0	.0	.0	.0	.0	.2
15. Recpt 15	300.	.3	.0	.0	.0	.0	.0	.0	.0	.1
16. Recpt 16	195.	.5	.0	.0	.0	.0	.0	.2	.0	.0
17. Recpt 17	251.	.5	.0	.0	.0	.0	.0	.1	.0	.2
18. Recpt 18	252.	.6	.0	.0	.0	.0	.0	.2	.0	.0
19. Recpt 19	192.	.4	.0	.0	.0	.0	.0	.1	.0	.0
20. Recpt 20	190.	.3	.0	.0	.0	.0	.0	.0	.0	.0

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

JOB: Camino Santa Fe and Mira Mesa am 2030B
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. Recpt 1	.0	.0	.0	.0	.0	.0	.0	.1
2. Recpt 2	.0	.0	.0	.0	.0	.0	.0	.0
3. Recpt 3	.0	.0	.0	.0	.0	.0	.0	.0
4. Recpt 4	.0	.0	.0	.0	.0	.0	.0	.1
5. Recpt 5	.0	.0	.0	.0	.0	.0	.0	.2
6. Recpt 6	.0	.0	.0	.0	.0	.0	.0	.0
7. Recpt 7	.0	.0	.0	.0	.0	.0	.0	.0
8. Recpt 8	.0	.0	.0	.0	.0	.0	.0	.0
9. Recpt 9	.0	.0	.0	.0	.0	.0	.0	.1
10. Recpt 10	.0	.0	.0	.0	.0	.0	.0	.0
11. Recpt 11	.0	.0	.0	.0	.0	.0	.0	.0
12. Recpt 12	.0	.0	.0	.0	.0	.0	.0	.0
13. Recpt 13	.0	.0	.0	.0	.0	.0	.0	.0
14. Recpt 14	.0	.0	.0	.0	.0	.0	.0	.0
15. Recpt 15	.0	.0	.0	.0	.0	.0	.0	.0
16. Recpt 16	.0	.0	.0	.0	.0	.0	.0	.1
17. Recpt 17	.0	.0	.0	.0	.0	.0	.0	.0
18. Recpt 18	.0	.0	.0	.0	.0	.0	.0	.0
19. Recpt 19	.0	.0	.0	.0	.0	.0	.0	.1
20. Recpt 20	.0	.0	.0	.0	.0	.0	.0	.0

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

JOB: Camino Santa Fe and Mira Mesa pm 2030B
RUN: Hour 1 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

I. SITE VARIABLES

U=	.5 M/S	Z0=	100. CM	ALT=	0. (M)
BRG=	WORST CASE	VD=	.0 CM/S		
CLAS=	7 (G)	VS=	.0 CM/S		
MIXH=	1000. M	AMB=	.0 PPM		
SIGTH=	10. DEGREES	TEMP=	16.0 DEGREE (C)		

II. LINK VARIABLES

LINK DESCRIPTION	LINK COORDINATES (M) X1	Y1	X2	Y2	TYPE	VPH	EF (G/MI)	H (M)	W (M)
A. MM EBLA	-150	0	0	0	AG	110	1.8	.0	10.0
B. MM EBTA	-150	-4	0	-4	AG	2454	1.8	.0	10.0
C. MM EBRA	-150	-7	0	-7	AG	160	1.8	.0	10.0
D. MM EBD	0	-4	150	-4	AG	3094	1.8	.0	10.0
E. MM WBLA	150	0	0	0	AG	210	1.8	.0	10.0
F. MM WBTA	150	4	0	4	AG	556	1.8	.0	10.0
G. MM WBRA	150	7	0	7	AG	120	1.8	.0	10.0
H. MM WBD	0	4	-150	4	AG	776	1.8	.0	10.0
I. CSF NBLA	0	-150	0	0	AG	190	1.8	.0	10.0
J. CSF NBTA	4	-150	4	0	AG	370	1.8	.0	10.0
K. CSF NBRA	7	-150	7	0	AG	390	1.8	.0	10.0
L. CSF NBD	4	0	4	150	AG	600	1.8	.0	10.0
M. CSF SBLA	0	150	0	0	AG	250	1.8	.0	10.0
N. CSF SBTA	-4	150	-4	0	AG	264	1.8	.0	10.0
O. CSF SBRA	-7	150	-7	0	AG	30	1.8	.0	10.0
P. CSF SBD	-4	0	-4	-150	AG	634	1.8	.0	10.0

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

JOB: Camino Santa Fe and Mira Mesa pm 2030B
RUN: Hour 1 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

III. RECEPTOR LOCATIONS

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

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

JOB: Camino Santa Fe and Mira Mesa pm 2030B
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. Recpt 1	74.	.6	.0	.0	.0	.3	.0	.0	.0	.0
2. Recpt 2	76.	.5	.0	.0	.0	.3	.0	.0	.0	.0
3. Recpt 3	77.	.5	.0	.1	.0	.2	.0	.0	.0	.0
4. Recpt 4	66.	.4	.0	.0	.0	.2	.0	.0	.0	.0
5. Recpt 5	16.	.3	.0	.0	.0	.0	.0	.0	.0	.0
6. Recpt 6	105.	.5	.0	.0	.0	.3	.0	.0	.0	.0
7. Recpt 7	104.	.5	.0	.0	.0	.3	.0	.0	.0	.0
8. Recpt 8	103.	.5	.0	.0	.0	.2	.0	.0	.0	.0
9. Recpt 9	166.	.4	.0	.0	.0	.0	.0	.0	.0	.0
10. Recpt 10	167.	.3	.0	.0	.0	.0	.0	.0	.0	.0
11. Recpt 11	283.	.6	.0	.3	.0	.0	.0	.0	.0	.0
12. Recpt 12	283.	.6	.0	.2	.0	.2	.0	.0	.0	.0
13. Recpt 13	282.	.6	.0	.1	.0	.3	.0	.0	.0	.0
14. Recpt 14	292.	.4	.0	.2	.0	.0	.0	.0	.0	.0
15. Recpt 15	345.	.3	.0	.0	.0	.0	.0	.0	.0	.0
16. Recpt 16	191.	.5	.0	.0	.0	.2	.0	.0	.0	.0
17. Recpt 17	253.	.4	.0	.2	.0	.0	.0	.0	.0	.0
18. Recpt 18	252.	.4	.0	.1	.0	.0	.0	.0	.0	.0
19. Recpt 19	190.	.4	.0	.0	.0	.1	.0	.0	.0	.0
20. Recpt 20	190.	.4	.0	.0	.0	.0	.0	.0	.0	.0

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

JOB: Camino Santa Fe and Mira Mesa pm 2030B
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. Recpt 1	.0	.0	.0	.0	.0	.0	.0	.0
2. Recpt 2	.0	.0	.0	.0	.0	.0	.0	.0
3. Recpt 3	.0	.0	.0	.0	.0	.0	.0	.0
4. Recpt 4	.0	.0	.0	.0	.0	.0	.0	.0
5. Recpt 5	.0	.0	.0	.0	.0	.0	.0	.0
6. Recpt 6	.0	.0	.0	.0	.0	.0	.0	.0
7. Recpt 7	.0	.0	.0	.0	.0	.0	.0	.0
8. Recpt 8	.0	.0	.0	.0	.0	.0	.0	.0
9. Recpt 9	.0	.0	.0	.0	.0	.0	.0	.0
10. Recpt 10	.0	.0	.0	.0	.0	.0	.0	.0
11. Recpt 11	.0	.0	.0	.0	.0	.0	.0	.0
12. Recpt 12	.0	.0	.0	.0	.0	.0	.0	.0
13. Recpt 13	.0	.0	.0	.0	.0	.0	.0	.0
14. Recpt 14	.0	.0	.0	.0	.0	.0	.0	.0
15. Recpt 15	.0	.0	.0	.0	.0	.0	.0	.0
16. Recpt 16	.0	.0	.0	.0	.0	.0	.0	.0
17. Recpt 17	.0	.0	.0	.0	.0	.0	.0	.0
18. Recpt 18	.0	.0	.0	.0	.0	.0	.0	.0
19. Recpt 19	.0	.0	.0	.0	.0	.0	.0	.0
20. Recpt 20	.0	.0	.0	.0	.0	.0	.0	.0

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

JOB: I15 NB and Carroll Canyon 2030B am
RUN: Hour 1 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

I. SITE VARIABLES

U=	.5 M/S	Z0=	100. CM	ALT=	0. (M)
BRG=	WORST CASE	VD=	.0 CM/S		
CLAS=	7 (G)	VS=	.0 CM/S		
MIXH=	1000. M	AMB=	.0 PPM		
SIGTH=	10. DEGREES	TEMP=	16.0 DEGREE (C)		

II. LINK VARIABLES

LINK DESCRIPTION	*	LINK COORDINATES (M) X1	Y1	X2	Y2	* TYPE	VPH	EF (G/MI)	H (M)	W (M)
A. CC WBTA	*	9328	599	9178	589	* AG	1524	1.8	.0	10.0
B. CC WBRA	*	9328	602	9178	592	* AG	210	1.8	.0	10.0
C. CC WBD	*	9178	592	9028	592	* AG	2410	1.8	.0	10.0
D. CC EBLA	*	9028	585	9178	585	* AG	485	1.8	.0	10.0
E. CC EBTA	*	9028	581	9178	581	* AG	616	1.8	.0	10.0
F. CC EBD	*	9178	581	9328	591	* AG	1286	1.8	.0	10.0
G. I15 NBLA	*	9163	433	9178	585	* AG	886	1.8	.0	10.0
H. I15 NBRA	*	9167	433	9182	585	* AG	690	1.8	.0	10.0
I. I15 NBD	*	9178	585	9162	736	* AG	715	1.8	.0	10.0

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

JOB: I15 NB and Carroll Canyon 2030B am
RUN: Hour 1 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

III. RECEPTOR LOCATIONS

RECEPTOR	COORDINATES (M) X	Y	Z
1. Recpt 1	9168	571	1.8
2. Recpt 2	9166	551	1.8
3. Recpt 3	9164	531	1.8
4. Recpt 4	9148	571	1.8
5. Recpt 5	9128	571	1.8
6. Recpt 6	9128	602	1.8
7. Recpt 7	9148	602	1.8
8. Recpt 8	9168	602	1.8
9. Recpt 9	9165	622	1.8
10. Recpt 10	9162	642	1.8
11. Recpt 11	9190	571	1.8
12. Recpt 12	9188	551	1.8
13. Recpt 13	9186	531	1.8
14. Recpt 14	9210	573	1.8
15. Recpt 15	9230	575	1.8
16. Recpt 16	9190	602	1.8
17. Recpt 17	9188	622	1.8
18. Recpt 18	9186	642	1.8
19. Recpt 19	9210	604	1.8
20. Recpt 20	9230	606	1.8

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

JOB: I15 NB and Carroll Canyon 2030B 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. Recpt 1	71.	.6	.2	.0	.0	.0	.0	.2	.0	.0
2. Recpt 2	64.	.4	.0	.0	.0	.0	.0	.0	.1	.0
3. Recpt 3	29.	.4	.0	.0	.0	.0	.0	.0	.1	.0
4. Recpt 4	76.	.5	.2	.0	.0	.0	.0	.2	.0	.0
5. Recpt 5	78.	.4	.1	.0	.0	.0	.0	.1	.0	.0
6. Recpt 6	108.	.5	.0	.0	.3	.0	.0	.0	.0	.0
7. Recpt 7	115.	.5	.0	.0	.3	.0	.0	.0	.0	.0
8. Recpt 8	172.	.5	.0	.0	.2	.0	.0	.0	.1	.0
9. Recpt 9	170.	.4	.0	.0	.1	.0	.0	.0	.0	.0
10. Recpt 10	169.	.3	.0	.0	.0	.0	.0	.0	.0	.0
11. Recpt 11	287.	.5	.0	.0	.2	.0	.0	.0	.0	.0
12. Recpt 12	344.	.4	.0	.0	.0	.0	.0	.0	.0	.0
13. Recpt 13	348.	.4	.0	.0	.0	.0	.0	.0	.0	.1
14. Recpt 14	285.	.5	.0	.0	.2	.0	.0	.1	.0	.0
15. Recpt 15	281.	.5	.0	.0	.2	.0	.0	.2	.0	.0
16. Recpt 16	257.	.5	.0	.0	.3	.0	.0	.0	.0	.0
17. Recpt 17	190.	.4	.0	.0	.0	.0	.0	.0	.1	.0
18. Recpt 18	187.	.3	.0	.0	.0	.0	.0	.0	.0	.0
19. Recpt 19	258.	.4	.0	.0	.2	.0	.0	.0	.0	.0
20. Recpt 20	256.	.4	.0	.0	.1	.0	.0	.0	.0	.0

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

     JOB: I15 NB and Carroll Canyon 2030B am
     RUN: Hour 1           (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide
```

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

RECEPTOR	(PPM) I
1. Recpt 1	.0
2. Recpt 2	.0
3. Recpt 3	.0
4. Recpt 4	.0
5. Recpt 5	.0
6. Recpt 6	.0
7. Recpt 7	.0
8. Recpt 8	.0
9. Recpt 9	.0
10. Recpt 10	.0
11. Recpt 11	.0
12. Recpt 12	.0
13. Recpt 13	.0
14. Recpt 14	.0
15. Recpt 15	.0
16. Recpt 16	.0
17. Recpt 17	.0
18. Recpt 18	.0
19. Recpt 19	.0
20. Recpt 20	.0

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

     JOB: I15 NB and Carroll Canyon 2030A pm
     RUN: Hour 1           (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide
```

I. SITE VARIABLES

```
   U=    .5 M/S            Z0= 100. CM           ALT=     0. (M)
 BRG= WORST CASE           VD=   .0 CM/S
CLAS=     7 (G)            VS=   .0 CM/S
MIXH= 1000. M             AMB=   .0 PPM
SIGTH=   10. DEGREES      TEMP= 16.0 DEGREE (C)
```

II. LINK VARIABLES

LINK DESCRIPTION	LINK COORDINATES (M) X1	Y1	X2	Y2	TYPE	VPH	EF (G/MI)	H (M)	W (M)
A. CC WBTA	9328	599	9178	589	AG	1013	1.8	.0	10.0
B. CC WBRA	9328	602	9178	592	AG	250	1.8	.0	10.0
C. CC WBD	9178	592	9028	592	AG	2040	1.8	.0	10.0
D. CC EBLA	9028	585	9178	585	AG	613	1.8	.0	10.0
E. CC EBTA	9028	581	9178	581	AG	767	1.8	.0	10.0
F. CC EBD	9178	581	9328	591	AG	1287	1.8	.0	10.0
G. I15 NBLA	9163	433	9178	585	AG	1027	1.8	.0	10.0
H. I15 NBRA	9167	433	9182	585	AG	520	1.8	.0	10.0
I. I15 NBD	9178	585	9162	736	AG	883	1.8	.0	10.0

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

JOB: I15 NB and Carroll Canyon 2030A pm
RUN: Hour 1 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

III. RECEPTOR LOCATIONS

RECEPTOR	COORDINATES (M) X	Y	Z
1. Recpt 1	9168	571	1.8
2. Recpt 2	9166	551	1.8
3. Recpt 3	9164	531	1.8
4. Recpt 4	9148	571	1.8
5. Recpt 5	9128	571	1.8
6. Recpt 6	9128	602	1.8
7. Recpt 7	9148	602	1.8
8. Recpt 8	9168	602	1.8
9. Recpt 9	9165	622	1.8
10. Recpt 10	9162	642	1.8
11. Recpt 11	9190	571	1.8
12. Recpt 12	9188	551	1.8
13. Recpt 13	9186	531	1.8
14. Recpt 14	9210	573	1.8
15. Recpt 15	9230	575	1.8
16. Recpt 16	9190	602	1.8
17. Recpt 17	9188	622	1.8
18. Recpt 18	9186	642	1.8
19. Recpt 19	9210	604	1.8
20. Recpt 20	9230	606	1.8

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

JOB: I15 NB and Carroll Canyon 2030A 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. Recpt 1	72.	.5	.1	.0	.0	.0	.0	.2	.1	.0
2. Recpt 2	33.	.4	.0	.0	.0	.0	.0	.0	.2	.0
3. Recpt 3	28.	.3	.0	.0	.0	.0	.0	.0	.2	.0
4. Recpt 4	75.	.4	.1	.0	.0	.0	.0	.2	.0	.0
5. Recpt 5	77.	.4	.1	.0	.0	.0	.0	.1	.0	.0
6. Recpt 6	110.	.5	.0	.0	.3	.0	.0	.0	.0	.0
7. Recpt 7	117.	.5	.0	.0	.2	.0	.0	.0	.0	.0
8. Recpt 8	172.	.5	.0	.0	.2	.0	.0	.0	.2	.0
9. Recpt 9	170.	.4	.0	.0	.0	.0	.0	.0	.1	.0
10. Recpt 10	169.	.3	.0	.0	.0	.0	.0	.0	.0	.0
11. Recpt 11	287.	.5	.0	.0	.2	.0	.1	.0	.0	.0
12. Recpt 12	344.	.4	.0	.0	.0	.0	.0	.0	.0	.0
13. Recpt 13	348.	.4	.0	.0	.0	.0	.0	.0	.0	.0
14. Recpt 14	283.	.5	.0	.0	.2	.0	.0	.0	.0	.0
15. Recpt 15	280.	.5	.0	.0	.2	.0	.0	.1	.0	.0
16. Recpt 16	257.	.5	.0	.0	.3	.0	.0	.0	.0	.0
17. Recpt 17	191.	.4	.0	.0	.0	.0	.0	.0	.1	.0
18. Recpt 18	188.	.3	.0	.0	.0	.0	.0	.0	.1	.0
19. Recpt 19	258.	.4	.0	.0	.2	.0	.0	.0	.0	.0
20. Recpt 20	257.	.4	.0	.0	.1	.0	.0	.0	.0	.0

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

     JOB: I15 NB and Carroll Canyon 2030A pm
     RUN: Hour 1           (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide
```

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

RECEPTOR	(PPM) I
1. Recpt 1	.0
2. Recpt 2	.0
3. Recpt 3	.0
4. Recpt 4	.0
5. Recpt 5	.0
6. Recpt 6	.0
7. Recpt 7	.0
8. Recpt 8	.0
9. Recpt 9	.0
10. Recpt 10	.0
11. Recpt 11	.0
12. Recpt 12	.0
13. Recpt 13	.0
14. Recpt 14	.0
15. Recpt 15	.0
16. Recpt 16	.0
17. Recpt 17	.0
18. Recpt 18	.0
19. Recpt 19	.0
20. Recpt 20	.0

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

     JOB: I15 SB and Carroll Canyon 2030B am
     RUN: Hour 1           (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide
```

I. SITE VARIABLES

```
      U=    .5 M/S            Z0= 100. CM           ALT=     0. (M)
    BRG= WORST CASE           VD=   .0 CM/S
   CLAS=     7 (G)            VS=   .0 CM/S
   MIXH= 1000. M             AMB=   .0 PPM
  SIGTH=   10. DEGREES       TEMP= 16.0 DEGREE (C)
```

II. LINK VARIABLES

LINK DESCRIPTION	*	LINK COORDINATES (M) X1	Y1	X2	Y2	* TYPE	VPH	EF (G/MI)	H (M)	W (M)
A. CC EBTA	*	8900	576	9050	581	* AG	771	1.8	.0	10.0
B. CC EBRA	*	8900	573	9050	578	* AG	841	1.8	.0	10.0
C. CC EBD	*	9050	581	9200	581	* AG	1101	1.8	.0	10.0
D. CC WBLA	*	9200	585	9050	585	* AG	790	1.8	.0	10.0
E. CC WBTA	*	9200	589	9050	589	* AG	1600	1.8	.0	10.0
F. CC WBD	*	9050	589	8900	584	* AG	2413	1.8	.0	10.0
G. I15 SBLA	*	9071	738	9050	585	* AG	330	1.8	.0	10.0
H. I15 SBRA	*	9067	738	9046	585	* AG	813	1.8	.0	10.0
I. I15 SBD	*	9050	585	9065	433	* AG	1651	1.8	.0	10.0

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

JOB: I15 SB and Carroll Canyon 2030B am
RUN: Hour 1 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

III. RECEPTOR LOCATIONS

RECEPTOR	COORDINATES (M) X	Y	Z
1. Recpt 1	9040	570	1.8
2. Recpt 2	9020	568	1.8
3. Recpt 3	9000	566	1.8
4. Recpt 4	9042	550	1.8
5. Recpt 5	9044	530	1.8
6. Recpt 6	9040	600	1.8
7. Recpt 7	9020	599	1.8
8. Recpt 8	9000	598	1.8
9. Recpt 9	9043	620	1.8
10. Recpt 10	9046	640	1.8
11. Recpt 11	9060	600	1.8
12. Recpt 12	9063	620	1.8
13. Recpt 13	9066	640	1.8
14. Recpt 14	9080	600	1.8
15. Recpt 15	9100	600	1.8
16. Recpt 16	9060	570	1.8
17. Recpt 17	9062	550	1.8
18. Recpt 18	9064	530	1.8
19. Recpt 19	9080	570	1.8
20. Recpt 20	9100	570	1.8

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

JOB: I15 SB and Carroll Canyon 2030B 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. Recpt 1	73.	.6	.0	.0	.2	.1	.2	.0	.0	.0
2. Recpt 2	73.	.5	.0	.0	.1	.0	.1	.0	.0	.0
3. Recpt 3	75.	.5	.0	.0	.0	.0	.1	.0	.0	.0
4. Recpt 4	11.	.5	.0	.0	.0	.0	.0	.0	.0	.1
5. Recpt 5	8.	.4	.0	.0	.0	.0	.0	.0	.0	.0
6. Recpt 6	164.	.6	.0	.0	.0	.0	.0	.2	.0	.0
7. Recpt 7	104.	.6	.0	.0	.1	.0	.2	.1	.0	.0
8. Recpt 8	102.	.6	.0	.0	.1	.0	.1	.2	.0	.0
9. Recpt 9	171.	.5	.0	.0	.0	.0	.0	.0	.0	.1
10. Recpt 10	174.	.5	.0	.0	.0	.0	.0	.0	.0	.1
11. Recpt 11	252.	.6	.0	.0	.0	.0	.0	.3	.0	.0
12. Recpt 12	245.	.4	.0	.0	.0	.0	.0	.1	.0	.0
13. Recpt 13	212.	.3	.0	.0	.0	.0	.0	.0	.0	.1
14. Recpt 14	255.	.6	.0	.0	.0	.0	.0	.2	.0	.0
15. Recpt 15	256.	.5	.0	.0	.0	.0	.1	.1	.0	.0
16. Recpt 16	282.	.7	.1	.2	.0	.0	.0	.2	.0	.0
17. Recpt 17	331.	.5	.0	.0	.0	.0	.0	.0	.0	.0
18. Recpt 18	337.	.4	.0	.0	.0	.0	.0	.0	.0	.0
19. Recpt 19	281.	.5	.1	.0	.0	.0	.0	.2	.0	.0
20. Recpt 20	281.	.5	.0	.0	.0	.0	.0	.2	.0	.0

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

     JOB: I15 SB and Carroll Canyon 2030B am
     RUN: Hour 1           (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide
```

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

RECEPTOR	(PPM) I
1. Recpt 1	.1
2. Recpt 2	.0
3. Recpt 3	.0
4. Recpt 4	.1
5. Recpt 5	.1
6. Recpt 6	.3
7. Recpt 7	.0
8. Recpt 8	.0
9. Recpt 9	.2
10. Recpt 10	.2
11. Recpt 11	.0
12. Recpt 12	.0
13. Recpt 13	.0
14. Recpt 14	.0
15. Recpt 15	.0
16. Recpt 16	.2
17. Recpt 17	.2
18. Recpt 18	.3
19. Recpt 19	.0
20. Recpt 20	.0

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

     JOB: I15 SB and Carroll Canyon 2030B pm
     RUN: Hour 1           (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide
```

I. SITE VARIABLES

```
      U=    .5 M/S            Z0= 100. CM           ALT=     0. (M)
    BRG= WORST CASE           VD=   .0 CM/S
   CLAS=     7 (G)            VS=   .0 CM/S
   MIXH= 1000. M             AMB=   .0 PPM
  SIGTH=   10. DEGREES       TEMP= 16.0 DEGREE (C)
```

II. LINK VARIABLES

LINK DESCRIPTION	LINK COORDINATES (M) X1	Y1	X2	Y2	TYPE	VPH	EF (G/MI)	H (M)	W (M)
A. CC EBTA	8900	576	9050	581	AG	1210	1.8	.0	10.0
B. CC EBRA	8900	573	9050	578	AG	715	1.8	.0	10.0
C. CC EBD	9050	581	9200	581	AG	1380	1.8	.0	10.0
D. CC WBLA	9200	585	9050	585	AG	700	1.8	.0	10.0
E. CC WBTA	9200	589	9050	589	AG	1340	1.8	.0	10.0
F. CC WBD	9050	589	8900	584	AG	1840	1.8	.0	10.0
G. I15 SBLA	9071	738	9050	585	AG	170	1.8	.0	10.0
H. I15 SBRA	9067	738	9046	585	AG	520	1.8	.0	10.0
I. I15 SBD	9050	585	9065	433	AG	1435	1.8	.0	10.0

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

JOB: I15 SB and Carroll Canyon 2030B pm
RUN: Hour 1 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

III. RECEPTOR LOCATIONS

RECEPTOR	COORDINATES (M) X	Y	Z
1. Recpt 1	9040	570	1.8
2. Recpt 2	9020	568	1.8
3. Recpt 3	9000	566	1.8
4. Recpt 4	9042	550	1.8
5. Recpt 5	9044	530	1.8
6. Recpt 6	9040	600	1.8
7. Recpt 7	9020	599	1.8
8. Recpt 8	9000	598	1.8
9. Recpt 9	9043	620	1.8
10. Recpt 10	9046	640	1.8
11. Recpt 11	9060	600	1.8
12. Recpt 12	9063	620	1.8
13. Recpt 13	9066	640	1.8
14. Recpt 14	9080	600	1.8
15. Recpt 15	9100	600	1.8
16. Recpt 16	9060	570	1.8
17. Recpt 17	9062	550	1.8
18. Recpt 18	9064	530	1.8
19. Recpt 19	9080	570	1.8
20. Recpt 20	9100	570	1.8

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

JOB: I15 SB and Carroll Canyon 2030B 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. Recpt 1	74.	.6	.0	.0	.2	.0	.1	.0	.0	.0
2. Recpt 2	73.	.5	.0	.0	.1	.0	.1	.0	.0	.0
3. Recpt 3	75.	.5	.0	.0	.0	.0	.1	.0	.0	.0
4. Recpt 4	12.	.4	.0	.0	.0	.0	.0	.0	.0	.0
5. Recpt 5	10.	.3	.0	.0	.0	.0	.0	.0	.0	.0
6. Recpt 6	165.	.6	.0	.0	.0	.0	.0	.2	.0	.0
7. Recpt 7	104.	.5	.0	.0	.1	.0	.1	.0	.0	.0
8. Recpt 8	102.	.5	.0	.0	.1	.0	.0	.2	.0	.0
9. Recpt 9	171.	.4	.0	.0	.0	.0	.0	.0	.0	.0
10. Recpt 10	174.	.4	.0	.0	.0	.0	.0	.0	.0	.0
11. Recpt 11	252.	.5	.1	.0	.0	.0	.0	.3	.0	.0
12. Recpt 12	189.	.3	.0	.0	.0	.0	.0	.0	.0	.0
13. Recpt 13	189.	.3	.0	.0	.0	.0	.0	.0	.0	.0
14. Recpt 14	255.	.5	.1	.0	.0	.0	.0	.2	.0	.0
15. Recpt 15	255.	.5	.1	.0	.0	.0	.1	.1	.0	.0
16. Recpt 16	282.	.6	.2	.1	.0	.0	.0	.2	.0	.0
17. Recpt 17	291.	.4	.0	.0	.0	.0	.0	.1	.0	.0
18. Recpt 18	336.	.4	.0	.0	.0	.0	.0	.0	.0	.0
19. Recpt 19	281.	.5	.1	.0	.0	.0	.0	.2	.0	.0
20. Recpt 20	281.	.5	.0	.0	.0	.0	.0	.1	.0	.0

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

     JOB: I15 SB and Carroll Canyon 2030B pm
     RUN: Hour 1           (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide
```

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

RECEPTOR	(PPM) I
1. Recpt 1	.1
2. Recpt 2	.0
3. Recpt 3	.0
4. Recpt 4	.0
5. Recpt 5	.1
6. Recpt 6	.2
7. Recpt 7	.0
8. Recpt 8	.0
9. Recpt 9	.2
10. Recpt 10	.1
11. Recpt 11	.0
12. Recpt 12	.1
13. Recpt 13	.1
14. Recpt 14	.0
15. Recpt 15	.0
16. Recpt 16	.2
17. Recpt 17	.2
18. Recpt 18	.2
19. Recpt 19	.0
20. Recpt 20	.0

Stone Creek 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
General Light Industry	165.00	1000sqft	12.56	165,000.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.6	**Precipitation Freq (Days)**	40
Climate Zone	13			**Operational Year**	2020
Utility Company					
CO2 Intensity (lb/MWhr)	0	**CH4 Intensity (lb/MWhr)**	0	**N2O Intensity (lb/MWhr)**	0

1.3 User Entered Comments & Non-Default Data

Vehicle Emission Factors -

Vehicle Emission Factors -

Vehicle Emission Factors -

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	250.00	150.00
tblArchitecturalCoating	EF_Nonresidential_Interior	250.00	100.00
tblArchitecturalCoating	EF_Parking	250.00	0.00
tblArchitecturalCoating	EF_Residential_Exterior	250.00	150.00
tblArchitecturalCoating	EF_Residential_Interior	250.00	100.00
tblAreaCoating	Area_EF_Parking	250	0

tblAreaCoating	Area_Nonresidential_Exterior	82500	0
tblAreaCoating	Area_Nonresidential_Interior	247500	0
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	40	15
tblConstructionPhase	NumDays	20.00	43.00
tblConstructionPhase	NumDays	300.00	129.00
tblConstructionPhase	NumDays	30.00	64.00
tblConstructionPhase	NumDays	20.00	152.00
tblGrading	AcresOfGrading	160.00	12.56
tblLandUse	LotAcreage	3.79	12.56
tblOffRoadEquipment	HorsePower	231.00	208.00
tblOffRoadEquipment	HorsePower	158.00	157.00
tblOffRoadEquipment	HorsePower	89.00	149.00
tblOffRoadEquipment	HorsePower	187.00	162.00
tblOffRoadEquipment	HorsePower	130.00	89.00
tblOffRoadEquipment	HorsePower	132.00	82.00
tblOffRoadEquipment	HorsePower	80.00	84.00
tblOffRoadEquipment	HorsePower	247.00	358.00
tblOffRoadEquipment	HorsePower	367.00	356.00
tblOffRoadEquipment	HorsePower	97.00	75.00
tblOffRoadEquipment	HorsePower	97.00	75.00
tblOffRoadEquipment	HorsePower	158.00	157.00
tblOffRoadEquipment	HorsePower	402.00	250.00
tblOffRoadEquipment	HorsePower	80.00	84.00
tblOffRoadEquipment	HorsePower	100.00	83.00
tblOffRoadEquipment	HorsePower	78.00	69.00
tblOffRoadEquipment	LoadFactor	0.29	0.43
tblOffRoadEquipment	LoadFactor	0.38	0.57
tblOffRoadEquipment	LoadFactor	0.20	0.30
tblOffRoadEquipment	LoadFactor	0.41	0.61
tblOffRoadEquipment	LoadFactor	0.42	0.62

tblOffRoadEquipment	LoadFactor	0.36	0.53
tblOffRoadEquipment	LoadFactor	0.38	0.56
tblOffRoadEquipment	LoadFactor	0.40	0.59
tblOffRoadEquipment	LoadFactor	0.48	0.72
tblOffRoadEquipment	LoadFactor	0.37	0.55
tblOffRoadEquipment	LoadFactor	0.37	0.55
tblOffRoadEquipment	LoadFactor	0.38	0.57
tblOffRoadEquipment	LoadFactor	0.38	0.57
tblOffRoadEquipment	LoadFactor	0.38	0.56
tblOffRoadEquipment	LoadFactor	0.40	0.60
tblOffRoadEquipment	LoadFactor	0.50	0.75
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblProjectCharacteristics	OperationalYear	2018	2020

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	9.5537	104.9122	73.4606	0.1121	6.4356	4.8909	11.3265	3.3872	4.4997	7.8868	0.0000	11,286.1354	11,286.1354	3.4514	0.0000	11,372.4197
2019	44.0318	36.6441	30.1962	0.0577	0.8646	1.9004	2.7650	0.2335	1.7890	2.0225	0.0000	5,691.7401	5,691.7401	1.1285	0.0000	5,719.9536
Maximum	**44.0318**	**104.9122**	**73.4606**	**0.1121**	**6.4356**	**4.8909**	**11.3265**	**3.3872**	**4.4997**	**7.8868**	**0.0000**	**11,286.1354**	**11,286.1354**	**3.4514**	**0.0000**	**11,372.4197**

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	9.5537	104.9122	73.4606	0.1121	2.6352	4.8909	7.5261	1.3542	4.4997	5.8539	0.0000	11,286.1354	11,286.1354	3.4514	0.0000	11,372.4197
2019	44.0318	36.6441	30.1962	0.0577	0.8646	1.9004	2.7650	0.2335	1.7890	2.0225	0.0000	5,691.7401	5,691.7401	1.1285	0.0000	5,719.9536
Maximum	**44.0318**	**104.9122**	**73.4606**	**0.1121**	**2.6352**	**4.8909**	**7.5261**	**1.3542**	**4.4997**	**5.8539**	**0.0000**	**11,286.1354**	**11,286.1354**	**3.4514**	**0.0000**	**11,372.4197**

	ROG	**NOx**	**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**	**52.06**	**0.00**	**26.97**	**56.15**	**0.00**	**20.52**	**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	3.5326	1.6000e-004	0.0170	0.0000		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005		0.0361	0.0361	1.0000e-004		0.0385
Energy	0.0565	0.5137	0.4315	3.0800e-003		0.0390	0.0390		0.0390	0.0390		616.3900	616.3900	0.0118	0.0113	620.0529
Mobile	2.2166	9.1727	26.2534	0.0872	7.1200	0.0838	7.2038	1.9031	0.0786	1.9817		8,849.2687	8,849.2687	0.4628		8,860.8383
Total	**5.8057**	**9.6865**	**26.7018**	**0.0903**	**7.1200**	**0.1229**	**7.2429**	**1.9031**	**0.1177**	**2.0208**		**9,465.6949**	**9,465.6949**	**0.4747**	**0.0113**	**9,480.9297**

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	3.5326	1.6000e-004	0.0170	0.0000		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005		0.0361	0.0361	1.0000e-004		0.0385
Energy	0.0565	0.5137	0.4315	3.0800e-003		0.0390	0.0390		0.0390	0.0390		616.3900	616.3900	0.0118	0.0113	620.0529
Mobile	2.2166	9.1727	26.2534	0.0872	7.1200	0.0838	7.2038	1.9031	0.0786	1.9817		8,849.2687	8,849.2687	0.4628		8,860.8383
Total	**5.8057**	**9.6865**	**26.7018**	**0.0903**	**7.1200**	**0.1229**	**7.2429**	**1.9031**	**0.1177**	**2.0208**		**9,465.6949**	**9,465.6949**	**0.4747**	**0.0113**	**9,480.9297**

	ROG	NOx	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	Grading	Grading	1/1/2018	3/31/2018	5	64	
2	Trenching	Trenching	4/1/2018	6/30/2018	5	65	
3	Paving	Paving	6/1/2018	12/31/2018	5	152	
4	Building Construction	Building Construction	1/1/2019	6/30/2019	5	129	
5	Architectural Coating	Architectural Coating	5/1/2019	6/30/2019	5	43	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 12.56

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 247,500; Non-Residential Outdoor: 82,500; Striped Parking Area: 0

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Grading	Excavators	2	8.00	157	0.57
Grading	Graders	1	8.00	162	0.61
Grading	Off-Highway Trucks	1	8.00	250	0.57
Grading	Rollers	1	8.00	84	0.56
Grading	Rubber Tired Dozers	1	8.00	358	0.59
Grading	Scrapers	2	8.00	356	0.72
Grading	Tractors/Loaders/Backhoes	2	8.00	75	0.55
Trenching	Excavators	1	8.00	157	0.57
Trenching	Rough Terrain Forklifts	2	8.00	83	0.60
Trenching	Trenchers	1	8.00	69	0.75
Paving	Pavers	2	8.00	89	0.62
Paving	Paving Equipment	2	8.00	82	0.53
Paving	Rollers	2	8.00	84	0.56
Building Construction	Cranes	1	8.00	208	0.43
Building Construction	Forklifts	3	8.00	149	0.30
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	8.00	75	0.55
Building Construction	Welders	1	8.00	46	0.45
Architectural Coating	Air Compressors	1	8.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Grading	10	25.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Trenching	4	10.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	69.00	27.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	14.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

3.2 Grading - 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					
Fugitive Dust					6.2302	0.0000	6.2302	3.3327	0.0000	3.3327			0.0000			0.0000
Off-Road	9.4473	104.8355	72.6047	0.1099		4.8895	4.8895		4.4983	4.4983		11,061.8292	11,061.8292	3.4437		11,147.9217
Total	**9.4473**	**104.8355**	**72.6047**	**0.1099**	**6.2302**	**4.8895**	**11.1197**	**3.3327**	**4.4983**	**7.8310**		**11,061.8292**	**11,061.8292**	**3.4437**		**11,147.9217**

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	0.1064	0.0766	0.8558	2.2500e-003	0.2054	1.4800e-003	0.2069	0.0545	1.3600e-003	0.0558		224.3061	224.3061	7.6800e-003		224.4980
Total	**0.1064**	**0.0766**	**0.8558**	**2.2500e-003**	**0.2054**	**1.4800e-003**	**0.2069**	**0.0545**	**1.3600e-003**	**0.0558**		**224.3061**	**224.3061**	**7.6800e-003**		**224.4980**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					2.4298	0.0000	2.4298	1.2998	0.0000	1.2998			0.0000			0.0000
Off-Road	9.4473	104.8355	72.6047	0.1099		4.8895	4.8895		4.4983	4.4983	0.0000	11,061.8292	11,061.8292	3.4437		11,147.9217
Total	**9.4473**	**104.8355**	**72.6047**	**0.1099**	**2.4298**	**4.8895**	**7.3192**	**1.2998**	**4.4983**	**5.7980**	**0.0000**	**11,061.8292**	**11,061.8292**	**3.4437**		**11,147.9217**

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	0.1064	0.0766	0.8558	2.2500e-003	0.2054	1.4800e-003	0.2069	0.0545	1.3600e-003	0.0558		224.3061	224.3061	7.6800e-003		224.4980
Total	**0.1064**	**0.0766**	**0.8558**	**2.2500e-003**	**0.2054**	**1.4800e-003**	**0.2069**	**0.0545**	**1.3600e-003**	**0.0558**		**224.3061**	**224.3061**	**7.6800e-003**		**224.4980**

3.3 Trenching - 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	1.4219	15.0110	14.1446	0.0208		0.8734	0.8734		0.8035	0.8035		2,087.9474	2,087.9474	0.6500		2,104.1975
Total	**1.4219**	**15.0110**	**14.1446**	**0.0208**		**0.8734**	**0.8734**		**0.8035**	**0.8035**		**2,087.9474**	**2,087.9474**	**0.6500**		**2,104.1975**

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	0.0426	0.0307	0.3423	9.0000e-004	0.0822	5.9000e-004	0.0827	0.0218	5.5000e-004	0.0223		89.7225	89.7225	3.0700e-003		89.7992
Total	**0.0426**	**0.0307**	**0.3423**	**9.0000e-004**	**0.0822**	**5.9000e-004**	**0.0827**	**0.0218**	**5.5000e-004**	**0.0223**		**89.7225**	**89.7225**	**3.0700e-003**		**89.7992**

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	1.4219	15.0110	14.1446	0.0208		0.8734	0.8734		0.8035	0.8035	0.0000	2,087.9474	2,087.9474	0.6500		2,104.1975
Total	**1.4219**	**15.0110**	**14.1446**	**0.0208**		**0.8734**	**0.8734**		**0.8035**	**0.8035**	**0.0000**	**2,087.9474**	**2,087.9474**	**0.6500**		**2,104.1975**

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	0.0426	0.0307	0.3423	9.0000e-004	0.0822	5.9000e-004	0.0827	0.0218	5.5000e-004	0.0223		89.7225	89.7225	3.0700e-003		89.7992
Total	**0.0426**	**0.0307**	**0.3423**	**9.0000e-004**	**0.0822**	**5.9000e-004**	**0.0827**	**0.0218**	**5.5000e-004**	**0.0223**		**89.7225**	**89.7225**	**3.0700e-003**		**89.7992**

3.4 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	2.5297	24.0327	18.6444	0.0250		1.7245	1.7245		1.5865	1.5865		2,521.3457	2,521.3457	0.7849		2,540.9690
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**2.5297**	**24.0327**	**18.6444**	**0.0250**		**1.7245**	**1.7245**		**1.5865**	**1.5865**		**2,521.3457**	**2,521.3457**	**0.7849**		**2,540.9690**

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	0.0639	0.0460	0.5135	1.3500e-003	0.1232	8.9000e-004	0.1241	0.0327	8.2000e-004	0.0335		134.5837	134.5837	4.6100e-003		134.6988
Total	**0.0639**	**0.0460**	**0.5135**	**1.3500e-003**	**0.1232**	**8.9000e-004**	**0.1241**	**0.0327**	**8.2000e-004**	**0.0335**		**134.5837**	**134.5837**	**4.6100e-003**		**134.6988**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.5297	24.0327	18.6444	0.0250		1.7245	1.7245		1.5865	1.5865	0.0000	2,521.3457	2,521.3457	0.7849		2,540.9690
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**2.5297**	**24.0327**	**18.6444**	**0.0250**		**1.7245**	**1.7245**		**1.5865**	**1.5865**	**0.0000**	**2,521.3457**	**2,521.3457**	**0.7849**		**2,540.9690**

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	0.0639	0.0460	0.5135	1.3500e-003	0.1232	8.9000e-004	0.1241	0.0327	8.2000e-004	0.0335		134.5837	134.5837	4.6100e-003		134.6988
Total	**0.0639**	**0.0460**	**0.5135**	**1.3500e-003**	**0.1232**	**8.9000e-004**	**0.1241**	**0.0327**	**8.2000e-004**	**0.0335**		**134.5837**	**134.5837**	**4.6100e-003**		**134.6988**

3.5 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	3.2091	30.6218	24.3087	0.0391		1.7006	1.7006		1.5906	1.5906		3,794.9655	3,794.9655	1.0121		3,820.2673
Total	**3.2091**	**30.6218**	**24.3087**	**0.0391**		**1.7006**	**1.7006**		**1.5906**	**1.5906**		**3,794.9655**	**3,794.9655**	**1.0121**		**3,820.2673**

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	0.1243	3.3477	0.8643	7.4500e-003	0.1828	0.0233	0.2061	0.0526	0.0223	0.0749		799.2449	799.2449	0.0617		800.7876
Worker	0.2709	0.1891	2.1349	6.0300e-003	0.5668	4.0400e-003	0.5709	0.1504	3.7200e-003	0.1541		600.4378	600.4378	0.0192		600.9171
Total	**0.3952**	**3.5368**	**2.9992**	**0.0135**	**0.7496**	**0.0273**	**0.7769**	**0.2030**	**0.0260**	**0.2290**		**1,399.6827**	**1,399.6827**	**0.0809**		**1,401.7047**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	3.2091	30.6218	24.3087	0.0391		1.7006	1.7006		1.5906	1.5906	0.0000	3,794.9655	3,794.9655	1.0121		3,820.2673
Total	**3.2091**	**30.6218**	**24.3087**	**0.0391**		**1.7006**	**1.7006**		**1.5906**	**1.5906**	**0.0000**	**3,794.9655**	**3,794.9655**	**1.0121**		**3,820.2673**

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	0.1243	3.3477	0.8643	7.4500e-003	0.1828	0.0233	0.2061	0.0526	0.0223	0.0749		799.2449	799.2449	0.0617		800.7876
Worker	0.2709	0.1891	2.1349	6.0300e-003	0.5668	4.0400e-003	0.5709	0.1504	3.7200e-003	0.1541		600.4378	600.4378	0.0192		600.9171
Total	**0.3952**	**3.5368**	**2.9992**	**0.0135**	**0.7496**	**0.0273**	**0.7769**	**0.2030**	**0.0260**	**0.2290**		**1,399.6827**	**1,399.6827**	**0.0809**		**1,401.7047**

3.6 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	40.0173					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.3553	2.4472	2.4551	3.9600e-003		0.1717	0.1717		0.1717	0.1717		375.2641	375.2641	0.0317		376.0565
Total	**40.3726**	**2.4472**	**2.4551**	**3.9600e-003**		**0.1717**	**0.1717**		**0.1717**	**0.1717**		**375.2641**	**375.2641**	**0.0317**		**376.0565**

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	0.0550	0.0384	0.4332	1.2200e-003	0.1150	8.2000e-004	0.1158	0.0305	7.6000e-004	0.0313		121.8280	121.8280	3.8900e-003		121.9252
Total	**0.0550**	**0.0384**	**0.4332**	**1.2200e-003**	**0.1150**	**8.2000e-004**	**0.1158**	**0.0305**	**7.6000e-004**	**0.0313**		**121.8280**	**121.8280**	**3.8900e-003**		**121.9252**

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	40.0173					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000

Off-Road	0.3553	2.4472	2.4551	3.9600e-003		0.1717	0.1717		0.1717	0.1717	0.0000	375.2641	375.2641	0.0317		376.0565
Total	**40.3726**	**2.4472**	**2.4551**	**3.9600e-003**		**0.1717**	**0.1717**		**0.1717**	**0.1717**	**0.0000**	**375.2641**	**375.2641**	**0.0317**		**376.0565**

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	0.0550	0.0384	0.4332	1.2200e-003	0.1150	8.2000e-004	0.1158	0.0305	7.6000e-004	0.0313		121.8280	121.8280	3.8900e-003		121.9252
Total	**0.0550**	**0.0384**	**0.4332**	**1.2200e-003**	**0.1150**	**8.2000e-004**	**0.1158**	**0.0305**	**7.6000e-004**	**0.0313**		**121.8280**	**121.8280**	**3.8900e-003**		**121.9252**

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	2.2166	9.1727	26.2534	0.0872	7.1200	0.0838	7.2038	1.9031	0.0786	1.9817		8,849.2687	8,849.2687	0.4628		8,860.8383
Unmitigated	2.2166	9.1727	26.2534	0.0872	7.1200	0.0838	7.2038	1.9031	0.0786	1.9817		8,849.2687	8,849.2687	0.4628		8,860.8383

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Light Industry	1,150.05	217.80	112.20	2,535,908	2,535,908
Total	1,150.05	217.80	112.20	2,535,908	2,535,908

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
General Light Industry	9.50	7.30	7.30	59.00	28.00	13.00	92	5	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
General Light Industry	0.588316	0.042913	0.184449	0.110793	0.017294	0.005558	0.015534	0.023021	0.001902	0.002024	0.006181	0.000745	0.001271

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.0565	0.5137	0.4315	3.0800e-003		0.0390	0.0390		0.0390	0.0390		616.3900	616.3900	0.0118	0.0113	620.0529
NaturalGas Unmitigated	0.0565	0.5137	0.4315	3.0800e-003		0.0390	0.0390		0.0390	0.0390		616.3900	616.3900	0.0118	0.0113	620.0529

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
General Light Industry	5239.32	0.0565	0.5137	0.4315	3.0800e-003		0.0390	0.0390		0.0390	0.0390		616.3900	616.3900	0.0118	0.0113	620.0529
Total	**0**	**0.0565**	**0.5137**	**0.4315**	**3.0800e-003**		**0.0390**	**0.0390**		**0.0390**	**0.0390**		**616.3900**	**616.3900**	**0.0118**	**0.0113**	**620.0529**

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
General Light Industry	5.23932	0.0565	0.5137	0.4315	3.0800e-003		0.0390	0.0390		0.0390	0.0390		616.3900	616.3900	0.0118	0.0113	620.0529
Total	**0**	**0.0565**	**0.5137**	**0.4315**	**3.0800e-003**		**0.0390**	**0.0390**		**0.0390**	**0.0390**		**616.3900**	**616.3900**	**0.0118**	**0.0113**	**620.0529**

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	3.5326	1.6000e-004	0.0170	0.0000		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005		0.0361	0.0361	1.0000e-004		0.0385
Unmitigated	3.5326	1.6000e-004	0.0170	0.0000		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005		0.0361	0.0361	1.0000e-004		0.0385

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	3.5310					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	1.5900e-003	1.6000e-004	0.0170	0.0000		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005		0.0361	0.0361	1.0000e-004		0.0385
Total	**3.5326**	**1.6000e-004**	**0.0170**	**0.0000**		**6.0000e-005**	**6.0000e-005**		**6.0000e-005**	**6.0000e-005**		**0.0361**	**0.0361**	**1.0000e-004**		**0.0385**

Mitigated

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

SubCategory	lb/day										lb/day					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	3.5310					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	1.5900e-003	1.6000e-004	0.0170	0.0000		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005		0.0361	0.0361	1.0000e-004		0.0385
Total	**3.5326**	**1.6000e-004**	**0.0170**	**0.0000**		**6.0000e-005**	**6.0000e-005**		**6.0000e-005**	**6.0000e-005**		**0.0361**	**0.0361**	**1.0000e-004**		**0.0385**

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

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

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

Boilers

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

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

Stone Creek Phase 2020 Scenario A

San Diego Air Basin, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Office Park	135.00	1000sqft	9.01	135,000.00	0
General Light Industry	250.00	1000sqft	24.46	250,000.00	0
Condo/Townhouse	285.00	Dwelling Unit	10.39	285,000.00	815
Condo/Townhouse	300.00	Dwelling Unit	10.36	300,000.00	858

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					
CO2 Intensity (lb/MWhr)	0	**CH4 Intensity (lb/MWhr)**	0	**N2O Intensity (lb/MWhr)**	0

1.3 User Entered Comments & Non-Default Data

Trips and VMT -

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	250.00	150.00
tblArchitecturalCoating	EF_Nonresidential_Interior	250.00	100.00
tblArchitecturalCoating	EF_Parking	250.00	0.00
tblArchitecturalCoating	EF_Residential_Exterior	250.00	150.00
tblArchitecturalCoating	EF_Residential_Interior	250.00	100.00

tblAreaCoating	Area_EF_Parking	250	0
tblAreaCoating	Area_Nonresidential_Exterior	192500	0
tblAreaCoating	Area_Nonresidential_Interior	577500	0
tblAreaCoating	Area_Residential_Exterior	394875	0
tblAreaCoating	Area_Residential_Interior	1184625	0
tblAreaMitigation	UseLowVOCPaintNonresidentialExteriorValue	250	0
tblAreaMitigation	UseLowVOCPaintNonresidentialInteriorValue	250	0
tblAreaMitigation	UseLowVOCPaintResidentialExteriorValue	250	0
tblAreaMitigation	UseLowVOCPaintResidentialInteriorValue	250	0
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	40	15
tblConstructionPhase	NumDays	75.00	261.00
tblConstructionPhase	NumDays	1,110.00	650.00
tblConstructionPhase	NumDays	110.00	261.00
tblConstructionPhase	NumDays	75.00	261.00
tblGrading	AcresOfGrading	652.50	59.44
tblLandUse	LotAcreage	3.10	9.01
tblLandUse	LotAcreage	5.74	24.46
tblLandUse	LotAcreage	17.81	10.39
tblLandUse	LotAcreage	18.75	10.36
tblOffRoadEquipment	HorsePower	231.00	208.00
tblOffRoadEquipment	HorsePower	158.00	157.00
tblOffRoadEquipment	HorsePower	89.00	149.00
tblOffRoadEquipment	HorsePower	187.00	162.00
tblOffRoadEquipment	HorsePower	130.00	89.00
tblOffRoadEquipment	HorsePower	132.00	82.00
tblOffRoadEquipment	HorsePower	80.00	84.00
tblOffRoadEquipment	HorsePower	247.00	358.00
tblOffRoadEquipment	HorsePower	367.00	356.00
tblOffRoadEquipment	HorsePower	97.00	75.00
tblOffRoadEquipment	HorsePower	97.00	75.00

tblOffRoadEquipment	HorsePower	158.00	157.00
tblOffRoadEquipment	HorsePower	402.00	250.00
tblOffRoadEquipment	HorsePower	80.00	84.00
tblOffRoadEquipment	HorsePower	100.00	83.00
tblOffRoadEquipment	HorsePower	78.00	69.00
tblOffRoadEquipment	LoadFactor	0.29	0.43
tblOffRoadEquipment	LoadFactor	0.38	0.57
tblOffRoadEquipment	LoadFactor	0.20	0.30
tblOffRoadEquipment	LoadFactor	0.41	0.61
tblOffRoadEquipment	LoadFactor	0.42	0.62
tblOffRoadEquipment	LoadFactor	0.36	0.53
tblOffRoadEquipment	LoadFactor	0.38	0.56
tblOffRoadEquipment	LoadFactor	0.40	0.59
tblOffRoadEquipment	LoadFactor	0.48	0.72
tblOffRoadEquipment	LoadFactor	0.37	0.55
tblOffRoadEquipment	LoadFactor	0.37	0.55
tblOffRoadEquipment	LoadFactor	0.38	0.57
tblOffRoadEquipment	LoadFactor	0.38	0.57
tblOffRoadEquipment	LoadFactor	0.38	0.56
tblOffRoadEquipment	LoadFactor	0.40	0.60
tblOffRoadEquipment	LoadFactor	0.50	0.75
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblProjectCharacteristics	OperationalYear	2018	2030

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	6.8181	60.3044	64.9675	0.1304	12.5157	2.6423	15.1580	6.7075	2.4309	9.1384	0.0000	12,628.6738	12,628.6738	4.0260	0.0000	12,729.3243
2026	1.4452	14.2860	18.1348	0.0261	0.1232	0.7768	0.9000	0.0327	0.7147	0.7474	0.0000	2,527.1410	2,527.1410	0.7871	0.0000	2,546.8194
2027	3.4494	25.1771	34.2977	0.1057	5.5272	0.7768	6.2210	1.4854	0.7146	2.1349	0.0000	10,657.4007	10,657.4007	1.2158	0.0000	10,687.7951
2028	3.3745	25.0226	33.7594	0.1044	5.5272	0.6916	6.2187	1.4854	0.6475	2.1329	0.0000	10,529.9051	10,529.9051	1.2094	0.0000	10,560.1389
2029	50.6678	26.1523	36.8758	0.1131	6.4636	0.7458	7.2094	1.7338	0.7015	2.4352	0.0000	11,393.8935	11,393.8935	1.2338	0.0000	11,424.7381
Maximum	**50.6678**	**60.3044**	**64.9675**	**0.1304**	**12.5157**	**2.6423**	**15.1580**	**6.7075**	**2.4309**	**9.1384**	**0.0000**	**12,628.6738**	**12,628.6738**	**4.0260**	**0.0000**	**12,729.3243**

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	6.8181	60.3044	64.9675	0.1304	5.0214	2.6423	7.6637	2.6532	2.4309	5.0840	0.0000	12,628.6738	12,628.6738	4.0260	0.0000	12,729.3243
2026	1.4452	14.2860	18.1348	0.0261	0.1232	0.7768	0.9000	0.0327	0.7147	0.7474	0.0000	2,527.1410	2,527.1410	0.7871	0.0000	2,546.8194
2027	3.4494	25.1771	34.2977	0.1057	5.5272	0.7768	6.2210	1.4854	0.7146	2.1349	0.0000	10,657.4006	10,657.4006	1.2158	0.0000	10,687.7951
2028	3.3745	25.0226	33.7594	0.1044	5.5272	0.6916	6.2187	1.4854	0.6475	2.1329	0.0000	10,529.9051	10,529.9051	1.2094	0.0000	10,560.1389
2029	50.6678	26.1523	36.8758	0.1131	6.4636	0.7458	7.2094	1.7338	0.7015	2.4352	0.0000	11,393.8935	11,393.8935	1.2338	0.0000	11,424.7381
Maximum	**50.6678**	**60.3044**	**64.9675**	**0.1304**	**6.4636**	**2.6423**	**7.6637**	**2.6532**	**2.4309**	**5.0840**	**0.0000**	**12,628.6738**	**12,628.6738**	**4.0260**	**0.0000**	**12,729.3243**

	ROG	**NOx**	**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**	**24.85**	**0.00**	**20.99**	**35.43**	**0.00**	**24.44**	**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	1,812.7635	35.5229	2,258.4292	4.0069		310.1665	310.1665		310.1665	310.1665	32,492.9250	13,714.0462	46,206.9711	30.0686	2.5558	47,720.3184
Energy	0.5106	4.4807	2.7172	0.0279		0.3528	0.3528		0.3528	0.3528		5,570.1953	5,570.1953	0.1068	0.1021	5,603.2962
Mobile	11.3182	45.3284	132.5452	0.5486	42.4790	0.3417	42.8208	11.7310	0.3175	12.0485		56,181.4843	56,181.4843	2.6173		56,246.9174
Total	**1,824.5923**	**85.3319**	**2,393.6917**	**4.5833**	**42.4790**	**310.8610**	**353.3401**	**11.7310**	**310.8368**	**322.5678**	**32,492.9250**	**75,465.7257**	**107,958.6507**	**32.7927**	**2.6579**	**109,570.5320**

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	1,812.7635	35.5229	2,258.4292	4.0069		310.1665	310.1665		310.1665	310.1665	32,492.9250	13,714.0462	46,206.9711	30.0686	2.5558	47,720.3184
Energy	0.5106	4.4807	2.7172	0.0279		0.3528	0.3528		0.3528	0.3528		5,570.1953	5,570.1953	0.1068	0.1021	5,603.2962
Mobile	11.3182	45.3284	132.5452	0.5486	42.4790	0.3417	42.8208	11.7310	0.3175	12.0485		56,181.4843	56,181.4843	2.6173		56,246.9174
Total	**1,824.5923**	**85.3319**	**2,393.6917**	**4.5833**	**42.4790**	**310.8610**	**353.3401**	**11.7310**	**310.8368**	**322.5678**	**32,492.9250**	**75,465.7257**	**107,958.6507**	**32.7927**	**2.6579**	**109,570.5320**

	ROG	**NOx**	**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	Grading	Grading	1/1/2025	12/31/2025	5	261	
2	Trenching	Trenching	1/1/2026	7/4/2026	5	132	
3	Paving	Paving	7/5/2026	7/4/2027	5	261	
4	Building Construction	Building Construction	7/5/2027	12/31/2029	5	650	
5	Architectural Coating	Architectural Coating	1/1/2029	12/31/2029	5	261	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 59.44

Acres of Paving: 0

Residential Indoor: 1,184,625; Residential Outdoor: 394,875; Non-Residential Indoor: 577,500; Non-Residential Outdoor: 192,500; Striped

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Grading	Excavators	2	8.00	157	0.57
Grading	Graders	1	8.00	162	0.61
Grading	Off-Highway Trucks	1	8.00	250	0.57
Grading	Rollers	1	8.00	84	0.56
Grading	Rubber Tired Dozers	2	8.00	358	0.59
Grading	Scrapers	2	8.00	356	0.72
Grading	Tractors/Loaders/Backhoes	2	8.00	75	0.55
Trenching	Excavators	1	8.00	157	0.57
Trenching	Rough Terrain Forklifts	2	8.00	83	0.60
Trenching	Trenchers	1	8.00	69	0.75
Paving	Pavers	2	8.00	89	0.62
Paving	Paving Equipment	2	8.00	82	0.53

Paving	Rollers	2	8.00	84	0.56
Building Construction	Cranes	1	7.00	208	0.43
Building Construction	Forklifts	3	8.00	149	0.30
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	75	0.55
Building Construction	Welders	1	8.00	46	0.45
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Architectural Coating	1	114.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	569.00	126.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Trenching	4	10.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	11	28.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

3.2 Grading - 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					
Fugitive Dust					12.2857	0.0000	12.2857	6.6465	0.0000	6.6465			0.0000			0.0000

Off-Road	6.7396	60.2601	64.4072	0.1284		2.6408	2.6408		2.4295	2.4295		12,433.9306	12,433.9306	4.0214		12,534.4652
Total	**6.7396**	**60.2601**	**64.4072**	**0.1284**	**12.2857**	**2.6408**	**14.9265**	**6.6465**	**2.4295**	**9.0760**		**12,433.9306**	**12,433.9306**	**4.0214**		**12,534.4652**

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	0.0786	0.0443	0.5603	1.9500e-003	0.2300	1.4700e-003	0.2315	0.0610	1.3600e-003	0.0624		194.7433	194.7433	4.6400e-003		194.8592
Total	**0.0786**	**0.0443**	**0.5603**	**1.9500e-003**	**0.2300**	**1.4700e-003**	**0.2315**	**0.0610**	**1.3600e-003**	**0.0624**		**194.7433**	**194.7433**	**4.6400e-003**		**194.8592**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					4.7914	0.0000	4.7914	2.5922	0.0000	2.5922			0.0000			0.0000
Off-Road	6.7396	60.2601	64.4072	0.1284		2.6408	2.6408		2.4295	2.4295	0.0000	12,433.9305	12,433.9305	4.0214		12,534.4652
Total	**6.7396**	**60.2601**	**64.4072**	**0.1284**	**4.7914**	**2.6408**	**7.4322**	**2.5922**	**2.4295**	**5.0217**	**0.0000**	**12,433.9305**	**12,433.9305**	**4.0214**		**12,534.4652**

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	0.0786	0.0443	0.5603	1.9500e-003	0.2300	1.4700e-003	0.2315	0.0610	1.3600e-003	0.0624		194.7433	194.7433	4.6400e-003		194.8592
Total	**0.0786**	**0.0443**	**0.5603**	**1.9500e-003**	**0.2300**	**1.4700e-003**	**0.2315**	**0.0610**	**1.3600e-003**	**0.0624**		**194.7433**	**194.7433**	**4.6400e-003**		**194.8592**

3.3 Trenching - 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	0.9072	8.9244	13.9575	0.0208		0.4392	0.4392		0.4041	0.4041		2,011.0752	2,011.0752	0.6504		2,027.3358
Total	**0.9072**	**8.9244**	**13.9575**	**0.0208**		**0.4392**	**0.4392**		**0.4041**	**0.4041**		**2,011.0752**	**2,011.0752**	**0.6504**		**2,027.3358**

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	0.0269	0.0147	0.1882	6.7000e-004	0.0822	5.1000e-004	0.0827	0.0218	4.7000e-004	0.0223		67.0034	67.0034	1.5400e-003		67.0420
Total	**0.0269**	**0.0147**	**0.1882**	**6.7000e-004**	**0.0822**	**5.1000e-004**	**0.0827**	**0.0218**	**4.7000e-004**	**0.0223**		**67.0034**	**67.0034**	**1.5400e-003**		**67.0420**

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	0.9072	8.9244	13.9575	0.0208		0.4392	0.4392		0.4041	0.4041	0.0000	2,011.0752	2,011.0752	0.6504		2,027.3358
Total	**0.9072**	**8.9244**	**13.9575**	**0.0208**		**0.4392**	**0.4392**		**0.4041**	**0.4041**	**0.0000**	**2,011.0752**	**2,011.0752**	**0.6504**		**2,027.3358**

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	0.0269	0.0147	0.1882	6.7000e-004	0.0822	5.1000e-004	0.0827	0.0218	4.7000e-004	0.0223		67.0034	67.0034	1.5400e-003		67.0420
Total	**0.0269**	**0.0147**	**0.1882**	**6.7000e-004**	**0.0822**	**5.1000e-004**	**0.0827**	**0.0218**	**4.7000e-004**	**0.0223**		**67.0034**	**67.0034**	**1.5400e-003**		**67.0420**

3.4 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	1.4049	14.2639	17.8525	0.0251		0.7761	0.7761		0.7140	0.7140		2,426.6358	2,426.6358	0.7848		2,446.2564
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**1.4049**	**14.2639**	**17.8525**	**0.0251**		**0.7761**	**0.7761**		**0.7140**	**0.7140**		**2,426.6358**	**2,426.6358**	**0.7848**		**2,446.2564**

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	0.0403	0.0221	0.2823	1.0100e-003	0.1232	7.6000e-004	0.1240	0.0327	7.0000e-004	0.0334		100.5052	100.5052	2.3200e-003		100.5630
Total	**0.0403**	**0.0221**	**0.2823**	**1.0100e-003**	**0.1232**	**7.6000e-004**	**0.1240**	**0.0327**	**7.0000e-004**	**0.0334**		**100.5052**	**100.5052**	**2.3200e-003**		**100.5630**

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	1.4049	14.2639	17.8525	0.0251		0.7761	0.7761		0.7140	0.7140	0.0000	2,426.6358	2,426.6358	0.7848		2,446.2564
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**1.4049**	**14.2639**	**17.8525**	**0.0251**		**0.7761**	**0.7761**		**0.7140**	**0.7140**	**0.0000**	**2,426.6358**	**2,426.6358**	**0.7848**		**2,446.2564**

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	0.0403	0.0221	0.2823	1.0100e-003	0.1232	7.6000e-004	0.1240	0.0327	7.0000e-004	0.0334		100.5052	100.5052	2.3200e-003		100.5630
Total	**0.0403**	**0.0221**	**0.2823**	**1.0100e-003**	**0.1232**	**7.6000e-004**	**0.1240**	**0.0327**	**7.0000e-004**	**0.0334**		**100.5052**	**100.5052**	**2.3200e-003**		**100.5630**

3.4 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	1.4049	14.2639	17.8525	0.0251		0.7761	0.7761		0.7140	0.7140		2,426.6358	2,426.6358	0.7848		2,446.2564

Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**1.4049**	**14.2639**	**17.8525**	**0.0251**		**0.7761**	**0.7761**		**0.7140**	**0.7140**		**2,426.6358**	**2,426.6358**	**0.7848**		**2,446.2564**

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	0.0385	0.0206	0.2665	9.7000e-004	0.1232	7.2000e-004	0.1239	0.0327	6.7000e-004	0.0334		97.1401	97.1401	2.1700e-003		97.1943
Total	**0.0385**	**0.0206**	**0.2665**	**9.7000e-004**	**0.1232**	**7.2000e-004**	**0.1239**	**0.0327**	**6.7000e-004**	**0.0334**		**97.1401**	**97.1401**	**2.1700e-003**		**97.1943**

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	1.4049	14.2639	17.8525	0.0251		0.7761	0.7761		0.7140	0.7140	0.0000	2,426.6358	2,426.6358	0.7848		2,446.2564
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**1.4049**	**14.2639**	**17.8525**	**0.0251**		**0.7761**	**0.7761**		**0.7140**	**0.7140**	**0.0000**	**2,426.6358**	**2,426.6358**	**0.7848**		**2,446.2564**

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	0.0385	0.0206	0.2665	9.7000e-004	0.1232	7.2000e-004	0.1239	0.0327	6.7000e-004	0.0334		97.1401	97.1401	2.1700e-003		97.1943
Total	**0.0385**	**0.0206**	**0.2665**	**9.7000e-004**	**0.1232**	**7.2000e-004**	**0.1239**	**0.0327**	**6.7000e-004**	**0.0334**		**97.1401**	**97.1401**	**2.1700e-003**		**97.1943**

3.5 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	1.7438	15.3760	21.5644	0.0368		0.6562	0.6562		0.6147	0.6147		3,511.2516	3,511.2516	0.9097		3,533.9951
Total	**1.7438**	**15.3760**	**21.5644**	**0.0368**		**0.6562**	**0.6562**		**0.6147**	**0.6147**		**3,511.2516**	**3,511.2516**	**0.9097**		**3,533.9951**

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	0.2438	9.0189	2.6260	0.0319	0.8530	0.0101	0.8631	0.2455	9.6900e-003	0.2552		3,461.3012	3,461.3012	0.2238		3,466.8952
Worker	1.4617	0.7822	10.1073	0.0369	4.6742	0.0274	4.7016	1.2398	0.0252	1.2651		3,684.8479	3,684.8479	0.0823		3,686.9048
Total	**1.7056**	**9.8011**	**12.7333**	**0.0688**	**5.5272**	**0.0376**	**5.5647**	**1.4854**	**0.0349**	**1.5203**		**7,146.1491**	**7,146.1491**	**0.3060**		**7,153.8000**

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	1.7438	15.3760	21.5644	0.0368		0.6562	0.6562		0.6147	0.6147	0.0000	3,511.2516	3,511.2516	0.9097		3,533.9951
Total	**1.7438**	**15.3760**	**21.5644**	**0.0368**		**0.6562**	**0.6562**		**0.6147**	**0.6147**	**0.0000**	**3,511.2516**	**3,511.2516**	**0.9097**		**3,533.9951**

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	0.2438	9.0189	2.6260	0.0319	0.8530	0.0101	0.8631	0.2455	9.6900e-003	0.2552		3,461.3012	3,461.3012	0.2238		3,466.8952
Worker	1.4617	0.7822	10.1073	0.0369	4.6742	0.0274	4.7016	1.2398	0.0252	1.2651		3,684.8479	3,684.8479	0.0823		3,686.9048
Total	**1.7056**	**9.8011**	**12.7333**	**0.0688**	**5.5272**	**0.0376**	**5.5647**	**1.4854**	**0.0349**	**1.5203**		**7,146.1491**	**7,146.1491**	**0.3060**		**7,153.8000**

3.5 Building Construction - 2028

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	1.7438	15.3760	21.5644	0.0368		0.6562	0.6562		0.6147	0.6147		3,511.2516	3,511.2516	0.9097		3,533.9951
Total	**1.7438**	**15.3760**	**21.5644**	**0.0368**		**0.6562**	**0.6562**		**0.6147**	**0.6147**		**3,511.2516**	**3,511.2516**	**0.9097**		**3,533.9951**

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	0.2396	8.9137	2.6103	0.0317	0.8530	9.9500e-003	0.8629	0.2455	9.5000e-003	0.2551		3,445.7523	3,445.7523	0.2221		3,451.3034
Worker	1.3911	0.7330	9.5847	0.0358	4.6742	0.0254	4.6996	1.2398	0.0234	1.2632		3,572.9012	3,572.9012	0.0776		3,574.8404
Total	**1.6307**	**9.6467**	**12.1950**	**0.0675**	**5.5272**	**0.0354**	**5.5625**	**1.4854**	**0.0329**	**1.5182**		**7,018.6535**	**7,018.6535**	**0.2996**		**7,026.1438**

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	1.7438	15.3760	21.5644	0.0368		0.6562	0.6562		0.6147	0.6147	0.0000	3,511.2516	3,511.2516	0.9097		3,533.9951
Total	**1.7438**	**15.3760**	**21.5644**	**0.0368**		**0.6562**	**0.6562**		**0.6147**	**0.6147**	**0.0000**	**3,511.2516**	**3,511.2516**	**0.9097**		**3,533.9951**

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	0.2396	8.9137	2.6103	0.0317	0.8530	9.9500e-003	0.8629	0.2455	9.5000e-003	0.2551		3,445.7523	3,445.7523	0.2221		3,451.3034
Worker	1.3911	0.7330	9.5847	0.0358	4.6742	0.0254	4.6996	1.2398	0.0234	1.2632		3,572.9012	3,572.9012	0.0776		3,574.8404
Total	**1.6307**	**9.6467**	**12.1950**	**0.0675**	**5.5272**	**0.0354**	**5.5625**	**1.4854**	**0.0329**	**1.5182**		**7,018.6535**	**7,018.6535**	**0.2996**		**7,026.1438**

3.5 Building Construction - 2029

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	1.7438	15.3760	21.5644	0.0368		0.6562	0.6562		0.6147	0.6147		3,511.2516	3,511.2516	0.9097		3,533.9951

Total	**1.7438**	**15.3760**	**21.5644**	**0.0368**		**0.6562**	**0.6562**		**0.6147**	**0.6147**		**3,511.2516**	**3,511.2516**	**0.9097**		**3,533.9951**

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	0.2354	8.8054	2.5924	0.0315	0.8530	9.7200e-003	0.8627	0.2455	9.2800e-003	0.2548		3,430.5142	3,430.5142	0.2208		3,436.0346
Worker	1.3149	0.6877	9.0889	0.0348	4.6742	0.0236	4.6978	1.2398	0.0217	1.2615		3,474.5487	3,474.5487	0.0732		3,476.3789
Total	**1.5504**	**9.4931**	**11.6813**	**0.0664**	**5.5272**	**0.0333**	**5.5605**	**1.4854**	**0.0310**	**1.5163**		**6,905.0628**	**6,905.0628**	**0.2940**		**6,912.4135**

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	1.7438	15.3760	21.5644	0.0368		0.6562	0.6562		0.6147	0.6147	0.0000	3,511.2516	3,511.2516	0.9097		3,533.9951
Total	**1.7438**	**15.3760**	**21.5644**	**0.0368**		**0.6562**	**0.6562**		**0.6147**	**0.6147**	**0.0000**	**3,511.2516**	**3,511.2516**	**0.9097**		**3,533.9951**

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	0.2354	8.8054	2.5924	0.0315	0.8530	9.7200e-003	0.8627	0.2455	9.2800e-003	0.2548		3,430.5142	3,430.5142	0.2208		3,436.0346
Worker	1.3149	0.6877	9.0889	0.0348	4.6742	0.0236	4.6978	1.2398	0.0217	1.2615		3,474.5487	3,474.5487	0.0732		3,476.3789
Total	**1.5504**	**9.4931**	**11.6813**	**0.0664**	**5.5272**	**0.0333**	**5.5605**	**1.4854**	**0.0310**	**1.5163**		**6,905.0628**	**6,905.0628**	**0.2940**		**6,912.4135**

3.6 Architectural Coating - 2029

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	46.9394					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1709	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515		281.4481	281.4481	0.0154		281.8319
Total	**47.1102**	**1.1455**	**1.8091**	**2.9700e-003**		**0.0515**	**0.0515**		**0.0515**	**0.0515**		**281.4481**	**281.4481**	**0.0154**		**281.8319**

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	0.2634	0.1378	1.8210	6.9800e-003	0.9365	4.7200e-003	0.9412	0.2484	4.3500e-003	0.2528		696.1310	696.1310	0.0147		696.4977
Total	**0.2634**	**0.1378**	**1.8210**	**6.9800e-003**	**0.9365**	**4.7200e-003**	**0.9412**	**0.2484**	**4.3500e-003**	**0.2528**		**696.1310**	**696.1310**	**0.0147**		**696.4977**

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	46.9394					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1709	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515	0.0000	281.4481	281.4481	0.0154		281.8319
Total	**47.1102**	**1.1455**	**1.8091**	**2.9700e-003**		**0.0515**	**0.0515**		**0.0515**	**0.0515**	**0.0000**	**281.4481**	**281.4481**	**0.0154**		**281.8319**

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	0.2634	0.1378	1.8210	6.9800e-003	0.9365	4.7200e-003	0.9412	0.2484	4.3500e-003	0.2528		696.1310	696.1310	0.0147		696.4977
Total	**0.2634**	**0.1378**	**1.8210**	**6.9800e-003**	**0.9365**	**4.7200e-003**	**0.9412**	**0.2484**	**4.3500e-003**	**0.2528**		**696.1310**	**696.1310**	**0.0147**		**696.4977**

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	11.3182	45.3284	132.5452	0.5486	42.4790	0.3417	42.8208	11.7310	0.3175	12.0485		56,181.4843	56,181.4843	2.6173		56,246.9174
Unmitigated	11.3182	45.3284	132.5452	0.5486	42.4790	0.3417	42.8208	11.7310	0.3175	12.0485		56,181.4843	56,181.4843	2.6173		56,246.9174

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Condo/Townhouse	1,655.85	1,615.95	1379.40	4,598,915	4,598,915
Condo/Townhouse	1,743.00	1,701.00	1452.00	4,840,963	4,840,963
General Light Industry	1,742.50	330.00	170.00	3,842,285	3,842,285
Office Park	1,541.70	221.40	102.60	2,875,919	2,875,919
Total	6,683.05	3,868.35	3,104.00	16,158,082	16,158,082

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
Condo/Townhouse	10.80	7.30	7.50	41.60	18.80	39.60	86	11	3
General Light Industry	9.50	7.30	7.30	59.00	28.00	13.00	92	5	3
Office Park	9.50	7.30	7.30	33.00	48.00	19.00	82	15	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Office Park	0.616428	0.037185	0.177402	0.097684	0.012090	0.005279	0.017663	0.025476	0.001931	0.001677	0.005617	0.000785	0.000782
General Light Industry	0.616428	0.037185	0.177402	0.097684	0.012090	0.005279	0.017663	0.025476	0.001931	0.001677	0.005617	0.000785	0.000782
Condo/Townhouse	0.616428	0.037185	0.177402	0.097684	0.012090	0.005279	0.017663	0.025476	0.001931	0.001677	0.005617	0.000785	0.000782
Condo/Townhouse	0.616428	0.037185	0.177402	0.097684	0.012090	0.005279	0.017663	0.025476	0.001931	0.001677	0.005617	0.000785	0.000782

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.5106	4.4807	2.7172	0.0279		0.3528	0.3528		0.3528	0.3528		5,570.1953	5,570.1953	0.1068	0.1021	5,603.2962
NaturalGas Unmitigated	0.5106	4.4807	2.7172	0.0279		0.3528	0.3528		0.3528	0.3528		5,570.1953	5,570.1953	0.1068	0.1021	5,603.2962

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	13348.2	0.1440	1.2301	0.5235	7.8500e-003		0.0995	0.0995		0.0995	0.0995		1,570.3716	1,570.3716	0.0301	0.0288	1,579.7035
Condo/Townhouse	14050.7	0.1515	1.2949	0.5510	8.2700e-003		0.1047	0.1047		0.1047	0.1047		1,653.0227	1,653.0227	0.0317	0.0303	1,662.8458
General Light Industry	7938.36	0.0856	0.7783	0.6538	4.6700e-003		0.0592	0.0592		0.0592	0.0592		933.9243	933.9243	0.0179	0.0171	939.4741
Office Park	12009.5	0.1295	1.1774	0.9890	7.0600e-003		0.0895	0.0895		0.0895	0.0895		1,412.8767	1,412.8767	0.0271	0.0259	1,421.2727
Total	**0.00003**	**0.5106**	**4.4807**	**2.7172**	**0.0279**		**0.3528**	**0.3528**		**0.3528**	**0.3528**		**5,570.1953**	**5,570.1953**	**0.1068**	**0.1021**	**5,603.2962**

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	13.3482	0.1440	1.2301	0.5235	7.8500e-003		0.0995	0.0995		0.0995	0.0995		1,570.3716	1,570.3716	0.0301	0.0288	1,579.7035
Condo/Townhouse	14.0507	0.1515	1.2949	0.5510	8.2700e-003		0.1047	0.1047		0.1047	0.1047		1,653.0227	1,653.0227	0.0317	0.0303	1,662.8458
General Light Industry	7.93836	0.0856	0.7783	0.6538	4.6700e-003		0.0592	0.0592		0.0592	0.0592		933.9243	933.9243	0.0179	0.0171	939.4741
Office Park	12.0095	0.1295	1.1774	0.9890	7.0600e-003		0.0895	0.0895		0.0895	0.0895		1,412.8767	1,412.8767	0.0271	0.0259	1,421.2727
Total	**0.00003**	**0.5106**	**4.4807**	**2.7172**	**0.0279**		**0.3528**	**0.3528**		**0.3528**	**0.3528**		**5,570.1953**	**5,570.1953**	**0.1068**	**0.1021**	**5,603.2962**

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	1,812.7635	35.5229	2,258.4292	4.0069		310.1665	310.1665		310.1665	310.1665	32,492.9250	13,714.0462	46,206.9711	30.0686	2.5558	47,720.3184
Unmitigated	1,812.7635	35.5229	2,258.4292	4.0069		310.1665	310.1665		310.1665	310.1665	32,492.9250	13,714.0462	46,206.9711	30.0686	2.5558	47,720.3184

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	20.7580					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	1,790.5621	34.9676	2,210.2544	4.0044		309.8987	309.8987		309.8987	309.8987	32,492.9250	13,627.0588	46,119.9838	29.9856	2.5558	47,631.2557
Landscaping	1.4434	0.5553	48.1748	2.5500e-003		0.2678	0.2678		0.2678	0.2678		86.9874	86.9874	0.0830		89.0627
Total	**1,812.7635**	**35.5229**	**2,258.4292**	**4.0069**		**310.1665**	**310.1665**		**310.1665**	**310.1665**	**32,492.9250**	**13,714.0462**	**46,206.9711**	**30.0686**	**2.5558**	**47,720.3184**

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	20.7580					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000

Hearth	1,790.5621	34.9676	2,210.2544	4.0044		309.8987	309.8987		309.8987	309.8987	32,492.9250	13,627.0588	46,119.9838	29.9856	2.5558	47,631.2557
Landscaping	1.4434	0.5553	48.1748	2.5500e-003		0.2678	0.2678		0.2678	0.2678		86.9874	86.9874	0.0830		89.0627
Total	**1,812.7635**	**35.5229**	**2,258.4292**	**4.0069**		**310.1665**	**310.1665**		**310.1665**	**310.1665**	**32,492.9250**	**13,714.0462**	**46,206.9711**	**30.0686**	**2.5558**	**47,720.3184**

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

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

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

Boilers

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

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

Stone Creek Phase 2020 Scenario B

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	5.98	Acre	5.98	0.00	0
Condo/Townhouse	2,725.00	Dwelling Unit	87.22	2,725,000.00	7794
Strip Mall	24.00	1000sqft	0.55	24,000.00	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					
CO2 Intensity (lb/MWhr)	0	**CH4 Intensity (lb/MWhr)**	0	**N2O Intensity (lb/MWhr)**	0

1.3 User Entered Comments & Non-Default Data

Trips and VMT -

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	250.00	150.00
tblArchitecturalCoating	EF_Nonresidential_Interior	250.00	100.00
tblArchitecturalCoating	EF_Parking	250.00	0.00
tblArchitecturalCoating	EF_Residential_Exterior	250.00	150.00
tblArchitecturalCoating	EF_Residential_Interior	250.00	100.00
tblAreaCoating	Area_EF_Parking	250	0

tblAreaCoating	Area_Nonresidential_Exterior	12000	0
tblAreaCoating	Area_Nonresidential_Interior	36000	0
tblAreaCoating	Area_Residential_Exterior	1839375	0
tblAreaCoating	Area_Residential_Interior	5518125	0
tblAreaMitigation	UseLowVOCPaintNonresidentialExteriorValue	250	0
tblAreaMitigation	UseLowVOCPaintNonresidentialInteriorValue	250	0
tblAreaMitigation	UseLowVOCPaintResidentialExteriorValue	250	0
tblAreaMitigation	UseLowVOCPaintResidentialInteriorValue	250	0
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	40	15
tblConstructionPhase	NumDays	110.00	260.00
tblConstructionPhase	NumDays	1,550.00	650.00
tblConstructionPhase	NumDays	155.00	261.00
tblConstructionPhase	NumDays	110.00	261.00
tblGrading	AcresOfGrading	652.50	93.20
tblLandUse	GreenSpaceAllowEdit	1.00	0.00
tblLandUse	GreenSpaceSquareFeet	260,488.80	0.00
tblLandUse	LandUseSquareFeet	260,488.80	0.00
tblLandUse	LotAcreage	170.31	87.22
tblOffRoadEquipment	HorsePower	231.00	208.00
tblOffRoadEquipment	HorsePower	158.00	157.00
tblOffRoadEquipment	HorsePower	89.00	149.00
tblOffRoadEquipment	HorsePower	187.00	162.00
tblOffRoadEquipment	HorsePower	130.00	89.00
tblOffRoadEquipment	HorsePower	132.00	82.00
tblOffRoadEquipment	HorsePower	80.00	84.00
tblOffRoadEquipment	HorsePower	247.00	358.00
tblOffRoadEquipment	HorsePower	367.00	356.00
tblOffRoadEquipment	HorsePower	97.00	75.00
tblOffRoadEquipment	HorsePower	97.00	75.00
tblOffRoadEquipment	HorsePower	158.00	157.00

tblOffRoadEquipment	HorsePower	402.00	250.00
tblOffRoadEquipment	HorsePower	80.00	84.00
tblOffRoadEquipment	HorsePower	100.00	83.00
tblOffRoadEquipment	HorsePower	78.00	69.00
tblOffRoadEquipment	LoadFactor	0.29	0.43
tblOffRoadEquipment	LoadFactor	0.38	0.57
tblOffRoadEquipment	LoadFactor	0.20	0.30
tblOffRoadEquipment	LoadFactor	0.41	0.61
tblOffRoadEquipment	LoadFactor	0.42	0.62
tblOffRoadEquipment	LoadFactor	0.36	0.53
tblOffRoadEquipment	LoadFactor	0.38	0.56
tblOffRoadEquipment	LoadFactor	0.40	0.59
tblOffRoadEquipment	LoadFactor	0.48	0.72
tblOffRoadEquipment	LoadFactor	0.37	0.55
tblOffRoadEquipment	LoadFactor	0.37	0.55
tblOffRoadEquipment	LoadFactor	0.38	0.57
tblOffRoadEquipment	LoadFactor	0.38	0.57
tblOffRoadEquipment	LoadFactor	0.38	0.56
tblOffRoadEquipment	LoadFactor	0.40	0.60
tblOffRoadEquipment	LoadFactor	0.50	0.75
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblProjectCharacteristics	OperationalYear	2018	2030

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	6.8181	60.3044	64.9675	0.1304	12.6529	2.6423	15.2951	6.7224	2.4309	9.1532	0.0000	12,628.6738	12,628.6738	4.0260	0.0000	12,729.3243
2026	1.4452	14.2860	18.1348	0.0261	0.1232	0.7768	0.9000	0.0327	0.7147	0.7474	0.0000	2,527.1410	2,527.1410	0.7871	0.0000	2,546.8194
2027	7.3755	39.1998	62.7061	0.2394	18.1801	0.7768	18.9550	4.8674	0.7247	5.5921	0.0000	24,372.8251	24,372.8251	1.7185	0.0000	24,415.7871
2028	7.1211	38.7831	60.8601	0.2351	18.1801	0.7675	18.9476	4.8674	0.7178	5.5852	0.0000	23,948.8377	23,948.8377	1.6982	0.0000	23,991.2916
2029	156.4484	39.9944	67.2042	0.2583	21.4167	0.8285	22.2452	5.7259	0.7780	6.5039	0.0000	26,260.0180	26,260.0180	1.7462	0.0000	26,303.6740
Maximum	**156.4484**	**60.3044**	**67.2042**	**0.2583**	**21.4167**	**2.6423**	**22.2452**	**6.7224**	**2.4309**	**9.1532**	**0.0000**	**26,260.0180**	**26,260.0180**	**4.0260**	**0.0000**	**26,303.6740**

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	6.8181	60.3044	64.9675	0.1304	5.0749	2.6423	7.7172	2.6589	2.4309	5.0898	0.0000	12,628.6738	12,628.6738	4.0260	0.0000	12,729.3243
2026	1.4452	14.2860	18.1348	0.0261	0.1232	0.7768	0.9000	0.0327	0.7147	0.7474	0.0000	2,527.1410	2,527.1410	0.7871	0.0000	2,546.8194
2027	7.3755	39.1998	62.7061	0.2394	18.1801	0.7768	18.9550	4.8674	0.7247	5.5921	0.0000	24,372.8251	24,372.8251	1.7185	0.0000	24,415.7871
2028	7.1211	38.7831	60.8601	0.2351	18.1801	0.7675	18.9476	4.8674	0.7178	5.5852	0.0000	23,948.8376	23,948.8376	1.6982	0.0000	23,991.2916
2029	156.4484	39.9944	67.2042	0.2583	21.4167	0.8285	22.2452	5.7259	0.7780	6.5039	0.0000	26,260.0180	26,260.0180	1.7462	0.0000	26,303.6740
Maximum	**156.4484**	**60.3044**	**67.2042**	**0.2583**	**21.4167**	**2.6423**	**22.2452**	**5.7259**	**2.4309**	**6.5039**	**0.0000**	**26,260.0180**	**26,260.0180**	**4.0260**	**0.0000**	**26,303.6740**

	ROG	**NOx**	**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**	**10.74**	**0.00**	**9.93**	**18.29**	**0.00**	**14.73**	**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	4,235.8618	84.0265	5,372.0397	9.3383		723.0195	723.0195		723.0195	723.0195	75,677.9662	32,143.0469	107,821.0131	70.2239	5.9526	111,350.4983
Energy	1.3780	11.7762	5.0171	0.0752		0.9520	0.9520		0.9520	0.9520		15,032.2844	15,032.2844	0.2881	0.2756	15,121.6137
Mobile	18.9862	76.0205	220.9293	0.9126	99.8904	0.5691	100.4595	26.6863	0.5287	27.2150		93,472.4158	93,472.4158	4.3612		93,581.4462
Total	**4,256.2260**	**171.8232**	**5,597.9861**	**10.3261**	**99.8904**	**724.5406**	**824.4310**	**26.6863**	**724.5002**	**751.1865**	**75,677.9662**	**140,647.7470**	**216,325.7133**	**74.8732**	**6.2282**	**220,053.5581**

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	4,235.8618	84.0265	5,372.0397	9.3383		723.0195	723.0195		723.0195	723.0195	75,677.9662	32,143.0469	107,821.0131	70.2239	5.9526	111,350.4983
Energy	1.3780	11.7762	5.0171	0.0752		0.9520	0.9520		0.9520	0.9520		15,032.2844	15,032.2844	0.2881	0.2756	15,121.6137
Mobile	18.9862	76.0205	220.9293	0.9126	99.8904	0.5691	100.4595	26.6863	0.5287	27.2150		93,472.4158	93,472.4158	4.3612		93,581.4462
Total	**4,256.2260**	**171.8232**	**5,597.9861**	**10.3261**	**99.8904**	**724.5406**	**824.4310**	**26.6863**	**724.5002**	**751.1865**	**75,677.9662**	**140,647.7470**	**216,325.7133**	**74.8732**	**6.2282**	**220,053.5581**

	ROG	**NOx**	**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	Grading	Grading	1/1/2025	12/31/2025	5	261	
2	Trenching	Trenching	1/1/2026	7/4/2026	5	132	
3	Paving	Paving	7/5/2026	7/4/2027	5	261	
4	Building Construction	Building Construction	7/5/2027	12/31/2029	5	650	
5	Architectural Coating	Architectural Coating	1/1/2029	12/30/2029	5	260	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 93.2

Acres of Paving: 0

Residential Indoor: 5,518,125; Residential Outdoor: 1,839,375; Non-Residential Indoor: 36,000; Non-Residential Outdoor: 12,000; Striped

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Grading	Excavators	2	8.00	157	0.57
Grading	Graders	1	8.00	162	0.61
Grading	Off-Highway Trucks	1	8.00	250	0.57
Grading	Rollers	1	8.00	84	0.56
Grading	Rubber Tired Dozers	2	8.00	358	0.59
Grading	Scrapers	2	8.00	356	0.72
Grading	Tractors/Loaders/Backhoes	2	8.00	75	0.55
Trenching	Excavators	1	8.00	157	0.57
Trenching	Rough Terrain Forklifts	2	8.00	83	0.60
Trenching	Trenchers	1	8.00	69	0.75
Paving	Pavers	2	8.00	89	0.62
Paving	Paving Equipment	2	8.00	82	0.53
Paving	Rollers	2	8.00	84	0.56

Building Construction	Cranes	1	7.00	208	0.43
Building Construction	Forklifts	3	8.00	149	0.30
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	75	0.55
Building Construction	Welders	1	8.00	46	0.45
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Architectural Coating	1	394.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	1,970.00	295.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Trenching	4	10.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	11	28.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

3.2 Grading - 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					
Fugitive Dust					12.4229	0.0000	12.4229	6.6613	0.0000	6.6613			0.0000			0.0000
Off-Road	6.7396	60.2601	64.4072	0.1284		2.6408	2.6408		2.4295	2.4295		12,433.9306	12,433.9306	4.0214		12,534.4652

Total	**6.7396**	**60.2601**	**64.4072**	**0.1284**	**12.4229**	**2.6408**	**15.0636**	**6.6613**	**2.4295**	**9.0909**		**12,433.93 06**	**12,433.930 6**	**4.0214**		**12,534.46 52**

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	0.0786	0.0443	0.5603	1.9500e-003	0.2300	1.4700e-003	0.2315	0.0610	1.3600e-003	0.0624		194.7433	194.7433	4.6400e-003		194.8592
Total	**0.0786**	**0.0443**	**0.5603**	**1.9500e-003**	**0.2300**	**1.4700e-003**	**0.2315**	**0.0610**	**1.3600e-003**	**0.0624**		**194.7433**	**194.7433**	**4.6400e-003**		**194.8592**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					4.8449	0.0000	4.8449	2.5979	0.0000	2.5979			0.0000			0.0000
Off-Road	6.7396	60.2601	64.4072	0.1284		2.6408	2.6408		2.4295	2.4295	0.0000	12,433.93 05	12,433.930 5	4.0214		12,534.46 52
Total	**6.7396**	**60.2601**	**64.4072**	**0.1284**	**4.8449**	**2.6408**	**7.4857**	**2.5979**	**2.4295**	**5.0274**	**0.0000**	**12,433.93 05**	**12,433.930 5**	**4.0214**		**12,534.46 52**

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	0.0786	0.0443	0.5603	1.9500e-003	0.2300	1.4700e-003	0.2315	0.0610	1.3600e-003	0.0624		194.7433	194.7433	4.6400e-003		194.8592
Total	**0.0786**	**0.0443**	**0.5603**	**1.9500e-003**	**0.2300**	**1.4700e-003**	**0.2315**	**0.0610**	**1.3600e-003**	**0.0624**		**194.7433**	**194.7433**	**4.6400e-003**		**194.8592**

3.3 Trenching - 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	0.9072	8.9244	13.9575	0.0208		0.4392	0.4392		0.4041	0.4041		2,011.0752	2,011.0752	0.6504		2,027.3358
Total	**0.9072**	**8.9244**	**13.9575**	**0.0208**		**0.4392**	**0.4392**		**0.4041**	**0.4041**		**2,011.0752**	**2,011.0752**	**0.6504**		**2,027.3358**

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	0.0269	0.0147	0.1882	6.7000e-004	0.0822	5.1000e-004	0.0827	0.0218	4.7000e-004	0.0223		67.0034	67.0034	1.5400e-003		67.0420
Total	**0.0269**	**0.0147**	**0.1882**	**6.7000e-004**	**0.0822**	**5.1000e-004**	**0.0827**	**0.0218**	**4.7000e-004**	**0.0223**		**67.0034**	**67.0034**	**1.5400e-003**		**67.0420**

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	0.9072	8.9244	13.9575	0.0208		0.4392	0.4392		0.4041	0.4041	0.0000	2,011.0752	2,011.0752	0.6504		2,027.3358
Total	**0.9072**	**8.9244**	**13.9575**	**0.0208**		**0.4392**	**0.4392**		**0.4041**	**0.4041**	**0.0000**	**2,011.0752**	**2,011.0752**	**0.6504**		**2,027.3358**

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	0.0269	0.0147	0.1882	6.7000e-004	0.0822	5.1000e-004	0.0827	0.0218	4.7000e-004	0.0223		67.0034	67.0034	1.5400e-003		67.0420
Total	**0.0269**	**0.0147**	**0.1882**	**6.7000e-004**	**0.0822**	**5.1000e-004**	**0.0827**	**0.0218**	**4.7000e-004**	**0.0223**		**67.0034**	**67.0034**	**1.5400e-003**		**67.0420**

3.4 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	1.4049	14.2639	17.8525	0.0251		0.7761	0.7761		0.7140	0.7140		2,426.6358	2,426.6358	0.7848		2,446.2564
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**1.4049**	**14.2639**	**17.8525**	**0.0251**		**0.7761**	**0.7761**		**0.7140**	**0.7140**		**2,426.6358**	**2,426.6358**	**0.7848**		**2,446.2564**

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	0.0403	0.0221	0.2823	1.0100e-003	0.1232	7.6000e-004	0.1240	0.0327	7.0000e-004	0.0334		100.5052	100.5052	2.3200e-003		100.5630
Total	**0.0403**	**0.0221**	**0.2823**	**1.0100e-003**	**0.1232**	**7.6000e-004**	**0.1240**	**0.0327**	**7.0000e-004**	**0.0334**		**100.5052**	**100.5052**	**2.3200e-003**		**100.5630**

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	1.4049	14.2639	17.8525	0.0251		0.7761	0.7761		0.7140	0.7140	0.0000	2,426.6358	2,426.6358	0.7848		2,446.2564
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**1.4049**	**14.2639**	**17.8525**	**0.0251**		**0.7761**	**0.7761**		**0.7140**	**0.7140**	**0.0000**	**2,426.6358**	**2,426.6358**	**0.7848**		**2,446.2564**

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	0.0403	0.0221	0.2823	1.0100e-003	0.1232	7.6000e-004	0.1240	0.0327	7.0000e-004	0.0334		100.5052	100.5052	2.3200e-003		100.5630
Total	**0.0403**	**0.0221**	**0.2823**	**1.0100e-003**	**0.1232**	**7.6000e-004**	**0.1240**	**0.0327**	**7.0000e-004**	**0.0334**		**100.5052**	**100.5052**	**2.3200e-003**		**100.5630**

3.4 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	1.4049	14.2639	17.8525	0.0251		0.7761	0.7761		0.7140	0.7140		2,426.6358	2,426.6358	0.7848		2,446.2564

Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**1.4049**	**14.2639**	**17.8525**	**0.0251**		**0.7761**	**0.7761**		**0.7140**	**0.7140**		**2,426.6358**	**2,426.6358**	**0.7848**		**2,446.2564**

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	0.0385	0.0206	0.2665	9.7000e-004	0.1232	7.2000e-004	0.1239	0.0327	6.7000e-004	0.0334		97.1401	97.1401	2.1700e-003		97.1943
Total	**0.0385**	**0.0206**	**0.2665**	**9.7000e-004**	**0.1232**	**7.2000e-004**	**0.1239**	**0.0327**	**6.7000e-004**	**0.0334**		**97.1401**	**97.1401**	**2.1700e-003**		**97.1943**

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	1.4049	14.2639	17.8525	0.0251		0.7761	0.7761		0.7140	0.7140	0.0000	2,426.6358	2,426.6358	0.7848		2,446.2564
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**1.4049**	**14.2639**	**17.8525**	**0.0251**		**0.7761**	**0.7761**		**0.7140**	**0.7140**	**0.0000**	**2,426.6358**	**2,426.6358**	**0.7848**		**2,446.2564**

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	0.0385	0.0206	0.2665	9.7000e-004	0.1232	7.2000e-004	0.1239	0.0327	6.7000e-004	0.0334		97.1401	97.1401	2.1700e-003		97.1943
Total	**0.0385**	**0.0206**	**0.2665**	**9.7000e-004**	**0.1232**	**7.2000e-004**	**0.1239**	**0.0327**	**6.7000e-004**	**0.0334**		**97.1401**	**97.1401**	**2.1700e-003**		**97.1943**

3.5 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	1.7438	15.3760	21.5644	0.0368		0.6562	0.6562		0.6147	0.6147		3,511.2516	3,511.2516	0.9097		3,533.9951
Total	**1.7438**	**15.3760**	**21.5644**	**0.0368**		**0.6562**	**0.6562**		**0.6147**	**0.6147**		**3,511.2516**	**3,511.2516**	**0.9097**		**3,533.9951**

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	0.5709	21.1157	6.1481	0.0746	1.9970	0.0238	2.0208	0.5749	0.0227	0.5976		8,103.8402	8,103.8402	0.5239		8,116.9372
Worker	5.0608	2.7082	34.9936	0.1279	16.1831	0.0950	16.2781	4.2925	0.0874	4.3799		12,757.7333	12,757.7333	0.2849		12,764.8548
Total	**5.6317**	**23.8238**	**41.1417**	**0.2025**	**18.1801**	**0.1187**	**18.2988**	**4.8674**	**0.1101**	**4.9775**		**20,861.5735**	**20,861.5735**	**0.8087**		**20,881.7920**

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	1.7438	15.3760	21.5644	0.0368		0.6562	0.6562		0.6147	0.6147	0.0000	3,511.2516	3,511.2516	0.9097		3,533.9951
Total	**1.7438**	**15.3760**	**21.5644**	**0.0368**		**0.6562**	**0.6562**		**0.6147**	**0.6147**	**0.0000**	**3,511.2516**	**3,511.2516**	**0.9097**		**3,533.9951**

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	0.5709	21.1157	6.1481	0.0746	1.9970	0.0238	2.0208	0.5749	0.0227	0.5976		8,103.8402	8,103.8402	0.5239		8,116.9372
Worker	5.0608	2.7082	34.9936	0.1279	16.1831	0.0950	16.2781	4.2925	0.0874	4.3799		12,757.7333	12,757.7333	0.2849		12,764.8548
Total	**5.6317**	**23.8238**	**41.1417**	**0.2025**	**18.1801**	**0.1187**	**18.2988**	**4.8674**	**0.1101**	**4.9775**		**20,861.5735**	**20,861.5735**	**0.8087**		**20,881.7920**

3.5 Building Construction - 2028

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	1.7438	15.3760	21.5644	0.0368		0.6562	0.6562		0.6147	0.6147		3,511.2516	3,511.2516	0.9097		3,533.9951
Total	**1.7438**	**15.3760**	**21.5644**	**0.0368**		**0.6562**	**0.6562**		**0.6147**	**0.6147**		**3,511.2516**	**3,511.2516**	**0.9097**		**3,533.9951**

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	0.5609	20.8694	6.1113	0.0742	1.9970	0.0233	2.0203	0.5749	0.0223	0.5971		8,067.4360	8,067.4360	0.5199		8,080.4327
Worker	4.8164	2.5378	33.1844	0.1240	16.1831	0.0880	16.2710	4.2925	0.0809	4.3734		12,370.1501	12,370.1501	0.2686		12,376.8638
Total	**5.3773**	**23.4071**	**39.2957**	**0.1982**	**18.1801**	**0.1112**	**18.2913**	**4.8674**	**0.1032**	**4.9706**		**20,437.5861**	**20,437.5861**	**0.7884**		**20,457.2965**

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	1.7438	15.3760	21.5644	0.0368		0.6562	0.6562		0.6147	0.6147	0.0000	3,511.2516	3,511.2516	0.9097		3,533.9951
Total	**1.7438**	**15.3760**	**21.5644**	**0.0368**		**0.6562**	**0.6562**		**0.6147**	**0.6147**	**0.0000**	**3,511.2516**	**3,511.2516**	**0.9097**		**3,533.9951**

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	0.5609	20.8694	6.1113	0.0742	1.9970	0.0233	2.0203	0.5749	0.0223	0.5971		8,067.4360	8,067.4360	0.5199		8,080.4327
Worker	4.8164	2.5378	33.1844	0.1240	16.1831	0.0880	16.2710	4.2925	0.0809	4.3734		12,370.1501	12,370.1501	0.2686		12,376.8638
Total	**5.3773**	**23.4071**	**39.2957**	**0.1982**	**18.1801**	**0.1112**	**18.2913**	**4.8674**	**0.1032**	**4.9706**		**20,437.5861**	**20,437.5861**	**0.7884**		**20,457.2965**

3.5 Building Construction - 2029

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	1.7438	15.3760	21.5644	0.0368		0.6562	0.6562		0.6147	0.6147		3,511.2516	3,511.2516	0.9097		3,533.9951

Total	**1.7438**	**15.3760**	**21.5644**	**0.0368**		**0.6562**	**0.6562**		**0.6147**	**0.6147**		**3,511.2516**	**3,511.2516**	**0.9097**		**3,533.9951**

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	0.5512	20.6157	6.0695	0.0738	1.9970	0.0228	2.0198	0.5749	0.0217	0.5966		8,031.7594	8,031.7594	0.5170		8,044.6841
Worker	4.5525	2.3810	31.4676	0.1206	16.1831	0.0817	16.2647	4.2925	0.0751	4.3676		12,029.6325	12,029.6325	0.2535		12,035.9690
Total	**5.1037**	**22.9967**	**37.5371**	**0.1944**	**18.1801**	**0.1044**	**18.2845**	**4.8674**	**0.0969**	**4.9642**		**20,061.3919**	**20,061.3919**	**0.7705**		**20,080.6532**

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	1.7438	15.3760	21.5644	0.0368		0.6562	0.6562		0.6147	0.6147	0.0000	3,511.2516	3,511.2516	0.9097		3,533.9951
Total	**1.7438**	**15.3760**	**21.5644**	**0.0368**		**0.6562**	**0.6562**		**0.6147**	**0.6147**	**0.0000**	**3,511.2516**	**3,511.2516**	**0.9097**		**3,533.9951**

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	0.5512	20.6157	6.0695	0.0738	1.9970	0.0228	2.0198	0.5749	0.0217	0.5966		8,031.7594	8,031.7594	0.5170		8,044.6841
Worker	4.5525	2.3810	31.4676	0.1206	16.1831	0.0817	16.2647	4.2925	0.0751	4.3676		12,029.6325	12,029.6325	0.2535		12,035.9690
Total	**5.1037**	**22.9967**	**37.5371**	**0.1944**	**18.1801**	**0.1044**	**18.2845**	**4.8674**	**0.0969**	**4.9642**		**20,061.3919**	**20,061.3919**	**0.7705**		**20,080.6532**

3.6 Architectural Coating - 2029

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	148.5194					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1709	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515		281.4481	281.4481	0.0154		281.8319
Total	**148.6903**	**1.1455**	**1.8091**	**2.9700e-003**		**0.0515**	**0.0515**		**0.0515**	**0.0515**		**281.4481**	**281.4481**	**0.0154**		**281.8319**

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	0.9105	0.4762	6.2935	0.0241	3.2366	0.0163	3.2530	0.8585	0.0150	0.8735		2,405.9265	2,405.9265	0.0507		2,407.1938
Total	**0.9105**	**0.4762**	**6.2935**	**0.0241**	**3.2366**	**0.0163**	**3.2530**	**0.8585**	**0.0150**	**0.8735**		**2,405.9265**	**2,405.9265**	**0.0507**		**2,407.1938**

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	148.5194					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1709	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515	0.0000	281.4481	281.4481	0.0154		281.8319
Total	**148.6903**	**1.1455**	**1.8091**	**2.9700e-003**		**0.0515**	**0.0515**		**0.0515**	**0.0515**	**0.0000**	**281.4481**	**281.4481**	**0.0154**		**281.8319**

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	0.9105	0.4762	6.2935	0.0241	3.2366	0.0163	3.2530	0.8585	0.0150	0.8735		2,405.9265	2,405.9265	0.0507		2,407.1938
Total	**0.9105**	**0.4762**	**6.2935**	**0.0241**	**3.2366**	**0.0163**	**3.2530**	**0.8585**	**0.0150**	**0.8735**		**2,405.9265**	**2,405.9265**	**0.0507**		**2,407.1938**

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	18.9862	76.0205	220.9293	0.9126	99.8904	0.5691	100.4595	26.6863	0.5287	27.2150		93,472.4158	93,472.4158	4.3612		93,581.4462
Unmitigated	18.9862	76.0205	220.9293	0.9126	99.8904	0.5691	100.4595	26.6863	0.5287	27.2150		93,472.4158	93,472.4158	4.3612		93,581.4462

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
City Park	11.30	136.05	100.11	89,256	89,256
Condo/Townhouse	15,832.25	15,450.75	13189.00	43,972,080	43,972,080
Strip Mall	1,063.68	1,008.96	490.32	1,499,922	1,499,922
Total	16,907.23	16,595.76	13,779.43	45,561,257	45,561,257

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
Strip Mall	9.50	7.30	7.30	16.60	64.40	19.00	45	40	15

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
City Park	0.616428	0.037185	0.177402	0.097684	0.012090	0.005279	0.017663	0.025476	0.001931	0.001677	0.005617	0.000785	0.000782
Condo/Townhouse	0.616428	0.037185	0.177402	0.097684	0.012090	0.005279	0.017663	0.025476	0.001931	0.001677	0.005617	0.000785	0.000782
Strip Mall	0.616428	0.037185	0.177402	0.097684	0.012090	0.005279	0.017663	0.025476	0.001931	0.001677	0.005617	0.000785	0.000782

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	1.3780	11.7762	5.0171	0.0752		0.9520	0.9520		0.9520	0.9520		15,032.2844	15,032.2844	0.2881	0.2756	15,121.6137
NaturalGas Unmitigated	1.3780	11.7762	5.0171	0.0752		0.9520	0.9520		0.9520	0.9520		15,032.2844	15,032.2844	0.2881	0.2756	15,121.6137

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					
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	127627	1.3764	11.7617	5.0050	0.0751		0.9510	0.9510		0.9510	0.9510		15,014.9564	15,014.9564	0.2878	0.2753	15,104.1828
Strip Mall	147.288	1.5900e-003	0.0144	0.0121	9.0000e-005		1.1000e-003	1.1000e-003		1.1000e-003	1.1000e-003		17.3280	17.3280	3.3000e-004	3.2000e-004	17.4309
Total	**0.00006**	**1.3780**	**11.7762**	**5.0171**	**0.0752**		**0.9521**	**0.9521**		**0.9521**	**0.9521**		**15,032.2844**	**15,032.2844**	**0.2881**	**0.2756**	**15,121.6137**

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					
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	127.627	1.3764	11.7617	5.0050	0.0751		0.9510	0.9510		0.9510	0.9510		15,014.9564	15,014.9564	0.2878	0.2753	15,104.1828
Strip Mall	0.147288	1.5900e-003	0.0144	0.0121	9.0000e-005		1.1000e-003	1.1000e-003		1.1000e-003	1.1000e-003		17.3280	17.3280	3.3000e-004	3.2000e-004	17.4309
Total	**0.00006**	**1.3780**	**11.7762**	**5.0171**	**0.0752**		**0.9521**	**0.9521**		**0.9521**	**0.9521**		**15,032.2844**	**15,032.2844**	**0.2881**	**0.2756**	**15,121.6137**

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	4,235.8618	84.0265	5,372.0397	9.3383		723.0195	723.0195		723.0195	723.0195	75,677.9662	32,143.0469	107,821.0131	70.2239	5.9526	111,350.4983

Unmitigated	4,235.8618	84.0265	5,372.0397	9.3383		723.0195	723.0195		723.0195	723.0195	75,677.9662	32,143.0469	107,821.0131	70.2239	5.9526	111,350.4983

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	58.8286					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	4,170.3263	81.4417	5,147.8148	9.3264		721.7727	721.7727		721.7727	721.7727	75,677.9662	31,738.2353	107,416.2015	69.8382	5.9526	110,936.0443
Landscaping	6.7069	2.5849	224.2249	0.0119		1.2468	1.2468		1.2468	1.2468		404.8116	404.8116	0.3857		414.4539
Total	**4,235.8618**	**84.0266**	**5,372.0397**	**9.3383**		**723.0195**	**723.0195**		**723.0195**	**723.0195**	**75,677.9662**	**32,143.0469**	**107,821.0131**	**70.2239**	**5.9526**	**111,350.4983**

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	58.8286					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	4,170.3263	81.4417	5,147.8148	9.3264		721.7727	721.7727		721.7727	721.7727	75,677.9662	31,738.2353	107,416.2015	69.8382	5.9526	110,936.0443
Landscaping	6.7069	2.5849	224.2249	0.0119		1.2468	1.2468		1.2468	1.2468		404.8116	404.8116	0.3857		414.4539

Total	4,235.8618	84.0266	5,372.0397	9.3383		723.0195	723.0195		723.0195	723.0195	75,677.9662	32,143.0469	107,821.0131	70.2239	5.9526	111,350.4983

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

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

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

Boilers

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

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

Stone Creek Phase 2030 Scenario A

San Diego Air Basin, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Office Park	200.00	1000sqft	4.59	200,000.00	0
Hotel	175.00	Room	5.83	254,100.00	0
Condo/Townhouse	835.00	Dwelling Unit	12.28	835,000.00	2388
Strip Mall	150.00	1000sqft	3.44	150,000.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.6	**Precipitation Freq (Days)**	40
Climate Zone	13			**Operational Year**	2040
Utility Company					
CO2 Intensity (lb/MWhr)	0	**CH4 Intensity (lb/MWhr)**	0	**N2O Intensity (lb/MWhr)**	0

1.3 User Entered Comments & Non-Default Data

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	250.00	150.00
tblArchitecturalCoating	EF_Nonresidential_Interior	250.00	100.00
tblArchitecturalCoating	EF_Parking	250.00	0.00
tblArchitecturalCoating	EF_Residential_Exterior	250.00	150.00
tblArchitecturalCoating	EF_Residential_Interior	250.00	100.00
tblAreaCoating	Area_EF_Parking	250	0

tblAreaCoating	Area_Nonresidential_Exterior	302050	0
tblAreaCoating	Area_Nonresidential_Interior	906150	0
tblAreaCoating	Area_Residential_Exterior	563625	0
tblAreaCoating	Area_Residential_Interior	1690875	0
tblAreaMitigation	UseLowVOCPaintNonresidentialExteriorValue	250	0
tblAreaMitigation	UseLowVOCPaintNonresidentialInteriorValue	250	0
tblAreaMitigation	UseLowVOCPaintResidentialExteriorValue	250	0
tblAreaMitigation	UseLowVOCPaintResidentialInteriorValue	250	0
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	40	15
tblConstructionPhase	NumDays	35.00	261.00
tblConstructionPhase	NumDays	440.00	651.00
tblConstructionPhase	NumDays	45.00	261.00
tblConstructionPhase	NumDays	35.00	260.00
tblGrading	AcresOfGrading	652.50	26.14
tblLandUse	LotAcreage	52.19	12.28
tblOffRoadEquipment	HorsePower	231.00	208.00
tblOffRoadEquipment	HorsePower	158.00	157.00
tblOffRoadEquipment	HorsePower	89.00	149.00
tblOffRoadEquipment	HorsePower	187.00	162.00
tblOffRoadEquipment	HorsePower	130.00	89.00
tblOffRoadEquipment	HorsePower	132.00	82.00
tblOffRoadEquipment	HorsePower	80.00	84.00
tblOffRoadEquipment	HorsePower	247.00	358.00
tblOffRoadEquipment	HorsePower	367.00	356.00
tblOffRoadEquipment	HorsePower	97.00	75.00
tblOffRoadEquipment	HorsePower	97.00	75.00
tblOffRoadEquipment	HorsePower	158.00	157.00
tblOffRoadEquipment	HorsePower	402.00	250.00
tblOffRoadEquipment	HorsePower	80.00	84.00
tblOffRoadEquipment	HorsePower	100.00	83.00

tblOffRoadEquipment	HorsePower	78.00	69.00
tblOffRoadEquipment	LoadFactor	0.29	0.43
tblOffRoadEquipment	LoadFactor	0.38	0.57
tblOffRoadEquipment	LoadFactor	0.20	0.30
tblOffRoadEquipment	LoadFactor	0.41	0.61
tblOffRoadEquipment	LoadFactor	0.42	0.62
tblOffRoadEquipment	LoadFactor	0.36	0.53
tblOffRoadEquipment	LoadFactor	0.38	0.56
tblOffRoadEquipment	LoadFactor	0.40	0.59
tblOffRoadEquipment	LoadFactor	0.48	0.72
tblOffRoadEquipment	LoadFactor	0.37	0.55
tblOffRoadEquipment	LoadFactor	0.37	0.55
tblOffRoadEquipment	LoadFactor	0.38	0.57
tblOffRoadEquipment	LoadFactor	0.38	0.57
tblOffRoadEquipment	LoadFactor	0.38	0.56
tblOffRoadEquipment	LoadFactor	0.40	0.60
tblOffRoadEquipment	LoadFactor	0.50	0.75
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblProjectCharacteristics	OperationalYear	2018	2040

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					
2035	6.2590	20.8695	47.7652	0.1422	12.3804	0.7237	13.1041	6.6929	0.7236	7.4165	0.0000	15,036.0720	15,036.0720	0.5526	0.0000	15,049.8875

2036	1.6092	9.5722	19.3017	0.0317	0.1232	0.2909	0.4141	0.0327	0.2909	0.3236	0.0000	3,002.0655	3,002.0655	0.1425	0.0000	3,005.6271
2037	3.1551	20.2483	35.5088	0.1341	8.0088	0.2909	8.1587	2.1531	0.2909	2.3006	0.0000	13,564.3576	13,564.3576	0.5393	0.0000	13,577.8410
2038	3.1551	20.2483	35.5088	0.1341	8.0088	0.1499	8.1587	2.1531	0.1475	2.3006	0.0000	13,564.3576	13,564.3576	0.5393	0.0000	13,577.8410
2039	72.7088	21.1494	39.2819	0.1460	9.3560	0.1643	9.5203	2.5105	0.1615	2.6720	0.0000	14,739.5109	14,739.5109	0.5656	0.0000	14,753.6506
Maximum	**72.7088**	**21.1494**	**47.7652**	**0.1460**	**12.3804**	**0.7237**	**13.1041**	**6.6929**	**0.7236**	**7.4165**	**0.0000**	**15,036.0720**	**15,036.0720**	**0.5656**	**0.0000**	**15,049.8875**

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					
2035	6.2590	20.8695	47.7652	0.1422	4.9687	0.7237	5.6923	2.6475	0.7236	3.3711	0.0000	15,036.0720	15,036.0720	0.5526	0.0000	15,049.8875
2036	1.6092	9.5722	19.3017	0.0317	0.1232	0.2909	0.4141	0.0327	0.2909	0.3236	0.0000	3,002.0655	3,002.0655	0.1425	0.0000	3,005.6271
2037	3.1551	20.2483	35.5088	0.1341	8.0088	0.2909	8.1587	2.1531	0.2909	2.3006	0.0000	13,564.3576	13,564.3576	0.5393	0.0000	13,577.8410
2038	3.1551	20.2483	35.5088	0.1341	8.0088	0.1499	8.1587	2.1531	0.1475	2.3006	0.0000	13,564.3576	13,564.3576	0.5393	0.0000	13,577.8410
2039	72.7088	21.1494	39.2819	0.1460	9.3560	0.1643	9.5203	2.5105	0.1615	2.6720	0.0000	14,739.5109	14,739.5109	0.5656	0.0000	14,753.6506
Maximum	**72.7088**	**21.1494**	**47.7652**	**0.1460**	**9.3560**	**0.7237**	**9.5203**	**2.6475**	**0.7236**	**3.3711**	**0.0000**	**15,036.0720**	**15,036.0720**	**0.5656**	**0.0000**	**15,049.8875**

	ROG	**NOx**	**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**	**19.57**	**0.00**	**18.83**	**29.87**	**0.00**	**26.95**	**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	1,310.7328	25.7477	1,646.0430	2.8615		221.5493	221.5493		221.5493	221.5493	23,189.3952	9,849.4502	33,038.8454	21.5183	1.8240	34,120.3618
Energy	1.0636	9.4388	6.4348	0.0580		0.7348	0.7348		0.7348	0.7348		11,602.6219	11,602.6219	0.2224	0.2127	11,671.5705
Mobile	11.5849	57.5925	130.4300	0.5923	68.9847	0.2416	69.2264	18.4321	0.2249	18.6570		61,003.0191	61,003.0191	2.8668		61,074.6899
Total	**1,323.3812**	**92.7790**	**1,782.9078**	**3.5117**	**68.9847**	**222.5257**	**291.5104**	**18.4321**	**222.5090**	**240.9411**	**23,189.3952**	**82,455.0912**	**105,644.4863**	**24.6075**	**2.0367**	**106,866.6221**

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	1,310.7328	25.7477	1,646.0430	2.8615		221.5493	221.5493		221.5493	221.5493	23,189.3952	9,849.4502	33,038.8454	21.5183	1.8240	34,120.3618
Energy	1.0636	9.4388	6.4348	0.0580		0.7348	0.7348		0.7348	0.7348		11,602.6219	11,602.6219	0.2224	0.2127	11,671.5705
Mobile	11.5849	57.5925	130.4300	0.5923	68.9847	0.2416	69.2264	18.4321	0.2249	18.6570		61,003.0191	61,003.0191	2.8668		61,074.6899
Total	**1,323.3812**	**92.7790**	**1,782.9078**	**3.5117**	**68.9847**	**222.5257**	**291.5104**	**18.4321**	**222.5090**	**240.9411**	**23,189.3952**	**82,455.0912**	**105,644.4863**	**24.6075**	**2.0367**	**106,866.6221**

	ROG	**NOx**	**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	Grading	Grading	1/1/2035	12/31/2035	5	261	
2	Trenching	Trenching	1/1/2036	7/4/2036	5	132	
3	Paving	Paving	7/5/2036	7/4/2037	5	260	
4	Building Construction	Building Construction	7/5/2037	12/31/2039	5	651	
5	Architectural Coating	Architectural Coating	1/1/2039	12/31/2039	5	261	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 26.14

Acres of Paving: 0

Residential Indoor: 1,690,875; Residential Outdoor: 563,625; Non-Residential Indoor: 906,150; Non-Residential Outdoor: 302,050; Striped

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Grading	Excavators	2	8.00	157	0.57
Grading	Graders	1	8.00	162	0.61
Grading	Off-Highway Trucks	1	8.00	250	0.57
Grading	Rollers	1	8.00	84	0.56
Grading	Rubber Tired Dozers	2	8.00	358	0.59
Grading	Scrapers	2	8.00	356	0.72
Grading	Tractors/Loaders/Backhoes	2	8.00	75	0.55
Trenching	Excavators	1	8.00	157	0.57
Trenching	Rough Terrain Forklifts	2	8.00	83	0.60
Trenching	Trenchers	1	8.00	69	0.75
Paving	Pavers	2	8.00	89	0.62
Paving	Paving Equipment	2	8.00	82	0.53
Paving	Rollers	2	8.00	84	0.56
Building Construction	Cranes	1	7.00	208	0.43
Building Construction	Forklifts	3	8.00	149	0.30
Building Construction	Generator Sets	1	8.00	84	0.74

Building Construction	Tractors/Loaders/Backhoes	3	7.00	75	0.55
Building Construction	Welders	1	8.00	46	0.45
Architectural Coating	Air Compressors	1	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
Grading	11	28.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Trenching	4	10.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	820.00	188.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	164.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

3.2 Grading - 2035

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					12.1504	0.0000	12.1504	6.6319	0.0000	6.6319			0.0000			0.0000
Off-Road	6.2152	20.8450	47.4273	0.1407		0.7229	0.7229		0.7229	0.7229		14,883.4882	14,883.4882	0.5499		14,897.2361
Total	**6.2152**	**20.8450**	**47.4273**	**0.1407**	**12.1504**	**0.7229**	**12.8733**	**6.6319**	**0.7229**	**7.3548**		**14,883.4882**	**14,883.4882**	**0.5499**		**14,897.2361**

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	0.0438	0.0245	0.3379	1.5300e-003	0.2300	7.6000e-004	0.2308	0.0610	7.0000e-004	0.0617		152.5838	152.5838	2.7100e-003		152.6515
Total	**0.0438**	**0.0245**	**0.3379**	**1.5300e-003**	**0.2300**	**7.6000e-004**	**0.2308**	**0.0610**	**7.0000e-004**	**0.0617**		**152.5838**	**152.5838**	**2.7100e-003**		**152.6515**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					4.7387	0.0000	4.7387	2.5865	0.0000	2.5865			0.0000			0.0000
Off-Road	6.2152	20.8450	47.4273	0.1407		0.7229	0.7229		0.7229	0.7229	0.0000	14,883.4882	14,883.4882	0.5499		14,897.2360
Total	**6.2152**	**20.8450**	**47.4273**	**0.1407**	**4.7387**	**0.7229**	**5.4616**	**2.5865**	**0.7229**	**3.3094**	**0.0000**	**14,883.4882**	**14,883.4882**	**0.5499**		**14,897.2360**

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	0.0438	0.0245	0.3379	1.5300e-003	0.2300	7.6000e-004	0.2308	0.0610	7.0000e-004	0.0617		152.5838	152.5838	2.7100e-003		152.6515
Total	**0.0438**	**0.0245**	**0.3379**	**1.5300e-003**	**0.2300**	**7.6000e-004**	**0.2308**	**0.0610**	**7.0000e-004**	**0.0617**		**152.5838**	**152.5838**	**2.7100e-003**		**152.6515**

3.3 Trenching - 2036

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	1.0742	5.1339	15.2351	0.0255		0.1282	0.1282		0.1282	0.1282		2,413.9592	2,413.9592	0.0946		2,416.3246
Total	**1.0742**	**5.1339**	**15.2351**	**0.0255**		**0.1282**	**0.1282**		**0.1282**	**0.1282**		**2,413.9592**	**2,413.9592**	**0.0946**		**2,416.3246**

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	0.0156	8.7500e-003	0.1207	5.5000e-004	0.0822	2.7000e-004	0.0824	0.0218	2.5000e-004	0.0220		54.4942	54.4942	9.7000e-004		54.5184

Total	**0.0156**	**8.7500e-003**	**0.1207**	**5.5000e-004**	**0.0822**	**2.7000e-004**	**0.0824**	**0.0218**	**2.5000e-004**	**0.0220**		**54.4942**	**54.4942**	**9.7000e-004**		**54.5184**

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	1.0742	5.1339	15.2351	0.0255		0.1282	0.1282		0.1282	0.1282	0.0000	2,413.9592	2,413.9592	0.0946		2,416.3246
Total	**1.0742**	**5.1339**	**15.2351**	**0.0255**		**0.1282**	**0.1282**		**0.1282**	**0.1282**	**0.0000**	**2,413.9592**	**2,413.9592**	**0.0946**		**2,416.3246**

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	0.0156	8.7500e-003	0.1207	5.5000e-004	0.0822	2.7000e-004	0.0824	0.0218	2.5000e-004	0.0220		54.4942	54.4942	9.7000e-004		54.5184
Total	**0.0156**	**8.7500e-003**	**0.1207**	**5.5000e-004**	**0.0822**	**2.7000e-004**	**0.0824**	**0.0218**	**2.5000e-004**	**0.0220**		**54.4942**	**54.4942**	**9.7000e-004**		**54.5184**

3.4 Paving - 2036

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	1.5858	9.5590	19.1207	0.0308		0.2905	0.2905		0.2905	0.2905		2,920.3242	2,920.3242	0.1410		2,923.8495
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**1.5858**	**9.5590**	**19.1207**	**0.0308**		**0.2905**	**0.2905**		**0.2905**	**0.2905**		**2,920.3242**	**2,920.3242**	**0.1410**		**2,923.8495**

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	0.0235	0.0131	0.1810	8.2000e-004	0.1232	4.1000e-004	0.1236	0.0327	3.8000e-004	0.0331		81.7413	81.7413	1.4500e-003		81.7776
Total	**0.0235**	**0.0131**	**0.1810**	**8.2000e-004**	**0.1232**	**4.1000e-004**	**0.1236**	**0.0327**	**3.8000e-004**	**0.0331**		**81.7413**	**81.7413**	**1.4500e-003**		**81.7776**

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	1.5858	9.5590	19.1207	0.0308		0.2905	0.2905		0.2905	0.2905	0.0000	2,920.3242	2,920.3242	0.1410		2,923.8495
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**1.5858**	**9.5590**	**19.1207**	**0.0308**		**0.2905**	**0.2905**		**0.2905**	**0.2905**	**0.0000**	**2,920.3242**	**2,920.3242**	**0.1410**		**2,923.8495**

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	0.0235	0.0131	0.1810	8.2000e-004	0.1232	4.1000e-004	0.1236	0.0327	3.8000e-004	0.0331		81.7413	81.7413	1.4500e-003		81.7776
Total	**0.0235**	**0.0131**	**0.1810**	**8.2000e-004**	**0.1232**	**4.1000e-004**	**0.1236**	**0.0327**	**3.8000e-004**	**0.0331**		**81.7413**	**81.7413**	**1.4500e-003**		**81.7776**

3.4 Paving - 2037

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	1.5858	9.5590	19.1207	0.0308		0.2905	0.2905		0.2905	0.2905		2,920.3242	2,920.3242	0.1410		2,923.8495
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**1.5858**	**9.5590**	**19.1207**	**0.0308**		**0.2905**	**0.2905**		**0.2905**	**0.2905**		**2,920.3242**	**2,920.3242**	**0.1410**		**2,923.8495**

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	0.0235	0.0131	0.1810	8.2000e-004	0.1232	4.1000e-004	0.1236	0.0327	3.8000e-004	0.0331		81.7413	81.7413	1.4500e-003		81.7776
Total	**0.0235**	**0.0131**	**0.1810**	**8.2000e-004**	**0.1232**	**4.1000e-004**	**0.1236**	**0.0327**	**3.8000e-004**	**0.0331**		**81.7413**	**81.7413**	**1.4500e-003**		**81.7776**

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	1.5858	9.5590	19.1207	0.0308		0.2905	0.2905		0.2905	0.2905	0.0000	2,920.3242	2,920.3242	0.1410		2,923.8495
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**1.5858**	**9.5590**	**19.1207**	**0.0308**		**0.2905**	**0.2905**		**0.2905**	**0.2905**	**0.0000**	**2,920.3242**	**2,920.3242**	**0.1410**		**2,923.8495**

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	0.0235	0.0131	0.1810	8.2000e-004	0.1232	4.1000e-004	0.1236	0.0327	3.8000e-004	0.0331		81.7413	81.7413	1.4500e-003		81.7776
Total	**0.0235**	**0.0131**	**0.1810**	**8.2000e-004**	**0.1232**	**4.1000e-004**	**0.1236**	**0.0327**	**3.8000e-004**	**0.0331**		**81.7413**	**81.7413**	**1.4500e-003**		**81.7776**

3.5 Building Construction - 2037

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	1.5392	6.9983	21.7892	0.0431		0.1142	0.1142		0.1142	0.1142		4,044.3271	4,044.3271	0.1375		4,047.7638
Total	**1.5392**	**6.9983**	**21.7892**	**0.0431**		**0.1142**	**0.1142**		**0.1142**	**0.1142**		**4,044.3271**	**4,044.3271**	**0.1375**		**4,047.7638**

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	0.3340	12.5328	3.8255	0.0463	1.2727	0.0133	1.2860	0.3664	0.0127	0.3791		5,051.5043	5,051.5043	0.3226		5,059.5691
Worker	1.2820	0.7171	9.8942	0.0448	6.7361	0.0223	6.7585	1.7867	0.0206	1.8073		4,468.5262	4,468.5262	0.0793		4,470.5080

Total	**1.6160**	**13.2499**	**13.7196**	**0.0910**	**8.0088**	**0.0357**	**8.0444**	**2.1531**	**0.0333**	**2.1864**		**9,520.0305**	**9,520.0305**	**0.4019**		**9,530.0771**

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	1.5392	6.9983	21.7892	0.0431		0.1142	0.1142		0.1142	0.1142	0.0000	4,044.3271	4,044.3271	0.1375		4,047.7638
Total	**1.5392**	**6.9983**	**21.7892**	**0.0431**		**0.1142**	**0.1142**		**0.1142**	**0.1142**	**0.0000**	**4,044.3271**	**4,044.3271**	**0.1375**		**4,047.7638**

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	0.3340	12.5328	3.8255	0.0463	1.2727	0.0133	1.2860	0.3664	0.0127	0.3791		5,051.5043	5,051.5043	0.3226		5,059.5691
Worker	1.2820	0.7171	9.8942	0.0448	6.7361	0.0223	6.7585	1.7867	0.0206	1.8073		4,468.5262	4,468.5262	0.0793		4,470.5080
Total	**1.6160**	**13.2499**	**13.7196**	**0.0910**	**8.0088**	**0.0357**	**8.0444**	**2.1531**	**0.0333**	**2.1864**		**9,520.0305**	**9,520.0305**	**0.4019**		**9,530.0771**

3.5 Building Construction - 2038

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	1.5392	6.9983	21.7892	0.0431		0.1142	0.1142		0.1142	0.1142		4,044.3271	4,044.3271	0.1375		4,047.7638
Total	**1.5392**	**6.9983**	**21.7892**	**0.0431**		**0.1142**	**0.1142**		**0.1142**	**0.1142**		**4,044.3271**	**4,044.3271**	**0.1375**		**4,047.7638**

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	0.3340	12.5328	3.8255	0.0463	1.2727	0.0133	1.2860	0.3664	0.0127	0.3791		5,051.5043	5,051.5043	0.3226		5,059.5691
Worker	1.2820	0.7171	9.8942	0.0448	6.7361	0.0223	6.7585	1.7867	0.0206	1.8073		4,468.5262	4,468.5262	0.0793		4,470.5080
Total	**1.6160**	**13.2499**	**13.7196**	**0.0910**	**8.0088**	**0.0357**	**8.0444**	**2.1531**	**0.0333**	**2.1864**		**9,520.0305**	**9,520.0305**	**0.4019**		**9,530.0771**

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	1.5392	6.9983	21.7892	0.0431		0.1142	0.1142		0.1142	0.1142	0.0000	4,044.3271	4,044.3271	0.1375		4,047.7638
Total	**1.5392**	**6.9983**	**21.7892**	**0.0431**		**0.1142**	**0.1142**		**0.1142**	**0.1142**	**0.0000**	**4,044.3271**	**4,044.3271**	**0.1375**		**4,047.7638**

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	0.3340	12.5328	3.8255	0.0463	1.2727	0.0133	1.2860	0.3664	0.0127	0.3791		5,051.5043	5,051.5043	0.3226		5,059.5691
Worker	1.2820	0.7171	9.8942	0.0448	6.7361	0.0223	6.7585	1.7867	0.0206	1.8073		4,468.5262	4,468.5262	0.0793		4,470.5080
Total	**1.6160**	**13.2499**	**13.7196**	**0.0910**	**8.0088**	**0.0357**	**8.0444**	**2.1531**	**0.0333**	**2.1864**		**9,520.0305**	**9,520.0305**	**0.4019**		**9,530.0771**

3.5 Building Construction - 2039

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	1.5392	6.9983	21.7892	0.0431		0.1142	0.1142		0.1142	0.1142		4,044.3271	4,044.3271	0.1375		4,047.7638
Total	**1.5392**	**6.9983**	**21.7892**	**0.0431**		**0.1142**	**0.1142**		**0.1142**	**0.1142**		**4,044.3271**	**4,044.3271**	**0.1375**		**4,047.7638**

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	0.3340	12.5328	3.8255	0.0463	1.2727	0.0133	1.2860	0.3664	0.0127	0.3791		5,051.5043	5,051.5043	0.3226		5,059.5691
Worker	1.2820	0.7171	9.8942	0.0448	6.7361	0.0223	6.7585	1.7867	0.0206	1.8073		4,468.5262	4,468.5262	0.0793		4,470.5080
Total	**1.6160**	**13.2499**	**13.7196**	**0.0910**	**8.0088**	**0.0357**	**8.0444**	**2.1531**	**0.0333**	**2.1864**		**9,520.0305**	**9,520.0305**	**0.4019**		**9,530.0771**

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	1.5392	6.9983	21.7892	0.0431		0.1142	0.1142		0.1142	0.1142	0.0000	4,044.3271	4,044.3271	0.1375		4,047.7638
Total	**1.5392**	**6.9983**	**21.7892**	**0.0431**		**0.1142**	**0.1142**		**0.1142**	**0.1142**	**0.0000**	**4,044.3271**	**4,044.3271**	**0.1375**		**4,047.7638**

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	0.3340	12.5328	3.8255	0.0463	1.2727	0.0133	1.2860	0.3664	0.0127	0.3791		5,051.5043	5,051.5043	0.3226		5,059.5691
Worker	1.2820	0.7171	9.8942	0.0448	6.7361	0.0223	6.7585	1.7867	0.0206	1.8073		4,468.5262	4,468.5262	0.0793		4,470.5080
Total	**1.6160**	**13.2499**	**13.7196**	**0.0910**	**8.0088**	**0.0357**	**8.0444**	**2.1531**	**0.0333**	**2.1864**		**9,520.0305**	**9,520.0305**	**0.4019**		**9,530.0771**

3.6 Architectural Coating - 2039

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	69.1794					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1179	0.7577	1.7943	2.9700e-003		9.9000e-003	9.9000e-003		9.9000e-003	9.9000e-003		281.4481	281.4481	0.0104		281.7081
Total	**69.2972**	**0.7577**	**1.7943**	**2.9700e-003**		**9.9000e-003**	**9.9000e-003**		**9.9000e-003**	**9.9000e-003**		**281.4481**	**281.4481**	**0.0104**		**281.7081**

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	0.2564	0.1434	1.9788	8.9500e-003	1.3472	4.4700e-003	1.3517	0.3574	4.1100e-003	0.3615		893.7052	893.7052	0.0159		894.1016

Total	**0.2564**	**0.1434**	**1.9788**	**8.9500e-003**	**1.3472**	**4.4700e-003**	**1.3517**	**0.3574**	**4.1100e-003**	**0.3615**		**893.7052**	**893.7052**	**0.0159**		**894.1016**

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	69.1794					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1179	0.7577	1.7943	2.9700e-003		9.9000e-003	9.9000e-003		9.9000e-003	9.9000e-003	0.0000	281.4481	281.4481	0.0104		281.7081
Total	**69.2972**	**0.7577**	**1.7943**	**2.9700e-003**		**9.9000e-003**	**9.9000e-003**		**9.9000e-003**	**9.9000e-003**	**0.0000**	**281.4481**	**281.4481**	**0.0104**		**281.7081**

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	0.2564	0.1434	1.9788	8.9500e-003	1.3472	4.4700e-003	1.3517	0.3574	4.1100e-003	0.3615		893.7052	893.7052	0.0159		894.1016
Total	**0.2564**	**0.1434**	**1.9788**	**8.9500e-003**	**1.3472**	**4.4700e-003**	**1.3517**	**0.3574**	**4.1100e-003**	**0.3615**		**893.7052**	**893.7052**	**0.0159**		**894.1016**

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	11.5849	57.5925	130.4300	0.5923	68.9847	0.2416	69.2264	18.4321	0.2249	18.6570		61,003.0191	61,003.0191	2.8668		61,074.6899
Unmitigated	11.5849	57.5925	130.4300	0.5923	68.9847	0.2416	69.2264	18.4321	0.2249	18.6570		61,003.0191	61,003.0191	2.8668		61,074.6899

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Condo/Townhouse	4,851.35	4,734.45	4041.40	13,474,013	13,474,013
Hotel	1,429.75	1,433.25	1041.25	2,611,930	2,611,930
Office Park	2,284.00	328.00	152.00	4,260,621	4,260,621
Strip Mall	6,648.00	6,306.00	3064.50	9,374,511	9,374,511
Total	15,213.10	12,801.70	8,299.15	29,721,075	29,721,075

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
Hotel	9.50	7.30	7.30	19.40	61.60	19.00	58	38	4
Office Park	9.50	7.30	7.30	33.00	48.00	19.00	82	15	3
Strip Mall	9.50	7.30	7.30	16.60	64.40	19.00	45	40	15

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Office Park	0.617015	0.036172	0.176461	0.096699	0.011030	0.005289	0.019152	0.027591	0.001967	0.001602	0.005530	0.000810	0.000683

Hotel	0.617015	0.036172	0.176461	0.096699	0.011030	0.005289	0.019152	0.027591	0.001967	0.001602	0.005530	0.000810	0.000683
Condo/Townhouse	0.617015	0.036172	0.176461	0.096699	0.011030	0.005289	0.019152	0.027591	0.001967	0.001602	0.005530	0.000810	0.000683
Strip Mall	0.617015	0.036172	0.176461	0.096699	0.011030	0.005289	0.019152	0.027591	0.001967	0.001602	0.005530	0.000810	0.000683

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	1.0636	9.4388	6.4348	0.0580		0.7348	0.7348		0.7348	0.7348		11,602.6219	11,602.6219	0.2224	0.2127	11,671.5705
NaturalGas Unmitigated	1.0636	9.4388	6.4348	0.0580		0.7348	0.7348		0.7348	0.7348		11,602.6219	11,602.6219	0.2224	0.2127	11,671.5705

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	39107.8	0.4218	3.6041	1.5336	0.0230		0.2914	0.2914		0.2914	0.2914		4,600.9133	4,600.9133	0.0882	0.0844	4,628.2542
Hotel	40802.2	0.4400	4.0002	3.3602	0.0240		0.3040	0.3040		0.3040	0.3040		4,800.2582	4,800.2582	0.0920	0.0880	4,828.7837

Office Park	17791.8	0.1919	1.7443	1.4652	0.0105		0.1326	0.1326		0.1326	0.1326		2,093.1507	2,093.1507	0.0401	0.0384	2,105.5892
Strip Mall	920.548	9.9300e-003	0.0903	0.0758	5.4000e-004		6.8600e-003	6.8600e-003		6.8600e-003	6.8600e-003		108.2998	108.2998	2.0800e-003	1.9900e-003	108.9433
Total	**0.00005**	**1.0636**	**9.4388**	**6.4348**	**0.0580**		**0.7348**	**0.7348**		**0.7348**	**0.7348**		**11,602.6219**	**11,602.6219**	**0.2224**	**0.2127**	**11,671.5704**

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	39.1078	0.4218	3.6041	1.5336	0.0230		0.2914	0.2914		0.2914	0.2914		4,600.9133	4,600.9133	0.0882	0.0844	4,628.2542
Hotel	40.8022	0.4400	4.0002	3.3602	0.0240		0.3040	0.3040		0.3040	0.3040		4,800.2582	4,800.2582	0.0920	0.0880	4,828.7837
Office Park	17.7918	0.1919	1.7443	1.4652	0.0105		0.1326	0.1326		0.1326	0.1326		2,093.1507	2,093.1507	0.0401	0.0384	2,105.5892
Strip Mall	0.920548	9.9300e-003	0.0903	0.0758	5.4000e-004		6.8600e-003	6.8600e-003		6.8600e-003	6.8600e-003		108.2998	108.2998	2.0800e-003	1.9900e-003	108.9433
Total	**0.00005**	**1.0636**	**9.4388**	**6.4348**	**0.0580**		**0.7348**	**0.7348**		**0.7348**	**0.7348**		**11,602.6219**	**11,602.6219**	**0.2224**	**0.2127**	**11,671.5704**

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	1,310.7328	25.7477	1,646.0430	2.8615		221.5493	221.5493		221.5493	221.5493	23,189.3952	9,849.4502	33,038.8454	21.5183	1.8240	34,120.3618
Unmitigated	1,310.7328	25.7477	1,646.0430	2.8615		221.5493	221.5493		221.5493	221.5493	23,189.3952	9,849.4502	33,038.8454	21.5183	1.8240	34,120.3618

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	30.7967					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	1,277.8798	24.9555	1,577.4038	2.8578		221.1671	221.1671		221.1671	221.1671	23,189.3952	9,725.2941	32,914.6893	21.4000	1.8240	33,993.2466
Landscaping	2.0562	0.7921	68.6392	3.6400e-003		0.3822	0.3822		0.3822	0.3822		124.1561	124.1561	0.1184		127.1151
Total	**1,310.7328**	**25.7477**	**1,646.0430**	**2.8615**		**221.5493**	**221.5493**		**221.5493**	**221.5493**	**23,189.3952**	**9,849.4502**	**33,038.8454**	**21.5183**	**1.8240**	**34,120.3618**

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	30.7967					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	1,277.8798	24.9555	1,577.4038	2.8578		221.1671	221.1671		221.1671	221.1671	23,189.3952	9,725.2941	32,914.6893	21.4000	1.8240	33,993.2466

Landscaping	2.0562	0.7921	68.6392	3.6400e-003		0.3822	0.3822		0.3822	0.3822		124.1561	124.1561	0.1184		127.1151
Total	**1,310.7328**	**25.7477**	**1,646.0430**	**2.8615**		**221.5493**	**221.5493**		**221.5493**	**221.5493**	**23,189.3952**	**9,849.4502**	**33,038.8454**	**21.5183**	**1.8240**	**34,120.3618**

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

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

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

Boilers

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

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

Stone Creek Phase 2030 Scenario B

San Diego Air Basin, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Light Industry	300.00	1000sqft	16.48	300,000.00	0
City Park	30.21	Acre	30.21	0.00	0
Condo/Townhouse	300.00	Dwelling Unit	13.35	300,000.00	858

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.6	**Precipitation Freq (Days)**	40
Climate Zone	13			**Operational Year**	2040
Utility Company					
CO2 Intensity (lb/MWhr)	0	**CH4 Intensity (lb/MWhr)**	0	**N2O Intensity (lb/MWhr)**	0

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - Based on site description

Architectural Coating - Rule 67.0 coatings

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	250.00	150.00
tblArchitecturalCoating	EF_Nonresidential_Interior	250.00	100.00
tblArchitecturalCoating	EF_Parking	250.00	0.00
tblArchitecturalCoating	EF_Residential_Exterior	250.00	150.00

tblArchitecturalCoating	EF_Residential_Interior	250.00	100.00
tblAreaCoating	Area_EF_Parking	250	0
tblAreaMitigation	UseLowVOCPaintNonresidentialExteriorValue	250	0
tblAreaMitigation	UseLowVOCPaintNonresidentialInteriorValue	250	0
tblAreaMitigation	UseLowVOCPaintResidentialExteriorValue	250	0
tblAreaMitigation	UseLowVOCPaintResidentialInteriorValue	250	0
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	40	15
tblConstructionPhase	NumDays	75.00	261.00
tblConstructionPhase	NumDays	1,110.00	651.00
tblConstructionPhase	NumDays	110.00	261.00
tblConstructionPhase	NumDays	75.00	260.00
tblGrading	AcresOfGrading	652.50	50.05
tblLandUse	GreenSpaceAllowEdit	1.00	0.00
tblLandUse	GreenSpaceSquareFeet	1,315,947.60	0.00
tblLandUse	LandUseSquareFeet	1,315,947.60	0.00
tblLandUse	LotAcreage	6.89	16.48
tblLandUse	LotAcreage	18.75	13.35
tblOffRoadEquipment	HorsePower	231.00	208.00
tblOffRoadEquipment	HorsePower	158.00	157.00
tblOffRoadEquipment	HorsePower	89.00	149.00
tblOffRoadEquipment	HorsePower	187.00	162.00
tblOffRoadEquipment	HorsePower	130.00	89.00
tblOffRoadEquipment	HorsePower	132.00	82.00
tblOffRoadEquipment	HorsePower	80.00	84.00
tblOffRoadEquipment	HorsePower	247.00	358.00
tblOffRoadEquipment	HorsePower	367.00	356.00
tblOffRoadEquipment	HorsePower	97.00	75.00
tblOffRoadEquipment	HorsePower	97.00	75.00
tblOffRoadEquipment	HorsePower	158.00	157.00
tblOffRoadEquipment	HorsePower	402.00	250.00

tblOffRoadEquipment	HorsePower	80.00	84.00
tblOffRoadEquipment	HorsePower	100.00	83.00
tblOffRoadEquipment	HorsePower	78.00	69.00
tblOffRoadEquipment	LoadFactor	0.29	0.43
tblOffRoadEquipment	LoadFactor	0.38	0.57
tblOffRoadEquipment	LoadFactor	0.20	0.30
tblOffRoadEquipment	LoadFactor	0.41	0.61
tblOffRoadEquipment	LoadFactor	0.42	0.62
tblOffRoadEquipment	LoadFactor	0.36	0.53
tblOffRoadEquipment	LoadFactor	0.38	0.56
tblOffRoadEquipment	LoadFactor	0.40	0.59
tblOffRoadEquipment	LoadFactor	0.48	0.72
tblOffRoadEquipment	LoadFactor	0.37	0.55
tblOffRoadEquipment	LoadFactor	0.37	0.55
tblOffRoadEquipment	LoadFactor	0.38	0.57
tblOffRoadEquipment	LoadFactor	0.38	0.57
tblOffRoadEquipment	LoadFactor	0.38	0.56
tblOffRoadEquipment	LoadFactor	0.40	0.60
tblOffRoadEquipment	LoadFactor	0.50	0.75
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblProjectCharacteristics	OperationalYear	2018	2040

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					

2030	28.4476	0.9333	2.8277	7.0300e-003	0.5586	0.0229	0.5815	0.1482	0.0227	0.1709	0.0000	686.3562	686.3562	0.0197	0.0000	686.8474
2035	6.2590	20.8695	47.7652	0.1422	12.4776	0.7237	13.2012	6.7034	0.7236	7.4270	0.0000	15,036.0720	15,036.0720	0.5526	0.0000	15,049.8875
2036	1.6092	9.5722	19.3017	0.0317	0.1232	0.2909	0.4141	0.0327	0.2909	0.3236	0.0000	3,002.0655	3,002.0655	0.1425	0.0000	3,005.6271
2037	2.2178	12.6972	27.5640	0.0817	3.3578	0.2909	3.4871	0.9031	0.2909	1.0313	0.0000	8,084.4755	8,084.4755	0.3095	0.0000	8,092.2135
2038	2.2178	12.6972	27.5640	0.0817	3.3578	0.1293	3.4871	0.9031	0.1283	1.0313	0.0000	8,084.4755	8,084.4755	0.3095	0.0000	8,092.2135
2039	2.2178	12.6972	27.5640	0.0817	3.3578	0.1293	3.4871	0.9031	0.1283	1.0313	0.0000	8,084.4755	8,084.4755	0.3095	0.0000	8,092.2135
Maximum	**28.4476**	**20.8695**	**47.7652**	**0.1422**	**12.4776**	**0.7237**	**13.2012**	**6.7034**	**0.7236**	**7.4270**	**0.0000**	**15,036.0720**	**15,036.0720**	**0.5526**	**0.0000**	**15,049.8875**

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					
2030	28.4476	0.9333	2.8277	7.0300e-003	0.5586	0.0229	0.5815	0.1482	0.0227	0.1709	0.0000	686.3562	686.3562	0.0197	0.0000	686.8474
2035	6.2590	20.8695	47.7652	0.1422	5.0066	0.7237	5.7302	2.6516	0.7236	3.3752	0.0000	15,036.0720	15,036.0720	0.5526	0.0000	15,049.8875
2036	1.6092	9.5722	19.3017	0.0317	0.1232	0.2909	0.4141	0.0327	0.2909	0.3236	0.0000	3,002.0655	3,002.0655	0.1425	0.0000	3,005.6271
2037	2.2178	12.6972	27.5640	0.0817	3.3578	0.2909	3.4871	0.9031	0.2909	1.0313	0.0000	8,084.4755	8,084.4755	0.3095	0.0000	8,092.2135
2038	2.2178	12.6972	27.5640	0.0817	3.3578	0.1293	3.4871	0.9031	0.1283	1.0313	0.0000	8,084.4755	8,084.4755	0.3095	0.0000	8,092.2135
2039	2.2178	12.6972	27.5640	0.0817	3.3578	0.1293	3.4871	0.9031	0.1283	1.0313	0.0000	8,084.4755	8,084.4755	0.3095	0.0000	8,092.2135
Maximum	**28.4476**	**20.8695**	**47.7652**	**0.1422**	**5.0066**	**0.7237**	**5.7302**	**2.6516**	**0.7236**	**3.3752**	**0.0000**	**15,036.0720**	**15,036.0720**	**0.5526**	**0.0000**	**15,049.8875**

	ROG	NOx	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**	**32.16**	**0.00**	**30.30**	**42.24**	**0.00**	**36.78**	**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	477.1748	9.2508	591.4071	1.0281		79.5986	79.5986		79.5986	79.5986	8,331.5192	3,538.7556	11,870.2748	7.7312	0.6553	12,258.8456
Energy	0.2543	2.2288	1.3355	0.0139		0.1757	0.1757		0.1757	0.1757		2,773.7318	2,773.7318	0.0532	0.0509	2,790.2147
Mobile	3.8879	18.7924	47.8309	0.2238	26.6053	0.0900	26.6952	7.1087	0.0837	7.1924		23,031.1099	23,031.1099	1.0563		23,057.5177
Total	**481.3170**	**30.2720**	**640.5735**	**1.2657**	**26.6053**	**79.8642**	**106.4695**	**7.1087**	**79.8580**	**86.9667**	**8,331.5192**	**29,343.5973**	**37,675.1166**	**8.8407**	**0.7062**	**38,106.5781**

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	477.1748	9.2508	591.4071	1.0281		79.5986	79.5986		79.5986	79.5986	8,331.5192	3,538.7556	11,870.2748	7.7312	0.6553	12,258.8456
Energy	0.2543	2.2288	1.3355	0.0139		0.1757	0.1757		0.1757	0.1757		2,773.7318	2,773.7318	0.0532	0.0509	2,790.2147
Mobile	3.8879	18.7924	47.8309	0.2238	26.6053	0.0900	26.6952	7.1087	0.0837	7.1924		23,031.1099	23,031.1099	1.0563		23,057.5177
Total	**481.3170**	**30.2720**	**640.5735**	**1.2657**	**26.6053**	**79.8642**	**106.4695**	**7.1087**	**79.8580**	**86.9667**	**8,331.5192**	**29,343.5973**	**37,675.1166**	**8.8407**	**0.7062**	**38,106.5781**

	ROG	**NOx**	**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	Architectural Coating	Architectural Coating	1/1/2030	12/31/2030	5	261	
2	Grading	Grading	1/1/2035	12/31/2035	5	261	
3	Trenching	Trenching	1/1/2036	7/3/2036	5	132	
4	Paving	Paving	7/4/2036	7/2/2037	5	260	
5	Building Construction	Building Construction	7/3/2037	12/31/2039	5	651	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 50.05

Acres of Paving: 0

Residential Indoor: 607,500; Residential Outdoor: 202,500; Non-Residential Indoor: 450,000; Non-Residential Outdoor: 150,000; Striped

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	1	6.00	78	0.48
Grading	Excavators	2	8.00	157	0.57
Grading	Graders	1	8.00	162	0.61
Grading	Off-Highway Trucks	1	8.00	250	0.57
Grading	Rollers	1	8.00	84	0.56
Grading	Rubber Tired Dozers	2	8.00	358	0.59
Grading	Scrapers	2	8.00	356	0.72
Grading	Tractors/Loaders/Backhoes	2	8.00	75	0.55
Trenching	Excavators	1	8.00	157	0.57
Trenching	Rough Terrain Forklifts	2	8.00	83	0.60
Trenching	Trenchers	1	8.00	69	0.75
Paving	Pavers	2	8.00	89	0.62
Paving	Paving Equipment	2	8.00	82	0.53

Paving	Rollers	2	8.00	84	0.56
Building Construction	Cranes	1	7.00	208	0.43
Building Construction	Forklifts	3	8.00	149	0.30
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	75	0.55
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
Architectural Coating	1	68.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	11	28.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Trenching	4	10.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	342.00	81.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

3.2 Architectural Coating - 2030

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	28.1696					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1308	0.8563	1.7977	2.9700e-003		0.0203	0.0203		0.0203	0.0203		281.4481	281.4481	0.0114		281.7328

Total	**28.3004**	**0.8563**	**1.7977**	**2.9700e-003**		**0.0203**	**0.0203**		**0.0203**	**0.0203**		**281.4481**	**281.4481**	**0.0114**		**281.7328**

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	0.1472	0.0770	1.0300	4.0600e-003	0.5586	2.6200e-003	0.5612	0.1482	2.4100e-003	0.1506		404.9081	404.9081	8.2600e-003		405.1146
Total	**0.1472**	**0.0770**	**1.0300**	**4.0600e-003**	**0.5586**	**2.6200e-003**	**0.5612**	**0.1482**	**2.4100e-003**	**0.1506**		**404.9081**	**404.9081**	**8.2600e-003**		**405.1146**

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	28.1696					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1308	0.8563	1.7977	2.9700e-003		0.0203	0.0203		0.0203	0.0203	0.0000	281.4481	281.4481	0.0114		281.7328
Total	**28.3004**	**0.8563**	**1.7977**	**2.9700e-003**		**0.0203**	**0.0203**		**0.0203**	**0.0203**	**0.0000**	**281.4481**	**281.4481**	**0.0114**		**281.7328**

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	0.1472	0.0770	1.0300	4.0600e-003	0.5586	2.6200e-003	0.5612	0.1482	2.4100e-003	0.1506		404.9081	404.9081	8.2600e-003		405.1146
Total	**0.1472**	**0.0770**	**1.0300**	**4.0600e-003**	**0.5586**	**2.6200e-003**	**0.5612**	**0.1482**	**2.4100e-003**	**0.1506**		**404.9081**	**404.9081**	**8.2600e-003**		**405.1146**

3.3 Grading - 2035

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					12.2475	0.0000	12.2475	6.6424	0.0000	6.6424			0.0000			0.0000
Off-Road	6.2152	20.8450	47.4273	0.1407		0.7229	0.7229		0.7229	0.7229		14,883.4882	14,883.4882	0.5499		14,897.2361
Total	**6.2152**	**20.8450**	**47.4273**	**0.1407**	**12.2475**	**0.7229**	**12.9705**	**6.6424**	**0.7229**	**7.3653**		**14,883.4882**	**14,883.4882**	**0.5499**		**14,897.2361**

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	0.0438	0.0245	0.3379	1.5300e-003	0.2300	7.6000e-004	0.2308	0.0610	7.0000e-004	0.0617		152.5838	152.5838	2.7100e-003		152.6515
Total	**0.0438**	**0.0245**	**0.3379**	**1.5300e-003**	**0.2300**	**7.6000e-004**	**0.2308**	**0.0610**	**7.0000e-004**	**0.0617**		**152.5838**	**152.5838**	**2.7100e-003**		**152.6515**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					4.7765	0.0000	4.7765	2.5905	0.0000	2.5905			0.0000			0.0000
Off-Road	6.2152	20.8450	47.4273	0.1407		0.7229	0.7229		0.7229	0.7229	0.0000	14,883.4882	14,883.4882	0.5499		14,897.2360
Total	**6.2152**	**20.8450**	**47.4273**	**0.1407**	**4.7765**	**0.7229**	**5.4995**	**2.5905**	**0.7229**	**3.3135**	**0.0000**	**14,883.4882**	**14,883.4882**	**0.5499**		**14,897.2360**

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	0.0438	0.0245	0.3379	1.5300e-003	0.2300	7.6000e-004	0.2308	0.0610	7.0000e-004	0.0617		152.5838	152.5838	2.7100e-003		152.6515
Total	**0.0438**	**0.0245**	**0.3379**	**1.5300e-003**	**0.2300**	**7.6000e-004**	**0.2308**	**0.0610**	**7.0000e-004**	**0.0617**		**152.5838**	**152.5838**	**2.7100e-003**		**152.6515**

3.4 Trenching - 2036

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	1.0742	5.1339	15.2351	0.0255		0.1282	0.1282		0.1282	0.1282		2,413.9592	2,413.9592	0.0946		2,416.3246
Total	**1.0742**	**5.1339**	**15.2351**	**0.0255**		**0.1282**	**0.1282**		**0.1282**	**0.1282**		**2,413.9592**	**2,413.9592**	**0.0946**		**2,416.3246**

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	0.0156	8.7500e-003	0.1207	5.5000e-004	0.0822	2.7000e-004	0.0824	0.0218	2.5000e-004	0.0220		54.4942	54.4942	9.7000e-004		54.5184
Total	**0.0156**	**8.7500e-003**	**0.1207**	**5.5000e-004**	**0.0822**	**2.7000e-004**	**0.0824**	**0.0218**	**2.5000e-004**	**0.0220**		**54.4942**	**54.4942**	**9.7000e-004**		**54.5184**

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	1.0742	5.1339	15.2351	0.0255		0.1282	0.1282		0.1282	0.1282	0.0000	2,413.9592	2,413.9592	0.0946		2,416.3246
Total	**1.0742**	**5.1339**	**15.2351**	**0.0255**		**0.1282**	**0.1282**		**0.1282**	**0.1282**	**0.0000**	**2,413.9592**	**2,413.9592**	**0.0946**		**2,416.3246**

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	0.0156	8.7500e-003	0.1207	5.5000e-004	0.0822	2.7000e-004	0.0824	0.0218	2.5000e-004	0.0220		54.4942	54.4942	9.7000e-004		54.5184
Total	**0.0156**	**8.7500e-003**	**0.1207**	**5.5000e-004**	**0.0822**	**2.7000e-004**	**0.0824**	**0.0218**	**2.5000e-004**	**0.0220**		**54.4942**	**54.4942**	**9.7000e-004**		**54.5184**

3.5 Paving - 2036

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	1.5858	9.5590	19.1207	0.0308		0.2905	0.2905		0.2905	0.2905		2,920.3242	2,920.3242	0.1410		2,923.8495

Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**1.5858**	**9.5590**	**19.1207**	**0.0308**		**0.2905**	**0.2905**		**0.2905**	**0.2905**		**2,920.3242**	**2,920.3242**	**0.1410**		**2,923.8495**

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	0.0235	0.0131	0.1810	8.2000e-004	0.1232	4.1000e-004	0.1236	0.0327	3.8000e-004	0.0331		81.7413	81.7413	1.4500e-003		81.7776
Total	**0.0235**	**0.0131**	**0.1810**	**8.2000e-004**	**0.1232**	**4.1000e-004**	**0.1236**	**0.0327**	**3.8000e-004**	**0.0331**		**81.7413**	**81.7413**	**1.4500e-003**		**81.7776**

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	1.5858	9.5590	19.1207	0.0308		0.2905	0.2905		0.2905	0.2905	0.0000	2,920.3242	2,920.3242	0.1410		2,923.8495
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**1.5858**	**9.5590**	**19.1207**	**0.0308**		**0.2905**	**0.2905**		**0.2905**	**0.2905**	**0.0000**	**2,920.3242**	**2,920.3242**	**0.1410**		**2,923.8495**

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	0.0235	0.0131	0.1810	8.2000e-004	0.1232	4.1000e-004	0.1236	0.0327	3.8000e-004	0.0331		81.7413	81.7413	1.4500e-003		81.7776
Total	**0.0235**	**0.0131**	**0.1810**	**8.2000e-004**	**0.1232**	**4.1000e-004**	**0.1236**	**0.0327**	**3.8000e-004**	**0.0331**		**81.7413**	**81.7413**	**1.4500e-003**		**81.7776**

3.5 Paving - 2037

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	1.5858	9.5590	19.1207	0.0308		0.2905	0.2905		0.2905	0.2905		2,920.3242	2,920.3242	0.1410		2,923.8495
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**1.5858**	**9.5590**	**19.1207**	**0.0308**		**0.2905**	**0.2905**		**0.2905**	**0.2905**		**2,920.3242**	**2,920.3242**	**0.1410**		**2,923.8495**

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	0.0235	0.0131	0.1810	8.2000e-004	0.1232	4.1000e-004	0.1236	0.0327	3.8000e-004	0.0331		81.7413	81.7413	1.4500e-003		81.7776
Total	**0.0235**	**0.0131**	**0.1810**	**8.2000e-004**	**0.1232**	**4.1000e-004**	**0.1236**	**0.0327**	**3.8000e-004**	**0.0331**		**81.7413**	**81.7413**	**1.4500e-003**		**81.7776**

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	1.5858	9.5590	19.1207	0.0308		0.2905	0.2905		0.2905	0.2905	0.0000	2,920.3242	2,920.3242	0.1410		2,923.8495
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**1.5858**	**9.5590**	**19.1207**	**0.0308**		**0.2905**	**0.2905**		**0.2905**	**0.2905**	**0.0000**	**2,920.3242**	**2,920.3242**	**0.1410**		**2,923.8495**

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	0.0235	0.0131	0.1810	8.2000e-004	0.1232	4.1000e-004	0.1236	0.0327	3.8000e-004	0.0331		81.7413	81.7413	1.4500e-003		81.7776
Total	**0.0235**	**0.0131**	**0.1810**	**8.2000e-004**	**0.1232**	**4.1000e-004**	**0.1236**	**0.0327**	**3.8000e-004**	**0.0331**		**81.7413**	**81.7413**	**1.4500e-003**		**81.7776**

3.6 Building Construction - 2037

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	1.5392	6.9983	21.7892	0.0431		0.1142	0.1142		0.1142	0.1142		4,044.3271	4,044.3271	0.1375		4,047.7638
Total	**1.5392**	**6.9983**	**21.7892**	**0.0431**		**0.1142**	**0.1142**		**0.1142**	**0.1142**		**4,044.3271**	**4,044.3271**	**0.1375**		**4,047.7638**

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	0.1439	5.3998	1.6482	0.0199	0.5483	5.7400e-003	0.5541	0.1579	5.4800e-003	0.1633		2,176.4460	2,176.4460	0.1390		2,179.9207
Worker	0.5347	0.2991	4.1266	0.0187	2.8095	9.3200e-003	2.8188	0.7452	8.5700e-003	0.7538		1,863.7024	1,863.7024	0.0331		1,864.5290
Total	**0.6786**	**5.6989**	**5.7748**	**0.0386**	**3.3578**	**0.0151**	**3.3728**	**0.9031**	**0.0141**	**0.9171**		**4,040.1484**	**4,040.1484**	**0.1721**		**4,044.4497**

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	1.5392	6.9983	21.7892	0.0431		0.1142	0.1142		0.1142	0.1142	0.0000	4,044.3271	4,044.3271	0.1375		4,047.7638
Total	**1.5392**	**6.9983**	**21.7892**	**0.0431**		**0.1142**	**0.1142**		**0.1142**	**0.1142**	**0.0000**	**4,044.3271**	**4,044.3271**	**0.1375**		**4,047.7638**

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	0.1439	5.3998	1.6482	0.0199	0.5483	5.7400e-003	0.5541	0.1579	5.4800e-003	0.1633		2,176.4460	2,176.4460	0.1390		2,179.9207
Worker	0.5347	0.2991	4.1266	0.0187	2.8095	9.3200e-003	2.8188	0.7452	8.5700e-003	0.7538		1,863.7024	1,863.7024	0.0331		1,864.5290
Total	**0.6786**	**5.6989**	**5.7748**	**0.0386**	**3.3578**	**0.0151**	**3.3728**	**0.9031**	**0.0141**	**0.9171**		**4,040.1484**	**4,040.1484**	**0.1721**		**4,044.4497**

3.6 Building Construction - 2038

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	1.5392	6.9983	21.7892	0.0431		0.1142	0.1142		0.1142	0.1142		4,044.3271	4,044.3271	0.1375		4,047.7638

Total	**1.5392**	**6.9983**	**21.7892**	**0.0431**		**0.1142**	**0.1142**		**0.1142**	**0.1142**		**4,044.3271**	**4,044.3271**	**0.1375**		**4,047.7638**

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	0.1439	5.3998	1.6482	0.0199	0.5483	5.7400e-003	0.5541	0.1579	5.4800e-003	0.1633		2,176.4460	2,176.4460	0.1390		2,179.9207
Worker	0.5347	0.2991	4.1266	0.0187	2.8095	9.3200e-003	2.8188	0.7452	8.5700e-003	0.7538		1,863.7024	1,863.7024	0.0331		1,864.5290
Total	**0.6786**	**5.6989**	**5.7748**	**0.0386**	**3.3578**	**0.0151**	**3.3728**	**0.9031**	**0.0141**	**0.9171**		**4,040.1484**	**4,040.1484**	**0.1721**		**4,044.4497**

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	1.5392	6.9983	21.7892	0.0431		0.1142	0.1142		0.1142	0.1142	0.0000	4,044.3271	4,044.3271	0.1375		4,047.7638
Total	**1.5392**	**6.9983**	**21.7892**	**0.0431**		**0.1142**	**0.1142**		**0.1142**	**0.1142**	**0.0000**	**4,044.3271**	**4,044.3271**	**0.1375**		**4,047.7638**

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	0.1439	5.3998	1.6482	0.0199	0.5483	5.7400e-003	0.5541	0.1579	5.4800e-003	0.1633		2,176.4460	2,176.4460	0.1390		2,179.9207
Worker	0.5347	0.2991	4.1266	0.0187	2.8095	9.3200e-003	2.8188	0.7452	8.5700e-003	0.7538		1,863.7024	1,863.7024	0.0331		1,864.5290
Total	**0.6786**	**5.6989**	**5.7748**	**0.0386**	**3.3578**	**0.0151**	**3.3728**	**0.9031**	**0.0141**	**0.9171**		**4,040.1484**	**4,040.1484**	**0.1721**		**4,044.4497**

3.6 Building Construction - 2039

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	1.5392	6.9983	21.7892	0.0431		0.1142	0.1142		0.1142	0.1142		4,044.3271	4,044.3271	0.1375		4,047.7638
Total	**1.5392**	**6.9983**	**21.7892**	**0.0431**		**0.1142**	**0.1142**		**0.1142**	**0.1142**		**4,044.3271**	**4,044.3271**	**0.1375**		**4,047.7638**

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	0.1439	5.3998	1.6482	0.0199	0.5483	5.7400e-003	0.5541	0.1579	5.4800e-003	0.1633		2,176.4460	2,176.4460	0.1390		2,179.9207
Worker	0.5347	0.2991	4.1266	0.0187	2.8095	9.3200e-003	2.8188	0.7452	8.5700e-003	0.7538		1,863.7024	1,863.7024	0.0331		1,864.5290
Total	**0.6786**	**5.6989**	**5.7748**	**0.0386**	**3.3578**	**0.0151**	**3.3728**	**0.9031**	**0.0141**	**0.9171**		**4,040.1484**	**4,040.1484**	**0.1721**		**4,044.4497**

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	1.5392	6.9983	21.7892	0.0431		0.1142	0.1142		0.1142	0.1142	0.0000	4,044.3271	4,044.3271	0.1375		4,047.7638
Total	**1.5392**	**6.9983**	**21.7892**	**0.0431**		**0.1142**	**0.1142**		**0.1142**	**0.1142**	**0.0000**	**4,044.3271**	**4,044.3271**	**0.1375**		**4,047.7638**

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	0.1439	5.3998	1.6482	0.0199	0.5483	5.7400e-003	0.5541	0.1579	5.4800e-003	0.1633		2,176.4460	2,176.4460	0.1390		2,179.9207
Worker	0.5347	0.2991	4.1266	0.0187	2.8095	9.3200e-003	2.8188	0.7452	8.5700e-003	0.7538		1,863.7024	1,863.7024	0.0331		1,864.5290
Total	**0.6786**	**5.6989**	**5.7748**	**0.0386**	**3.3578**	**0.0151**	**3.3728**	**0.9031**	**0.0141**	**0.9171**		**4,040.1484**	**4,040.1484**	**0.1721**		**4,044.4497**

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	3.8879	18.7924	47.8309	0.2238	26.6053	0.0900	26.6952	7.1087	0.0837	7.1924		23,031.1099	23,031.1099	1.0563		23,057.5177
Unmitigated	3.8879	18.7924	47.8309	0.2238	26.6053	0.0900	26.6952	7.1087	0.0837	7.1924		23,031.1099	23,031.1099	1.0563		23,057.5177

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
City Park	57.10	687.28	505.72	450,904	450,904
Condo/Townhouse	1,743.00	1,701.00	1452.00	4,840,963	4,840,963
General Light Industry	2,091.00	396.00	204.00	4,610,742	4,610,742
Total	3,891.10	2,784.28	2,161.72	9,902,610	9,902,610

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
General Light Industry	9.50	7.30	7.30	59.00	28.00	13.00	92	5	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
General Light Industry	0.617015	0.036172	0.176461	0.096699	0.011030	0.005289	0.019152	0.027591	0.001967	0.001602	0.005530	0.000810	0.000683
City Park	0.617015	0.036172	0.176461	0.096699	0.011030	0.005289	0.019152	0.027591	0.001967	0.001602	0.005530	0.000810	0.000683
Condo/Townhouse	0.617015	0.036172	0.176461	0.096699	0.011030	0.005289	0.019152	0.027591	0.001967	0.001602	0.005530	0.000810	0.000683

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.2543	2.2288	1.3355	0.0139		0.1757	0.1757		0.1757	0.1757		2,773.7318	2,773.7318	0.0532	0.0509	2,790.2147
NaturalGas Unmitigated	0.2543	2.2288	1.3355	0.0139		0.1757	0.1757		0.1757	0.1757		2,773.7318	2,773.7318	0.0532	0.0509	2,790.2147

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					
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	14050.7	0.1515	1.2949	0.5510	8.2700e-003		0.1047	0.1047		0.1047	0.1047		1,653.0227	1,653.0227	0.0317	0.0303	1,662.8458
General Light Industry	9526.03	0.1027	0.9339	0.7845	5.6000e-003		0.0710	0.0710		0.0710	0.0710		1,120.7091	1,120.7091	0.0215	0.0206	1,127.3689
Total	**0.00001**	**0.2543**	**2.2288**	**1.3355**	**0.0139**		**0.1757**	**0.1757**		**0.1757**	**0.1757**		**2,773.7318**	**2,773.7318**	**0.0532**	**0.0509**	**2,790.2147**

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					
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	14.0507	0.1515	1.2949	0.5510	8.2700e-003		0.1047	0.1047		0.1047	0.1047		1,653.0227	1,653.0227	0.0317	0.0303	1,662.8458
General Light Industry	9.52603	0.1027	0.9339	0.7845	5.6000e-003		0.0710	0.0710		0.0710	0.0710		1,120.7091	1,120.7091	0.0215	0.0206	1,127.3689
Total	**0.00001**	**0.2543**	**2.2288**	**1.3355**	**0.0139**		**0.1757**	**0.1757**		**0.1757**	**0.1757**		**2,773.7318**	**2,773.7318**	**0.0532**	**0.0509**	**2,790.2147**

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	477.1748	9.2508	591.4071	1.0281		79.5986	79.5986		79.5986	79.5986	8,331.5192	3,538.7556	11,870.2748	7.7312	0.6553	12,258.8456

Unmitigated	477.1748	9.2508	591.4071	1.0281		79.5986	79.5986		79.5986	79.5986	8,331.5192	3,538.7556	11,870.2748	7.7312	0.6553	12,258.8456

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	4.4763					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	12.8400					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	459.1185	8.9661	566.7319	1.0268		79.4612	79.4612		79.4612	79.4612	8,331.5192	3,494.1177	11,825.6369	7.6886	0.6553	12,213.1425
Landscaping	0.7401	0.2847	24.6752	1.3100e-003		0.1374	0.1374		0.1374	0.1374		44.6380	44.6380	0.0426		45.7031
Total	**477.1748**	**9.2508**	**591.4071**	**1.0281**		**79.5986**	**79.5986**		**79.5986**	**79.5986**	**8,331.5192**	**3,538.7556**	**11,870.2748**	**7.7312**	**0.6553**	**12,258.8456**

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	4.4763					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	12.8400					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	459.1185	8.9661	566.7319	1.0268		79.4612	79.4612		79.4612	79.4612	8,331.5192	3,494.1177	11,825.6369	7.6886	0.6553	12,213.1425
Landscaping	0.7401	0.2847	24.6752	1.3100e-003		0.1374	0.1374		0.1374	0.1374		44.6380	44.6380	0.0426		45.7031

Total	477.1748	9.2508	591.4071	1.0281		79.5986	79.5986		79.5986	79.5986	8,331.5192	3,538.7556	11,870.2748	7.7312	0.6553	12,258.8456

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

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

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

Boilers

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

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

Stone Creek Phase 1, 2A, 2B

San Diego Air Basin, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Office Park	135.00	1000sqft	3.10	135,000.00	0
General Light Industry	165.00	1000sqft	3.79	165,000.00	0
General Light Industry	250.00	1000sqft	5.74	250,000.00	0
City Park	5.98	Acre	5.98	260,488.80	0
Condo/Townhouse	585.00	Dwelling Unit	36.56	585,000.00	1673
Condo/Townhouse	2,725.00	Dwelling Unit	170.31	2,725,000.00	7794
Strip Mall	24.00	1000sqft	0.55	24,000.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.6	**Precipitation Freq (Days)**	40
Climate Zone	13			**Operational Year**	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

Project Characteristics -

Land Use - Based on project description

Vehicle Trips - Based on traffic analysis

Vehicle Emission Factors -

Vehicle Emission Factors -

Vehicle Emission Factors -

Woodstoves - Natural gas fireplaces

Area Coating - Ruel 67.0.1 coatings

Energy Use -

Mobile Land Use Mitigation -

Energy Mitigation -

Water Mitigation -

Table Name	Column Name	Default Value	New Value
tblAreaCoating	Area_EF_Nonresidential_Exterior	250	100
tblAreaCoating	Area_EF_Nonresidential_Interior	250	50
tblAreaCoating	Area_EF_Residential_Exterior	250	100
tblAreaCoating	Area_EF_Residential_Interior	250	50
tblFireplaces	NumberGas	1,820.50	1,655.00
tblFireplaces	NumberNoFireplace	331.00	0.00
tblFireplaces	NumberWood	1,158.50	0.00
tblFleetMix	HHD	0.02	0.03
tblFleetMix	HHD	0.02	0.03
tblFleetMix	HHD	0.02	0.03
tblFleetMix	HHD	0.02	0.03
tblFleetMix	HHD	0.02	0.03
tblFleetMix	HHD	0.02	0.03
tblFleetMix	HHD	0.02	0.03
tblFleetMix	LDA	0.57	0.62
tblFleetMix	LDA	0.57	0.62
tblFleetMix	LDA	0.57	0.62
tblFleetMix	LDA	0.57	0.62
tblFleetMix	LDA	0.57	0.62
tblFleetMix	LDA	0.57	0.62
tblFleetMix	LDA	0.57	0.62
tblFleetMix	LDT1	0.05	0.04

tblFleetMix	LDT1	0.05	0.04
tblFleetMix	LDT1	0.05	0.04
tblFleetMix	LDT1	0.05	0.04
tblFleetMix	LDT1	0.05	0.04
tblFleetMix	LDT1	0.05	0.04
tblFleetMix	LDT1	0.05	0.04
tblFleetMix	LDT2	0.19	0.18
tblFleetMix	LDT2	0.19	0.18
tblFleetMix	LDT2	0.19	0.18
tblFleetMix	LDT2	0.19	0.18
tblFleetMix	LDT2	0.19	0.18
tblFleetMix	LDT2	0.19	0.18
tblFleetMix	LDT2	0.19	0.18
tblFleetMix	LHD1	0.02	0.01
tblFleetMix	LHD1	0.02	0.01
tblFleetMix	LHD1	0.02	0.01
tblFleetMix	LHD1	0.02	0.01
tblFleetMix	LHD1	0.02	0.01
tblFleetMix	LHD1	0.02	0.01
tblFleetMix	LHD1	0.02	0.01
tblFleetMix	LHD2	5.6460e-003	5.2790e-003
tblFleetMix	LHD2	5.6460e-003	5.2790e-003
tblFleetMix	LHD2	5.6460e-003	5.2790e-003
tblFleetMix	LHD2	5.6460e-003	5.2790e-003
tblFleetMix	LHD2	5.6460e-003	5.2790e-003
tblFleetMix	LHD2	5.6460e-003	5.2790e-003
tblFleetMix	LHD2	5.6460e-003	5.2790e-003
tblFleetMix	MCY	6.3850e-003	5.6170e-003
tblFleetMix	MCY	6.3850e-003	5.6170e-003
tblFleetMix	MCY	6.3850e-003	5.6170e-003

tblFleetMix	MCY	6.3850e-003	5.6170e-003
tblFleetMix	MCY	6.3850e-003	5.6170e-003
tblFleetMix	MCY	6.3850e-003	5.6170e-003
tblFleetMix	MCY	6.3850e-003	5.6170e-003
tblFleetMix	MDV	0.12	0.10
tblFleetMix	MDV	0.12	0.10
tblFleetMix	MDV	0.12	0.10
tblFleetMix	MDV	0.12	0.10
tblFleetMix	MDV	0.12	0.10
tblFleetMix	MDV	0.12	0.10
tblFleetMix	MDV	0.12	0.10
tblFleetMix	MH	1.4520e-003	7.8200e-004
tblFleetMix	MH	1.4520e-003	7.8200e-004
tblFleetMix	MH	1.4520e-003	7.8200e-004
tblFleetMix	MH	1.4520e-003	7.8200e-004
tblFleetMix	MH	1.4520e-003	7.8200e-004
tblFleetMix	MH	1.4520e-003	7.8200e-004
tblFleetMix	MH	1.4520e-003	7.8200e-004
tblFleetMix	MHD	0.01	0.02
tblFleetMix	MHD	0.01	0.02
tblFleetMix	MHD	0.01	0.02
tblFleetMix	MHD	0.01	0.02
tblFleetMix	MHD	0.01	0.02
tblFleetMix	MHD	0.01	0.02
tblFleetMix	MHD	0.01	0.02
tblFleetMix	OBUS	1.8710e-003	1.9310e-003
tblFleetMix	OBUS	1.8710e-003	1.9310e-003
tblFleetMix	OBUS	1.8710e-003	1.9310e-003
tblFleetMix	OBUS	1.8710e-003	1.9310e-003
tblFleetMix	OBUS	1.8710e-003	1.9310e-003

tblFleetMix	OBUS	1.8710e-003	1.9310e-003
tblFleetMix	OBUS	1.8710e-003	1.9310e-003
tblFleetMix	SBUS	7.3900e-004	7.8500e-004
tblFleetMix	SBUS	7.3900e-004	7.8500e-004
tblFleetMix	SBUS	7.3900e-004	7.8500e-004
tblFleetMix	SBUS	7.3900e-004	7.8500e-004
tblFleetMix	SBUS	7.3900e-004	7.8500e-004
tblFleetMix	SBUS	7.3900e-004	7.8500e-004
tblFleetMix	SBUS	7.3900e-004	7.8500e-004
tblFleetMix	UBUS	2.1730e-003	1.6770e-003
tblFleetMix	UBUS	2.1730e-003	1.6770e-003
tblFleetMix	UBUS	2.1730e-003	1.6770e-003
tblFleetMix	UBUS	2.1730e-003	1.6770e-003
tblFleetMix	UBUS	2.1730e-003	1.6770e-003
tblFleetMix	UBUS	2.1730e-003	1.6770e-003
tblFleetMix	UBUS	2.1730e-003	1.6770e-003
tblVehicleEF	HHD	0.90	0.45
tblVehicleEF	HHD	0.12	0.14
tblVehicleEF	HHD	0.16	0.05
tblVehicleEF	HHD	3.25	1.51
tblVehicleEF	HHD	1.16	1.20
tblVehicleEF	HHD	4.23	3.60
tblVehicleEF	HHD	4,736.31	4,164.31
tblVehicleEF	HHD	1,724.07	1,529.79
tblVehicleEF	HHD	11.59	11.27
tblVehicleEF	HHD	0.02	0.03
tblVehicleEF	HHD	25.87	12.87
tblVehicleEF	HHD	5.06	1.56
tblVehicleEF	HHD	19.65	19.33
tblVehicleEF	HHD	0.04	4.7760e-003

tblVehicleEF	HHD	0.06	0.06
tblVehicleEF	HHD	0.04	0.04
tblVehicleEF	HHD	0.03	5.5740e-003
tblVehicleEF	HHD	2.2000e-004	1.2300e-004
tblVehicleEF	HHD	0.04	4.5690e-003
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	8.8140e-003	8.8090e-003
tblVehicleEF	HHD	0.03	5.3320e-003
tblVehicleEF	HHD	2.0600e-004	1.1300e-004
tblVehicleEF	HHD	1.5400e-004	8.3000e-005
tblVehicleEF	HHD	9.7110e-003	4.1090e-003
tblVehicleEF	HHD	0.81	0.37
tblVehicleEF	HHD	1.3700e-004	8.1000e-005
tblVehicleEF	HHD	0.16	0.08
tblVehicleEF	HHD	9.2000e-004	3.8000e-004
tblVehicleEF	HHD	0.17	0.06
tblVehicleEF	HHD	0.04	0.04
tblVehicleEF	HHD	0.02	0.01
tblVehicleEF	HHD	1.8700e-004	1.7100e-004
tblVehicleEF	HHD	1.5400e-004	8.3000e-005
tblVehicleEF	HHD	9.7110e-003	4.1090e-003
tblVehicleEF	HHD	0.95	0.45
tblVehicleEF	HHD	1.3700e-004	8.1000e-005
tblVehicleEF	HHD	0.30	0.23
tblVehicleEF	HHD	9.2000e-004	3.8000e-004
tblVehicleEF	HHD	0.18	0.07
tblVehicleEF	HHD	0.85	0.43
tblVehicleEF	HHD	0.12	0.14
tblVehicleEF	HHD	0.16	0.05
tblVehicleEF	HHD	2.38	1.10

tblVehicleEF	HHD	1.16	1.21
tblVehicleEF	HHD	3.99	3.38
tblVehicleEF	HHD	5,012.84	4,411.72
tblVehicleEF	HHD	1,724.07	1,529.79
tblVehicleEF	HHD	11.59	11.27
tblVehicleEF	HHD	0.02	0.03
tblVehicleEF	HHD	26.69	13.28
tblVehicleEF	HHD	4.87	1.50
tblVehicleEF	HHD	19.63	19.31
tblVehicleEF	HHD	0.04	4.0260e-003
tblVehicleEF	HHD	0.06	0.06
tblVehicleEF	HHD	0.04	0.04
tblVehicleEF	HHD	0.03	5.5740e-003
tblVehicleEF	HHD	2.2000e-004	1.2300e-004
tblVehicleEF	HHD	0.04	3.8520e-003
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	8.8140e-003	8.8090e-003
tblVehicleEF	HHD	0.03	5.3320e-003
tblVehicleEF	HHD	2.0600e-004	1.1300e-004
tblVehicleEF	HHD	2.3700e-004	1.2200e-004
tblVehicleEF	HHD	9.9220e-003	4.2400e-003
tblVehicleEF	HHD	0.77	0.35
tblVehicleEF	HHD	2.6100e-004	1.3600e-004
tblVehicleEF	HHD	0.16	0.08
tblVehicleEF	HHD	9.0700e-004	3.6200e-004
tblVehicleEF	HHD	0.16	0.06
tblVehicleEF	HHD	0.05	0.04
tblVehicleEF	HHD	0.02	0.01
tblVehicleEF	HHD	1.8300e-004	1.6800e-004
tblVehicleEF	HHD	2.3700e-004	1.2200e-004

tblVehicleEF	HHD	9.9220e-003	4.2400e-003
tblVehicleEF	HHD	0.90	0.42
tblVehicleEF	HHD	2.6100e-004	1.3600e-004
tblVehicleEF	HHD	0.30	0.23
tblVehicleEF	HHD	9.0700e-004	3.6200e-004
tblVehicleEF	HHD	0.17	0.07
tblVehicleEF	HHD	0.97	0.49
tblVehicleEF	HHD	0.12	0.14
tblVehicleEF	HHD	0.17	0.06
tblVehicleEF	HHD	4.46	2.09
tblVehicleEF	HHD	1.15	1.20
tblVehicleEF	HHD	4.34	3.69
tblVehicleEF	HHD	4,354.42	3,822.66
tblVehicleEF	HHD	1,724.07	1,529.79
tblVehicleEF	HHD	11.59	11.27
tblVehicleEF	HHD	0.02	0.03
tblVehicleEF	HHD	24.74	12.30
tblVehicleEF	HHD	5.05	1.55
tblVehicleEF	HHD	19.66	19.34
tblVehicleEF	HHD	0.05	5.8110e-003
tblVehicleEF	HHD	0.06	0.06
tblVehicleEF	HHD	0.04	0.04
tblVehicleEF	HHD	0.03	5.5740e-003
tblVehicleEF	HHD	2.2000e-004	1.2300e-004
tblVehicleEF	HHD	0.05	5.5590e-003
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	8.8140e-003	8.8090e-003
tblVehicleEF	HHD	0.03	5.3320e-003
tblVehicleEF	HHD	2.0600e-004	1.1300e-004
tblVehicleEF	HHD	1.4100e-004	7.0000e-005

tblVehicleEF	HHD	0.01	4.3390e-003
tblVehicleEF	HHD	0.87	0.40
tblVehicleEF	HHD	1.1900e-004	7.1000e-005
tblVehicleEF	HHD	0.16	0.08
tblVehicleEF	HHD	9.9800e-004	4.2600e-004
tblVehicleEF	HHD	0.17	0.07
tblVehicleEF	HHD	0.04	0.03
tblVehicleEF	HHD	0.02	0.01
tblVehicleEF	HHD	1.8900e-004	1.7300e-004
tblVehicleEF	HHD	1.4100e-004	7.0000e-005
tblVehicleEF	HHD	0.01	4.3390e-003
tblVehicleEF	HHD	1.03	0.48
tblVehicleEF	HHD	1.1900e-004	7.1000e-005
tblVehicleEF	HHD	0.30	0.23
tblVehicleEF	HHD	9.9800e-004	4.2600e-004
tblVehicleEF	HHD	0.19	0.07
tblVehicleEF	LDA	8.9880e-003	4.5090e-003
tblVehicleEF	LDA	0.01	4.9600e-003
tblVehicleEF	LDA	0.79	0.43
tblVehicleEF	LDA	2.14	0.99
tblVehicleEF	LDA	302.73	192.33
tblVehicleEF	LDA	64.65	41.79
tblVehicleEF	LDA	0.57	0.62
tblVehicleEF	LDA	0.09	0.04
tblVehicleEF	LDA	0.13	0.04
tblVehicleEF	LDA	1.9100e-003	1.2630e-003
tblVehicleEF	LDA	2.2820e-003	1.8190e-003
tblVehicleEF	LDA	1.7640e-003	1.1620e-003
tblVehicleEF	LDA	2.1000e-003	1.6730e-003
tblVehicleEF	LDA	0.04	0.02

tblVehicleEF	LDA	0.12	0.05
tblVehicleEF	LDA	0.04	0.02
tblVehicleEF	LDA	0.02	0.01
tblVehicleEF	LDA	0.04	0.03
tblVehicleEF	LDA	0.17	0.07
tblVehicleEF	LDA	3.0340e-003	1.9260e-003
tblVehicleEF	LDA	6.8500e-004	4.3500e-004
tblVehicleEF	LDA	0.04	0.02
tblVehicleEF	LDA	0.12	0.05
tblVehicleEF	LDA	0.04	0.02
tblVehicleEF	LDA	0.03	0.02
tblVehicleEF	LDA	0.04	0.03
tblVehicleEF	LDA	0.18	0.07
tblVehicleEF	LDA	9.6570e-003	4.8600e-003
tblVehicleEF	LDA	0.01	4.3360e-003
tblVehicleEF	LDA	0.89	0.48
tblVehicleEF	LDA	1.78	0.82
tblVehicleEF	LDA	320.02	203.23
tblVehicleEF	LDA	64.65	41.79
tblVehicleEF	LDA	0.57	0.62
tblVehicleEF	LDA	0.08	0.04
tblVehicleEF	LDA	0.12	0.04
tblVehicleEF	LDA	1.9100e-003	1.2630e-003
tblVehicleEF	LDA	2.2820e-003	1.8190e-003
tblVehicleEF	LDA	1.7640e-003	1.1620e-003
tblVehicleEF	LDA	2.1000e-003	1.6730e-003
tblVehicleEF	LDA	0.06	0.03
tblVehicleEF	LDA	0.13	0.06
tblVehicleEF	LDA	0.07	0.03
tblVehicleEF	LDA	0.03	0.01

tblVehicleEF	LDA	0.04	0.03
tblVehicleEF	LDA	0.15	0.06
tblVehicleEF	LDA	3.2080e-003	2.0350e-003
tblVehicleEF	LDA	6.7800e-004	4.3200e-004
tblVehicleEF	LDA	0.06	0.03
tblVehicleEF	LDA	0.13	0.06
tblVehicleEF	LDA	0.07	0.03
tblVehicleEF	LDA	0.04	0.02
tblVehicleEF	LDA	0.04	0.03
tblVehicleEF	LDA	0.16	0.06
tblVehicleEF	LDA	8.8490e-003	4.4310e-003
tblVehicleEF	LDA	0.01	5.2140e-003
tblVehicleEF	LDA	0.78	0.42
tblVehicleEF	LDA	2.30	1.06
tblVehicleEF	LDA	299.60	190.35
tblVehicleEF	LDA	64.65	41.79
tblVehicleEF	LDA	0.57	0.62
tblVehicleEF	LDA	0.09	0.04
tblVehicleEF	LDA	0.14	0.05
tblVehicleEF	LDA	1.9100e-003	1.2630e-003
tblVehicleEF	LDA	2.2820e-003	1.8190e-003
tblVehicleEF	LDA	1.7640e-003	1.1620e-003
tblVehicleEF	LDA	2.1000e-003	1.6730e-003
tblVehicleEF	LDA	0.03	0.01
tblVehicleEF	LDA	0.14	0.06
tblVehicleEF	LDA	0.04	0.02
tblVehicleEF	LDA	0.02	0.01
tblVehicleEF	LDA	0.05	0.04
tblVehicleEF	LDA	0.18	0.07
tblVehicleEF	LDA	3.0020e-003	1.9060e-003

tblVehicleEF	LDA	6.8700e-004	4.3600e-004
tblVehicleEF	LDA	0.03	0.01
tblVehicleEF	LDA	0.14	0.06
tblVehicleEF	LDA	0.04	0.02
tblVehicleEF	LDA	0.03	0.02
tblVehicleEF	LDA	0.05	0.04
tblVehicleEF	LDA	0.19	0.08
tblVehicleEF	LDT1	0.02	5.1520e-003
tblVehicleEF	LDT1	0.02	6.6990e-003
tblVehicleEF	LDT1	1.85	0.64
tblVehicleEF	LDT1	4.41	1.45
tblVehicleEF	LDT1	366.29	256.31
tblVehicleEF	LDT1	77.67	56.62
tblVehicleEF	LDT1	0.05	0.04
tblVehicleEF	LDT1	0.20	0.06
tblVehicleEF	LDT1	0.27	0.08
tblVehicleEF	LDT1	3.2940e-003	1.7250e-003
tblVehicleEF	LDT1	4.0330e-003	2.3780e-003
tblVehicleEF	LDT1	3.0370e-003	1.5860e-003
tblVehicleEF	LDT1	3.7120e-003	2.1860e-003
tblVehicleEF	LDT1	0.13	0.07
tblVehicleEF	LDT1	0.35	0.17
tblVehicleEF	LDT1	0.13	0.07
tblVehicleEF	LDT1	0.05	0.01
tblVehicleEF	LDT1	0.24	0.13
tblVehicleEF	LDT1	0.32	0.09
tblVehicleEF	LDT1	3.6870e-003	2.5690e-003
tblVehicleEF	LDT1	8.5500e-004	5.9100e-004
tblVehicleEF	LDT1	0.13	0.07
tblVehicleEF	LDT1	0.35	0.17

tblVehicleEF	LDT1	0.13	0.07
tblVehicleEF	LDT1	0.07	0.02
tblVehicleEF	LDT1	0.24	0.13
tblVehicleEF	LDT1	0.35	0.10
tblVehicleEF	LDT1	0.02	5.5250e-003
tblVehicleEF	LDT1	0.02	5.8260e-003
tblVehicleEF	LDT1	2.03	0.72
tblVehicleEF	LDT1	3.63	1.20
tblVehicleEF	LDT1	385.96	270.38
tblVehicleEF	LDT1	77.67	56.62
tblVehicleEF	LDT1	0.05	0.04
tblVehicleEF	LDT1	0.18	0.06
tblVehicleEF	LDT1	0.24	0.07
tblVehicleEF	LDT1	3.2940e-003	1.7250e-003
tblVehicleEF	LDT1	4.0330e-003	2.3780e-003
tblVehicleEF	LDT1	3.0370e-003	1.5860e-003
tblVehicleEF	LDT1	3.7120e-003	2.1860e-003
tblVehicleEF	LDT1	0.20	0.10
tblVehicleEF	LDT1	0.37	0.18
tblVehicleEF	LDT1	0.22	0.12
tblVehicleEF	LDT1	0.05	0.01
tblVehicleEF	LDT1	0.22	0.12
tblVehicleEF	LDT1	0.28	0.08
tblVehicleEF	LDT1	3.8860e-003	2.7110e-003
tblVehicleEF	LDT1	8.4100e-004	5.8700e-004
tblVehicleEF	LDT1	0.20	0.10
tblVehicleEF	LDT1	0.37	0.18
tblVehicleEF	LDT1	0.22	0.12
tblVehicleEF	LDT1	0.07	0.02
tblVehicleEF	LDT1	0.22	0.12

tblVehicleEF	LDT1	0.31	0.09
tblVehicleEF	LDT1	0.02	5.0690e-003
tblVehicleEF	LDT1	0.03	7.0560e-003
tblVehicleEF	LDT1	1.83	0.63
tblVehicleEF	LDT1	4.75	1.56
tblVehicleEF	LDT1	362.74	253.77
tblVehicleEF	LDT1	77.67	56.62
tblVehicleEF	LDT1	0.05	0.04
tblVehicleEF	LDT1	0.20	0.06
tblVehicleEF	LDT1	0.28	0.08
tblVehicleEF	LDT1	3.2940e-003	1.7250e-003
tblVehicleEF	LDT1	4.0330e-003	2.3780e-003
tblVehicleEF	LDT1	3.0370e-003	1.5860e-003
tblVehicleEF	LDT1	3.7120e-003	2.1860e-003
tblVehicleEF	LDT1	0.11	0.05
tblVehicleEF	LDT1	0.41	0.20
tblVehicleEF	LDT1	0.11	0.06
tblVehicleEF	LDT1	0.05	0.01
tblVehicleEF	LDT1	0.29	0.16
tblVehicleEF	LDT1	0.34	0.10
tblVehicleEF	LDT1	3.6510e-003	2.5430e-003
tblVehicleEF	LDT1	8.6100e-004	5.9300e-004
tblVehicleEF	LDT1	0.11	0.05
tblVehicleEF	LDT1	0.41	0.20
tblVehicleEF	LDT1	0.11	0.06
tblVehicleEF	LDT1	0.07	0.02
tblVehicleEF	LDT1	0.29	0.16
tblVehicleEF	LDT1	0.37	0.10
tblVehicleEF	LDT2	8.3320e-003	3.1590e-003
tblVehicleEF	LDT2	0.01	2.9700e-003

tblVehicleEF	LDT2	0.96	0.47
tblVehicleEF	LDT2	2.28	0.83
tblVehicleEF	LDT2	417.16	280.32
tblVehicleEF	LDT2	89.41	60.83
tblVehicleEF	LDT2	0.19	0.18
tblVehicleEF	LDT2	0.12	0.04
tblVehicleEF	LDT2	0.21	0.05
tblVehicleEF	LDT2	1.7410e-003	1.4240e-003
tblVehicleEF	LDT2	2.1940e-003	2.0110e-003
tblVehicleEF	LDT2	1.6020e-003	1.3100e-003
tblVehicleEF	LDT2	2.0190e-003	1.8490e-003
tblVehicleEF	LDT2	0.05	0.03
tblVehicleEF	LDT2	0.14	0.07
tblVehicleEF	LDT2	0.06	0.04
tblVehicleEF	LDT2	0.02	7.8470e-003
tblVehicleEF	LDT2	0.08	0.05
tblVehicleEF	LDT2	0.15	0.04
tblVehicleEF	LDT2	4.1800e-003	2.8050e-003
tblVehicleEF	LDT2	9.3300e-004	6.2100e-004
tblVehicleEF	LDT2	0.05	0.03
tblVehicleEF	LDT2	0.14	0.07
tblVehicleEF	LDT2	0.06	0.04
tblVehicleEF	LDT2	0.03	0.01
tblVehicleEF	LDT2	0.08	0.05
tblVehicleEF	LDT2	0.17	0.04
tblVehicleEF	LDT2	8.9220e-003	3.4010e-003
tblVehicleEF	LDT2	9.8930e-003	2.6070e-003
tblVehicleEF	LDT2	1.07	0.52
tblVehicleEF	LDT2	1.89	0.70
tblVehicleEF	LDT2	440.30	295.89

tblVehicleEF	LDT2	89.41	60.83
tblVehicleEF	LDT2	0.19	0.18
tblVehicleEF	LDT2	0.10	0.04
tblVehicleEF	LDT2	0.19	0.04
tblVehicleEF	LDT2	1.7410e-003	1.4240e-003
tblVehicleEF	LDT2	2.1940e-003	2.0110e-003
tblVehicleEF	LDT2	1.6020e-003	1.3100e-003
tblVehicleEF	LDT2	2.0190e-003	1.8490e-003
tblVehicleEF	LDT2	0.07	0.04
tblVehicleEF	LDT2	0.15	0.07
tblVehicleEF	LDT2	0.10	0.06
tblVehicleEF	LDT2	0.02	8.4450e-003
tblVehicleEF	LDT2	0.07	0.05
tblVehicleEF	LDT2	0.13	0.04
tblVehicleEF	LDT2	4.4120e-003	2.9620e-003
tblVehicleEF	LDT2	9.2700e-004	6.1900e-004
tblVehicleEF	LDT2	0.07	0.04
tblVehicleEF	LDT2	0.15	0.07
tblVehicleEF	LDT2	0.10	0.06
tblVehicleEF	LDT2	0.03	0.01
tblVehicleEF	LDT2	0.07	0.05
tblVehicleEF	LDT2	0.15	0.04
tblVehicleEF	LDT2	8.2100e-003	3.1060e-003
tblVehicleEF	LDT2	0.01	3.1190e-003
tblVehicleEF	LDT2	0.94	0.46
tblVehicleEF	LDT2	2.45	0.88
tblVehicleEF	LDT2	412.98	277.50
tblVehicleEF	LDT2	89.41	60.83
tblVehicleEF	LDT2	0.19	0.18
tblVehicleEF	LDT2	0.12	0.04

tblVehicleEF	LDT2	0.22	0.05
tblVehicleEF	LDT2	1.7410e-003	1.4240e-003
tblVehicleEF	LDT2	2.1940e-003	2.0110e-003
tblVehicleEF	LDT2	1.6020e-003	1.3100e-003
tblVehicleEF	LDT2	2.0190e-003	1.8490e-003
tblVehicleEF	LDT2	0.04	0.02
tblVehicleEF	LDT2	0.16	0.07
tblVehicleEF	LDT2	0.05	0.03
tblVehicleEF	LDT2	0.02	7.7150e-003
tblVehicleEF	LDT2	0.10	0.06
tblVehicleEF	LDT2	0.16	0.04
tblVehicleEF	LDT2	4.1380e-003	2.7770e-003
tblVehicleEF	LDT2	9.3600e-004	6.2200e-004
tblVehicleEF	LDT2	0.04	0.02
tblVehicleEF	LDT2	0.16	0.07
tblVehicleEF	LDT2	0.05	0.03
tblVehicleEF	LDT2	0.03	0.01
tblVehicleEF	LDT2	0.10	0.06
tblVehicleEF	LDT2	0.18	0.05
tblVehicleEF	LHD1	5.8110e-003	3.4680e-003
tblVehicleEF	LHD1	0.03	8.7340e-003
tblVehicleEF	LHD1	0.02	9.1570e-003
tblVehicleEF	LHD1	0.15	0.13
tblVehicleEF	LHD1	1.51	0.65
tblVehicleEF	LHD1	3.03	1.44
tblVehicleEF	LHD1	9.27	9.16
tblVehicleEF	LHD1	711.61	629.29
tblVehicleEF	LHD1	31.71	23.34
tblVehicleEF	LHD1	0.02	0.01
tblVehicleEF	LHD1	0.09	0.08

tblVehicleEF	LHD1	2.11	0.73
tblVehicleEF	LHD1	1.04	0.57
tblVehicleEF	LHD1	9.8800e-004	9.1500e-004
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	0.02	0.01
tblVehicleEF	LHD1	1.1430e-003	5.8400e-004
tblVehicleEF	LHD1	9.4600e-004	8.7500e-004
tblVehicleEF	LHD1	2.5170e-003	2.6490e-003
tblVehicleEF	LHD1	0.02	0.01
tblVehicleEF	LHD1	1.0540e-003	5.3700e-004
tblVehicleEF	LHD1	2.5040e-003	1.4830e-003
tblVehicleEF	LHD1	0.10	0.07
tblVehicleEF	LHD1	0.02	0.01
tblVehicleEF	LHD1	1.7880e-003	1.2180e-003
tblVehicleEF	LHD1	0.16	0.11
tblVehicleEF	LHD1	0.30	0.23
tblVehicleEF	LHD1	0.31	0.12
tblVehicleEF	LHD1	9.3000e-005	9.0000e-005
tblVehicleEF	LHD1	6.9900e-003	6.1350e-003
tblVehicleEF	LHD1	3.7400e-004	2.6000e-004
tblVehicleEF	LHD1	2.5040e-003	1.4830e-003
tblVehicleEF	LHD1	0.10	0.07
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	1.7880e-003	1.2180e-003
tblVehicleEF	LHD1	0.20	0.12
tblVehicleEF	LHD1	0.30	0.23
tblVehicleEF	LHD1	0.34	0.14
tblVehicleEF	LHD1	5.8110e-003	3.4680e-003
tblVehicleEF	LHD1	0.03	8.8400e-003
tblVehicleEF	LHD1	0.02	8.7530e-003

tblVehicleEF	LHD1	0.15	0.13
tblVehicleEF	LHD1	1.53	0.66
tblVehicleEF	LHD1	2.86	1.36
tblVehicleEF	LHD1	9.27	9.16
tblVehicleEF	LHD1	711.61	629.29
tblVehicleEF	LHD1	31.71	23.34
tblVehicleEF	LHD1	0.02	0.01
tblVehicleEF	LHD1	0.09	0.08
tblVehicleEF	LHD1	2.02	0.70
tblVehicleEF	LHD1	0.99	0.54
tblVehicleEF	LHD1	9.8800e-004	9.1500e-004
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	0.02	0.01
tblVehicleEF	LHD1	1.1430e-003	5.8400e-004
tblVehicleEF	LHD1	9.4600e-004	8.7500e-004
tblVehicleEF	LHD1	2.5170e-003	2.6490e-003
tblVehicleEF	LHD1	0.02	0.01
tblVehicleEF	LHD1	1.0540e-003	5.3700e-004
tblVehicleEF	LHD1	3.6390e-003	2.1340e-003
tblVehicleEF	LHD1	0.10	0.07
tblVehicleEF	LHD1	0.02	0.01
tblVehicleEF	LHD1	3.0850e-003	2.0120e-003
tblVehicleEF	LHD1	0.16	0.11
tblVehicleEF	LHD1	0.29	0.23
tblVehicleEF	LHD1	0.30	0.12
tblVehicleEF	LHD1	9.3000e-005	9.0000e-005
tblVehicleEF	LHD1	6.9910e-003	6.1350e-003
tblVehicleEF	LHD1	3.7100e-004	2.5800e-004
tblVehicleEF	LHD1	3.6390e-003	2.1340e-003
tblVehicleEF	LHD1	0.10	0.07

tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	3.0850e-003	2.0120e-003
tblVehicleEF	LHD1	0.20	0.12
tblVehicleEF	LHD1	0.29	0.23
tblVehicleEF	LHD1	0.32	0.13
tblVehicleEF	LHD1	5.8110e-003	3.4680e-003
tblVehicleEF	LHD1	0.03	8.6870e-003
tblVehicleEF	LHD1	0.02	9.3380e-003
tblVehicleEF	LHD1	0.15	0.13
tblVehicleEF	LHD1	1.50	0.65
tblVehicleEF	LHD1	3.10	1.47
tblVehicleEF	LHD1	9.27	9.16
tblVehicleEF	LHD1	711.61	629.29
tblVehicleEF	LHD1	31.71	23.34
tblVehicleEF	LHD1	0.02	0.01
tblVehicleEF	LHD1	0.09	0.08
tblVehicleEF	LHD1	2.10	0.73
tblVehicleEF	LHD1	1.06	0.58
tblVehicleEF	LHD1	9.8800e-004	9.1500e-004
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	0.02	0.01
tblVehicleEF	LHD1	1.1430e-003	5.8400e-004
tblVehicleEF	LHD1	9.4600e-004	8.7500e-004
tblVehicleEF	LHD1	2.5170e-003	2.6490e-003
tblVehicleEF	LHD1	0.02	0.01
tblVehicleEF	LHD1	1.0540e-003	5.3700e-004
tblVehicleEF	LHD1	2.3660e-003	1.3290e-003
tblVehicleEF	LHD1	0.12	0.08
tblVehicleEF	LHD1	0.02	0.01
tblVehicleEF	LHD1	1.5810e-003	1.0740e-003

tblVehicleEF	LHD1	0.16	0.11
tblVehicleEF	LHD1	0.33	0.26
tblVehicleEF	LHD1	0.32	0.13
tblVehicleEF	LHD1	9.3000e-005	9.0000e-005
tblVehicleEF	LHD1	6.9900e-003	6.1350e-003
tblVehicleEF	LHD1	3.7600e-004	2.6000e-004
tblVehicleEF	LHD1	2.3660e-003	1.3290e-003
tblVehicleEF	LHD1	0.12	0.08
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	1.5810e-003	1.0740e-003
tblVehicleEF	LHD1	0.20	0.12
tblVehicleEF	LHD1	0.33	0.26
tblVehicleEF	LHD1	0.35	0.14
tblVehicleEF	LHD2	4.3370e-003	2.5650e-003
tblVehicleEF	LHD2	0.01	5.2260e-003
tblVehicleEF	LHD2	0.01	3.2150e-003
tblVehicleEF	LHD2	0.13	0.12
tblVehicleEF	LHD2	0.81	0.45
tblVehicleEF	LHD2	1.57	0.86
tblVehicleEF	LHD2	14.30	13.65
tblVehicleEF	LHD2	747.65	675.38
tblVehicleEF	LHD2	26.59	21.91
tblVehicleEF	LHD2	5.6460e-003	5.2790e-003
tblVehicleEF	LHD2	0.12	0.07
tblVehicleEF	LHD2	1.59	0.25
tblVehicleEF	LHD2	0.62	0.27
tblVehicleEF	LHD2	1.3200e-003	1.0480e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.02	9.4780e-003
tblVehicleEF	LHD2	5.3600e-004	3.6400e-004

tblVehicleEF	LHD2	1.2630e-003	1.0030e-003
tblVehicleEF	LHD2	2.6630e-003	2.7070e-003
tblVehicleEF	LHD2	0.02	9.0450e-003
tblVehicleEF	LHD2	4.9400e-004	3.3500e-004
tblVehicleEF	LHD2	1.0640e-003	4.7000e-004
tblVehicleEF	LHD2	0.04	0.02
tblVehicleEF	LHD2	0.02	0.01
tblVehicleEF	LHD2	7.9800e-004	4.3800e-004
tblVehicleEF	LHD2	0.13	0.09
tblVehicleEF	LHD2	0.10	0.04
tblVehicleEF	LHD2	0.16	0.04
tblVehicleEF	LHD2	1.4000e-004	1.3300e-004
tblVehicleEF	LHD2	7.2820e-003	6.5620e-003
tblVehicleEF	LHD2	2.9500e-004	2.3400e-004
tblVehicleEF	LHD2	1.0640e-003	4.7000e-004
tblVehicleEF	LHD2	0.04	0.02
tblVehicleEF	LHD2	0.02	0.01
tblVehicleEF	LHD2	7.9800e-004	4.3800e-004
tblVehicleEF	LHD2	0.15	0.10
tblVehicleEF	LHD2	0.10	0.04
tblVehicleEF	LHD2	0.17	0.05
tblVehicleEF	LHD2	4.3370e-003	2.5650e-003
tblVehicleEF	LHD2	0.01	5.2530e-003
tblVehicleEF	LHD2	0.01	3.1280e-003
tblVehicleEF	LHD2	0.13	0.12
tblVehicleEF	LHD2	0.82	0.45
tblVehicleEF	LHD2	1.49	0.81
tblVehicleEF	LHD2	14.30	13.65
tblVehicleEF	LHD2	747.65	675.38
tblVehicleEF	LHD2	26.59	21.91

tblVehicleEF	LHD2	5.6460e-003	5.2790e-003
tblVehicleEF	LHD2	0.12	0.07
tblVehicleEF	LHD2	1.53	0.24
tblVehicleEF	LHD2	0.59	0.26
tblVehicleEF	LHD2	1.3200e-003	1.0480e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.02	9.4780e-003
tblVehicleEF	LHD2	5.3600e-004	3.6400e-004
tblVehicleEF	LHD2	1.2630e-003	1.0030e-003
tblVehicleEF	LHD2	2.6630e-003	2.7070e-003
tblVehicleEF	LHD2	0.02	9.0450e-003
tblVehicleEF	LHD2	4.9400e-004	3.3500e-004
tblVehicleEF	LHD2	1.5480e-003	6.8400e-004
tblVehicleEF	LHD2	0.05	0.02
tblVehicleEF	LHD2	0.02	0.01
tblVehicleEF	LHD2	1.3770e-003	7.3000e-004
tblVehicleEF	LHD2	0.13	0.09
tblVehicleEF	LHD2	0.10	0.04
tblVehicleEF	LHD2	0.15	0.04
tblVehicleEF	LHD2	1.4000e-004	1.3300e-004
tblVehicleEF	LHD2	7.2820e-003	6.5620e-003
tblVehicleEF	LHD2	2.9400e-004	2.3300e-004
tblVehicleEF	LHD2	1.5480e-003	6.8400e-004
tblVehicleEF	LHD2	0.05	0.02
tblVehicleEF	LHD2	0.02	0.01
tblVehicleEF	LHD2	1.3770e-003	7.3000e-004
tblVehicleEF	LHD2	0.15	0.10
tblVehicleEF	LHD2	0.10	0.04
tblVehicleEF	LHD2	0.16	0.05
tblVehicleEF	LHD2	4.3370e-003	2.5650e-003

tblVehicleEF	LHD2	0.01	5.2140e-003
tblVehicleEF	LHD2	0.01	3.2540e-003
tblVehicleEF	LHD2	0.13	0.12
tblVehicleEF	LHD2	0.81	0.45
tblVehicleEF	LHD2	1.61	0.88
tblVehicleEF	LHD2	14.30	13.65
tblVehicleEF	LHD2	747.65	675.38
tblVehicleEF	LHD2	26.59	21.91
tblVehicleEF	LHD2	5.6460e-003	5.2790e-003
tblVehicleEF	LHD2	0.12	0.07
tblVehicleEF	LHD2	1.58	0.25
tblVehicleEF	LHD2	0.63	0.27
tblVehicleEF	LHD2	1.3200e-003	1.0480e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.02	9.4780e-003
tblVehicleEF	LHD2	5.3600e-004	3.6400e-004
tblVehicleEF	LHD2	1.2630e-003	1.0030e-003
tblVehicleEF	LHD2	2.6630e-003	2.7070e-003
tblVehicleEF	LHD2	0.02	9.0450e-003
tblVehicleEF	LHD2	4.9400e-004	3.3500e-004
tblVehicleEF	LHD2	9.9100e-004	4.0100e-004
tblVehicleEF	LHD2	0.05	0.02
tblVehicleEF	LHD2	0.02	0.01
tblVehicleEF	LHD2	7.0400e-004	3.8500e-004
tblVehicleEF	LHD2	0.13	0.09
tblVehicleEF	LHD2	0.11	0.04
tblVehicleEF	LHD2	0.16	0.04
tblVehicleEF	LHD2	1.4000e-004	1.3300e-004
tblVehicleEF	LHD2	7.2820e-003	6.5620e-003
tblVehicleEF	LHD2	2.9600e-004	2.3400e-004

tblVehicleEF	LHD2	9.9100e-004	4.0100e-004
tblVehicleEF	LHD2	0.05	0.02
tblVehicleEF	LHD2	0.02	0.01
tblVehicleEF	LHD2	7.0400e-004	3.8500e-004
tblVehicleEF	LHD2	0.15	0.10
tblVehicleEF	LHD2	0.11	0.04
tblVehicleEF	LHD2	0.17	0.05
tblVehicleEF	MCY	0.46	0.50
tblVehicleEF	MCY	0.16	0.15
tblVehicleEF	MCY	22.62	18.69
tblVehicleEF	MCY	9.64	9.87
tblVehicleEF	MCY	179.11	184.39
tblVehicleEF	MCY	47.50	43.18
tblVehicleEF	MCY	6.3850e-003	5.6170e-003
tblVehicleEF	MCY	1.18	1.14
tblVehicleEF	MCY	0.31	0.31
tblVehicleEF	MCY	1.8640e-003	2.3580e-003
tblVehicleEF	MCY	4.2080e-003	3.2410e-003
tblVehicleEF	MCY	1.7510e-003	2.1990e-003
tblVehicleEF	MCY	3.9870e-003	3.0330e-003
tblVehicleEF	MCY	0.92	0.90
tblVehicleEF	MCY	0.77	0.65
tblVehicleEF	MCY	0.73	0.68
tblVehicleEF	MCY	2.54	2.33
tblVehicleEF	MCY	0.64	0.44
tblVehicleEF	MCY	2.17	2.03
tblVehicleEF	MCY	2.2330e-003	2.2200e-003
tblVehicleEF	MCY	6.9700e-004	6.5200e-004
tblVehicleEF	MCY	0.92	0.90
tblVehicleEF	MCY	0.77	0.65

tblVehicleEF	MCY	0.73	0.68
tblVehicleEF	MCY	3.09	2.92
tblVehicleEF	MCY	0.64	0.44
tblVehicleEF	MCY	2.36	2.21
tblVehicleEF	MCY	0.44	0.49
tblVehicleEF	MCY	0.14	0.13
tblVehicleEF	MCY	21.43	17.88
tblVehicleEF	MCY	8.74	8.83
tblVehicleEF	MCY	179.11	184.39
tblVehicleEF	MCY	47.50	43.18
tblVehicleEF	MCY	6.3850e-003	5.6170e-003
tblVehicleEF	MCY	1.06	1.03
tblVehicleEF	MCY	0.29	0.29
tblVehicleEF	MCY	1.8640e-003	2.3580e-003
tblVehicleEF	MCY	4.2080e-003	3.2410e-003
tblVehicleEF	MCY	1.7510e-003	2.1990e-003
tblVehicleEF	MCY	3.9870e-003	3.0330e-003
tblVehicleEF	MCY	1.49	1.45
tblVehicleEF	MCY	0.85	0.75
tblVehicleEF	MCY	1.45	1.32
tblVehicleEF	MCY	2.44	2.27
tblVehicleEF	MCY	0.59	0.41
tblVehicleEF	MCY	1.88	1.78
tblVehicleEF	MCY	2.2110e-003	2.2050e-003
tblVehicleEF	MCY	6.7300e-004	6.2800e-004
tblVehicleEF	MCY	1.49	1.45
tblVehicleEF	MCY	0.85	0.75
tblVehicleEF	MCY	1.45	1.32
tblVehicleEF	MCY	2.97	2.85
tblVehicleEF	MCY	0.59	0.41

tblVehicleEF	MCY	2.04	1.94
tblVehicleEF	MCY	0.47	0.51
tblVehicleEF	MCY	0.17	0.16
tblVehicleEF	MCY	23.44	19.26
tblVehicleEF	MCY	10.11	10.39
tblVehicleEF	MCY	179.11	184.39
tblVehicleEF	MCY	47.50	43.18
tblVehicleEF	MCY	6.3850e-003	5.6170e-003
tblVehicleEF	MCY	1.19	1.16
tblVehicleEF	MCY	0.32	0.32
tblVehicleEF	MCY	1.8640e-003	2.3580e-003
tblVehicleEF	MCY	4.2080e-003	3.2410e-003
tblVehicleEF	MCY	1.7510e-003	2.1990e-003
tblVehicleEF	MCY	3.9870e-003	3.0330e-003
tblVehicleEF	MCY	0.83	0.82
tblVehicleEF	MCY	1.05	0.86
tblVehicleEF	MCY	0.57	0.54
tblVehicleEF	MCY	2.59	2.36
tblVehicleEF	MCY	0.75	0.54
tblVehicleEF	MCY	2.31	2.14
tblVehicleEF	MCY	2.2480e-003	2.2300e-003
tblVehicleEF	MCY	7.0900e-004	6.6400e-004
tblVehicleEF	MCY	0.83	0.82
tblVehicleEF	MCY	1.05	0.86
tblVehicleEF	MCY	0.57	0.54
tblVehicleEF	MCY	3.15	2.96
tblVehicleEF	MCY	0.75	0.54
tblVehicleEF	MCY	2.51	2.34
tblVehicleEF	MDV	0.01	4.6580e-003
tblVehicleEF	MDV	0.02	5.8510e-003

tblVehicleEF	MDV	1.56	0.59
tblVehicleEF	MDV	3.77	1.27
tblVehicleEF	MDV	548.12	376.19
tblVehicleEF	MDV	115.98	81.25
tblVehicleEF	MDV	0.12	0.10
tblVehicleEF	MDV	0.20	0.06
tblVehicleEF	MDV	0.36	0.09
tblVehicleEF	MDV	1.9390e-003	1.4540e-003
tblVehicleEF	MDV	2.5260e-003	2.0100e-003
tblVehicleEF	MDV	1.7910e-003	1.3390e-003
tblVehicleEF	MDV	2.3280e-003	1.8480e-003
tblVehicleEF	MDV	0.06	0.04
tblVehicleEF	MDV	0.18	0.11
tblVehicleEF	MDV	0.08	0.06
tblVehicleEF	MDV	0.05	0.01
tblVehicleEF	MDV	0.10	0.08
tblVehicleEF	MDV	0.30	0.08
tblVehicleEF	MDV	5.4940e-003	3.7610e-003
tblVehicleEF	MDV	1.2270e-003	8.3400e-004
tblVehicleEF	MDV	0.06	0.04
tblVehicleEF	MDV	0.18	0.11
tblVehicleEF	MDV	0.08	0.06
tblVehicleEF	MDV	0.06	0.02
tblVehicleEF	MDV	0.10	0.08
tblVehicleEF	MDV	0.33	0.09
tblVehicleEF	MDV	0.02	5.0110e-003
tblVehicleEF	MDV	0.02	5.1140e-003
tblVehicleEF	MDV	1.71	0.66
tblVehicleEF	MDV	3.13	1.07
tblVehicleEF	MDV	577.83	396.49

tblVehicleEF	MDV	115.98	81.25
tblVehicleEF	MDV	0.12	0.10
tblVehicleEF	MDV	0.18	0.05
tblVehicleEF	MDV	0.33	0.08
tblVehicleEF	MDV	1.9390e-003	1.4540e-003
tblVehicleEF	MDV	2.5260e-003	2.0100e-003
tblVehicleEF	MDV	1.7910e-003	1.3390e-003
tblVehicleEF	MDV	2.3280e-003	1.8480e-003
tblVehicleEF	MDV	0.09	0.07
tblVehicleEF	MDV	0.19	0.12
tblVehicleEF	MDV	0.13	0.10
tblVehicleEF	MDV	0.05	0.01
tblVehicleEF	MDV	0.09	0.07
tblVehicleEF	MDV	0.26	0.07
tblVehicleEF	MDV	5.7930e-003	3.9640e-003
tblVehicleEF	MDV	1.2160e-003	8.3000e-004
tblVehicleEF	MDV	0.09	0.07
tblVehicleEF	MDV	0.19	0.12
tblVehicleEF	MDV	0.13	0.10
tblVehicleEF	MDV	0.07	0.02
tblVehicleEF	MDV	0.09	0.07
tblVehicleEF	MDV	0.29	0.08
tblVehicleEF	MDV	0.01	4.5800e-003
tblVehicleEF	MDV	0.02	6.1530e-003
tblVehicleEF	MDV	1.55	0.57
tblVehicleEF	MDV	4.04	1.36
tblVehicleEF	MDV	542.75	372.51
tblVehicleEF	MDV	115.98	81.25
tblVehicleEF	MDV	0.12	0.10
tblVehicleEF	MDV	0.20	0.06

tblVehicleEF	MDV	0.38	0.10
tblVehicleEF	MDV	1.9390e-003	1.4540e-003
tblVehicleEF	MDV	2.5260e-003	2.0100e-003
tblVehicleEF	MDV	1.7910e-003	1.3390e-003
tblVehicleEF	MDV	2.3280e-003	1.8480e-003
tblVehicleEF	MDV	0.05	0.03
tblVehicleEF	MDV	0.20	0.12
tblVehicleEF	MDV	0.07	0.05
tblVehicleEF	MDV	0.05	0.01
tblVehicleEF	MDV	0.12	0.09
tblVehicleEF	MDV	0.32	0.08
tblVehicleEF	MDV	5.4400e-003	3.7240e-003
tblVehicleEF	MDV	1.2320e-003	8.3500e-004
tblVehicleEF	MDV	0.05	0.03
tblVehicleEF	MDV	0.20	0.12
tblVehicleEF	MDV	0.07	0.05
tblVehicleEF	MDV	0.06	0.02
tblVehicleEF	MDV	0.12	0.09
tblVehicleEF	MDV	0.35	0.09
tblVehicleEF	MH	0.07	0.01
tblVehicleEF	MH	0.04	0.02
tblVehicleEF	MH	6.00	0.61
tblVehicleEF	MH	8.93	3.92
tblVehicleEF	MH	1,253.64	1,198.32
tblVehicleEF	MH	67.72	57.67
tblVehicleEF	MH	1.4520e-003	7.8200e-004
tblVehicleEF	MH	1.97	0.99
tblVehicleEF	MH	1.08	0.69
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	0.04	0.02

tblVehicleEF	MH	2.3060e-003	8.5700e-004
tblVehicleEF	MH	3.2000e-003	3.2190e-003
tblVehicleEF	MH	0.03	0.02
tblVehicleEF	MH	2.1490e-003	7.8800e-004
tblVehicleEF	MH	1.33	0.59
tblVehicleEF	MH	0.11	0.05
tblVehicleEF	MH	0.67	0.34
tblVehicleEF	MH	0.24	0.05
tblVehicleEF	MH	0.03	0.02
tblVehicleEF	MH	0.58	0.24
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	8.3500e-004	6.4500e-004
tblVehicleEF	MH	1.33	0.59
tblVehicleEF	MH	0.11	0.05
tblVehicleEF	MH	0.67	0.34
tblVehicleEF	MH	0.32	0.06
tblVehicleEF	MH	0.03	0.02
tblVehicleEF	MH	0.63	0.26
tblVehicleEF	MH	0.07	0.01
tblVehicleEF	MH	0.04	0.02
tblVehicleEF	MH	6.06	0.62
tblVehicleEF	MH	8.39	3.67
tblVehicleEF	MH	1,253.64	1,198.32
tblVehicleEF	MH	67.72	57.67
tblVehicleEF	MH	1.4520e-003	7.8200e-004
tblVehicleEF	MH	1.85	0.94
tblVehicleEF	MH	1.03	0.65
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	0.04	0.02
tblVehicleEF	MH	2.3060e-003	8.5700e-004

tblVehicleEF	MH	3.2000e-003	3.2190e-003
tblVehicleEF	MH	0.03	0.02
tblVehicleEF	MH	2.1490e-003	7.8800e-004
tblVehicleEF	MH	1.85	0.81
tblVehicleEF	MH	0.11	0.05
tblVehicleEF	MH	1.20	0.59
tblVehicleEF	MH	0.24	0.05
tblVehicleEF	MH	0.03	0.02
tblVehicleEF	MH	0.55	0.23
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	8.2600e-004	6.4100e-004
tblVehicleEF	MH	1.85	0.81
tblVehicleEF	MH	0.11	0.05
tblVehicleEF	MH	1.20	0.59
tblVehicleEF	MH	0.32	0.06
tblVehicleEF	MH	0.03	0.02
tblVehicleEF	MH	0.60	0.25
tblVehicleEF	MH	0.06	0.01
tblVehicleEF	MH	0.04	0.02
tblVehicleEF	MH	6.01	0.60
tblVehicleEF	MH	9.21	4.04
tblVehicleEF	MH	1,253.64	1,198.32
tblVehicleEF	MH	67.72	57.67
tblVehicleEF	MH	1.4520e-003	7.8200e-004
tblVehicleEF	MH	1.97	0.98
tblVehicleEF	MH	1.11	0.70
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	0.04	0.02
tblVehicleEF	MH	2.3060e-003	8.5700e-004
tblVehicleEF	MH	3.2000e-003	3.2190e-003

tblVehicleEF	MH	0.03	0.02
tblVehicleEF	MH	2.1490e-003	7.8800e-004
tblVehicleEF	MH	1.40	0.58
tblVehicleEF	MH	0.15	0.06
tblVehicleEF	MH	0.63	0.31
tblVehicleEF	MH	0.24	0.05
tblVehicleEF	MH	0.03	0.02
tblVehicleEF	MH	0.59	0.24
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	8.4000e-004	6.4700e-004
tblVehicleEF	MH	1.40	0.58
tblVehicleEF	MH	0.15	0.06
tblVehicleEF	MH	0.63	0.31
tblVehicleEF	MH	0.32	0.06
tblVehicleEF	MH	0.03	0.02
tblVehicleEF	MH	0.65	0.27
tblVehicleEF	MHD	0.02	0.02
tblVehicleEF	MHD	0.02	2.6740e-003
tblVehicleEF	MHD	0.08	0.03
tblVehicleEF	MHD	0.51	0.32
tblVehicleEF	MHD	1.05	0.25
tblVehicleEF	MHD	9.02	3.30
tblVehicleEF	MHD	150.55	144.71
tblVehicleEF	MHD	1,222.82	1,170.27
tblVehicleEF	MHD	60.46	53.52
tblVehicleEF	MHD	0.01	0.02
tblVehicleEF	MHD	1.30	0.39
tblVehicleEF	MHD	3.46	1.07
tblVehicleEF	MHD	11.25	11.07
tblVehicleEF	MHD	5.7670e-003	6.5000e-005

tblVehicleEF	MHD	0.09	3.0310e-003
tblVehicleEF	MHD	1.3110e-003	7.4000e-004
tblVehicleEF	MHD	5.5170e-003	6.2000e-005
tblVehicleEF	MHD	0.09	2.8950e-003
tblVehicleEF	MHD	1.2120e-003	6.8100e-004
tblVehicleEF	MHD	1.3630e-003	5.2800e-004
tblVehicleEF	MHD	0.06	0.03
tblVehicleEF	MHD	0.04	0.02
tblVehicleEF	MHD	9.7000e-004	4.8100e-004
tblVehicleEF	MHD	0.23	0.04
tblVehicleEF	MHD	0.03	0.01
tblVehicleEF	MHD	0.55	0.21
tblVehicleEF	MHD	1.4480e-003	1.3910e-003
tblVehicleEF	MHD	0.01	0.01
tblVehicleEF	MHD	7.6300e-004	5.9300e-004
tblVehicleEF	MHD	1.3630e-003	5.2800e-004
tblVehicleEF	MHD	0.06	0.03
tblVehicleEF	MHD	0.05	0.03
tblVehicleEF	MHD	9.7000e-004	4.8100e-004
tblVehicleEF	MHD	0.27	0.05
tblVehicleEF	MHD	0.03	0.01
tblVehicleEF	MHD	0.60	0.23
tblVehicleEF	MHD	0.02	0.01
tblVehicleEF	MHD	0.02	2.6950e-003
tblVehicleEF	MHD	0.07	0.03
tblVehicleEF	MHD	0.37	0.23
tblVehicleEF	MHD	1.06	0.25
tblVehicleEF	MHD	8.49	3.10
tblVehicleEF	MHD	159.46	153.27
tblVehicleEF	MHD	1,222.82	1,170.27

tblVehicleEF	MHD	60.46	53.52
tblVehicleEF	MHD	0.01	0.02
tblVehicleEF	MHD	1.35	0.40
tblVehicleEF	MHD	3.33	1.03
tblVehicleEF	MHD	11.18	11.04
tblVehicleEF	MHD	4.8610e-003	5.4000e-005
tblVehicleEF	MHD	0.09	3.0310e-003
tblVehicleEF	MHD	1.3110e-003	7.4000e-004
tblVehicleEF	MHD	4.6510e-003	5.2000e-005
tblVehicleEF	MHD	0.09	2.8950e-003
tblVehicleEF	MHD	1.2120e-003	6.8100e-004
tblVehicleEF	MHD	2.0330e-003	7.7200e-004
tblVehicleEF	MHD	0.06	0.03
tblVehicleEF	MHD	0.04	0.02
tblVehicleEF	MHD	1.7680e-003	8.1000e-004
tblVehicleEF	MHD	0.23	0.04
tblVehicleEF	MHD	0.03	0.01
tblVehicleEF	MHD	0.52	0.20
tblVehicleEF	MHD	1.5320e-003	1.4720e-003
tblVehicleEF	MHD	0.01	0.01
tblVehicleEF	MHD	7.5400e-004	5.8900e-004
tblVehicleEF	MHD	2.0330e-003	7.7200e-004
tblVehicleEF	MHD	0.06	0.03
tblVehicleEF	MHD	0.05	0.03
tblVehicleEF	MHD	1.7680e-003	8.1000e-004
tblVehicleEF	MHD	0.27	0.05
tblVehicleEF	MHD	0.03	0.01
tblVehicleEF	MHD	0.57	0.22
tblVehicleEF	MHD	0.02	0.02
tblVehicleEF	MHD	0.02	2.6650e-003

tblVehicleEF	MHD	0.08	0.03
tblVehicleEF	MHD	0.70	0.44
tblVehicleEF	MHD	1.04	0.25
tblVehicleEF	MHD	9.27	3.38
tblVehicleEF	MHD	138.23	132.86
tblVehicleEF	MHD	1,222.82	1,170.27
tblVehicleEF	MHD	60.46	53.52
tblVehicleEF	MHD	0.01	0.02
tblVehicleEF	MHD	1.25	0.37
tblVehicleEF	MHD	3.44	1.07
tblVehicleEF	MHD	11.28	11.08
tblVehicleEF	MHD	7.0170e-003	7.9000e-005
tblVehicleEF	MHD	0.09	3.0310e-003
tblVehicleEF	MHD	1.3110e-003	7.4000e-004
tblVehicleEF	MHD	6.7130e-003	7.5000e-005
tblVehicleEF	MHD	0.09	2.8950e-003
tblVehicleEF	MHD	1.2120e-003	6.8100e-004
tblVehicleEF	MHD	1.3010e-003	4.5600e-004
tblVehicleEF	MHD	0.07	0.03
tblVehicleEF	MHD	0.04	0.02
tblVehicleEF	MHD	8.5400e-004	4.2200e-004
tblVehicleEF	MHD	0.23	0.04
tblVehicleEF	MHD	0.03	0.01
tblVehicleEF	MHD	0.56	0.21
tblVehicleEF	MHD	1.3320e-003	1.2800e-003
tblVehicleEF	MHD	0.01	0.01
tblVehicleEF	MHD	7.6700e-004	5.9400e-004
tblVehicleEF	MHD	1.3010e-003	4.5600e-004
tblVehicleEF	MHD	0.07	0.03
tblVehicleEF	MHD	0.06	0.03

tblVehicleEF	MHD	8.5400e-004	4.2200e-004
tblVehicleEF	MHD	0.27	0.05
tblVehicleEF	MHD	0.03	0.01
tblVehicleEF	MHD	0.61	0.23
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	0.02	5.0940e-003
tblVehicleEF	OBUS	0.04	0.02
tblVehicleEF	OBUS	0.30	0.25
tblVehicleEF	OBUS	1.25	0.35
tblVehicleEF	OBUS	7.81	4.36
tblVehicleEF	OBUS	105.94	108.02
tblVehicleEF	OBUS	1,361.93	1,302.23
tblVehicleEF	OBUS	71.14	67.38
tblVehicleEF	OBUS	1.8710e-003	1.9310e-003
tblVehicleEF	OBUS	0.71	0.23
tblVehicleEF	OBUS	2.56	0.78
tblVehicleEF	OBUS	2.67	2.08
tblVehicleEF	OBUS	4.2200e-004	2.2000e-005
tblVehicleEF	OBUS	0.01	2.7290e-003
tblVehicleEF	OBUS	9.5200e-004	1.0030e-003
tblVehicleEF	OBUS	4.0400e-004	2.1000e-005
tblVehicleEF	OBUS	0.01	2.5830e-003
tblVehicleEF	OBUS	8.7900e-004	9.2300e-004
tblVehicleEF	OBUS	1.5720e-003	1.1900e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.04	0.03
tblVehicleEF	OBUS	9.4800e-004	8.3000e-004
tblVehicleEF	OBUS	0.11	0.04
tblVehicleEF	OBUS	0.05	0.05
tblVehicleEF	OBUS	0.49	0.28

tblVehicleEF	OBUS	1.0230e-003	1.0420e-003
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	8.4900e-004	7.5000e-004
tblVehicleEF	OBUS	1.5720e-003	1.1900e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.06	0.05
tblVehicleEF	OBUS	9.4800e-004	8.3000e-004
tblVehicleEF	OBUS	0.14	0.05
tblVehicleEF	OBUS	0.05	0.05
tblVehicleEF	OBUS	0.54	0.30
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	0.02	5.1880e-003
tblVehicleEF	OBUS	0.04	0.02
tblVehicleEF	OBUS	0.28	0.24
tblVehicleEF	OBUS	1.27	0.35
tblVehicleEF	OBUS	7.32	4.08
tblVehicleEF	OBUS	111.21	113.45
tblVehicleEF	OBUS	1,361.93	1,302.23
tblVehicleEF	OBUS	71.14	67.38
tblVehicleEF	OBUS	1.8710e-003	1.9310e-003
tblVehicleEF	OBUS	0.73	0.24
tblVehicleEF	OBUS	2.45	0.75
tblVehicleEF	OBUS	2.60	2.05
tblVehicleEF	OBUS	3.5600e-004	1.8000e-005
tblVehicleEF	OBUS	0.01	2.7290e-003
tblVehicleEF	OBUS	9.5200e-004	1.0030e-003
tblVehicleEF	OBUS	3.4100e-004	1.8000e-005
tblVehicleEF	OBUS	0.01	2.5830e-003
tblVehicleEF	OBUS	8.7900e-004	9.2300e-004
tblVehicleEF	OBUS	2.2330e-003	1.6860e-003

tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.04	0.03
tblVehicleEF	OBUS	1.7520e-003	1.4630e-003
tblVehicleEF	OBUS	0.11	0.04
tblVehicleEF	OBUS	0.05	0.04
tblVehicleEF	OBUS	0.47	0.26
tblVehicleEF	OBUS	1.0730e-003	1.0940e-003
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	8.4000e-004	7.4500e-004
tblVehicleEF	OBUS	2.2330e-003	1.6860e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.06	0.05
tblVehicleEF	OBUS	1.7520e-003	1.4630e-003
tblVehicleEF	OBUS	0.14	0.05
tblVehicleEF	OBUS	0.05	0.04
tblVehicleEF	OBUS	0.51	0.29
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	0.02	5.0520e-003
tblVehicleEF	OBUS	0.04	0.02
tblVehicleEF	OBUS	0.32	0.26
tblVehicleEF	OBUS	1.24	0.35
tblVehicleEF	OBUS	8.04	4.49
tblVehicleEF	OBUS	98.66	100.51
tblVehicleEF	OBUS	1,361.93	1,302.23
tblVehicleEF	OBUS	71.14	67.38
tblVehicleEF	OBUS	1.8710e-003	1.9310e-003
tblVehicleEF	OBUS	0.68	0.22
tblVehicleEF	OBUS	2.55	0.78
tblVehicleEF	OBUS	2.70	2.10
tblVehicleEF	OBUS	5.1400e-004	2.7000e-005

tblVehicleEF	OBUS	0.01	2.7290e-003
tblVehicleEF	OBUS	9.5200e-004	1.0030e-003
tblVehicleEF	OBUS	4.9200e-004	2.5000e-005
tblVehicleEF	OBUS	0.01	2.5830e-003
tblVehicleEF	OBUS	8.7900e-004	9.2300e-004
tblVehicleEF	OBUS	1.5600e-003	1.0970e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.04	0.03
tblVehicleEF	OBUS	8.6400e-004	7.4200e-004
tblVehicleEF	OBUS	0.11	0.04
tblVehicleEF	OBUS	0.05	0.05
tblVehicleEF	OBUS	0.50	0.28
tblVehicleEF	OBUS	9.5400e-004	9.7100e-004
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	8.5300e-004	7.5200e-004
tblVehicleEF	OBUS	1.5600e-003	1.0970e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.06	0.05
tblVehicleEF	OBUS	8.6400e-004	7.4200e-004
tblVehicleEF	OBUS	0.14	0.05
tblVehicleEF	OBUS	0.05	0.05
tblVehicleEF	OBUS	0.55	0.31
tblVehicleEF	SBUS	0.89	0.82
tblVehicleEF	SBUS	0.02	7.0480e-003
tblVehicleEF	SBUS	0.11	0.05
tblVehicleEF	SBUS	5.85	7.42
tblVehicleEF	SBUS	1.45	0.46
tblVehicleEF	SBUS	8.34	5.72
tblVehicleEF	SBUS	1,274.71	1,099.15
tblVehicleEF	SBUS	1,148.50	1,053.04

tblVehicleEF	SBUS	36.45	50.65
tblVehicleEF	SBUS	7.3900e-004	7.8500e-004
tblVehicleEF	SBUS	13.83	5.06
tblVehicleEF	SBUS	6.13	1.88
tblVehicleEF	SBUS	15.44	12.52
tblVehicleEF	SBUS	0.02	2.5410e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.04	9.2940e-003
tblVehicleEF	SBUS	8.0300e-004	9.8600e-004
tblVehicleEF	SBUS	0.02	2.4310e-003
tblVehicleEF	SBUS	2.7560e-003	2.6620e-003
tblVehicleEF	SBUS	0.03	8.8740e-003
tblVehicleEF	SBUS	7.3800e-004	9.0600e-004
tblVehicleEF	SBUS	3.4660e-003	2.4990e-003
tblVehicleEF	SBUS	0.04	0.03
tblVehicleEF	SBUS	0.71	0.88
tblVehicleEF	SBUS	1.8160e-003	1.8440e-003
tblVehicleEF	SBUS	0.16	0.07
tblVehicleEF	SBUS	0.02	0.01
tblVehicleEF	SBUS	0.43	0.30
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	5.0900e-004	6.0500e-004
tblVehicleEF	SBUS	3.4660e-003	2.4990e-003
tblVehicleEF	SBUS	0.04	0.03
tblVehicleEF	SBUS	1.01	1.28
tblVehicleEF	SBUS	1.8160e-003	1.8440e-003
tblVehicleEF	SBUS	0.19	0.08
tblVehicleEF	SBUS	0.02	0.01
tblVehicleEF	SBUS	0.47	0.33

tblVehicleEF	SBUS	0.89	0.82
tblVehicleEF	SBUS	0.03	7.1730e-003
tblVehicleEF	SBUS	0.10	0.05
tblVehicleEF	SBUS	5.67	7.35
tblVehicleEF	SBUS	1.48	0.47
tblVehicleEF	SBUS	6.52	4.47
tblVehicleEF	SBUS	1,339.77	1,149.62
tblVehicleEF	SBUS	1,148.50	1,053.04
tblVehicleEF	SBUS	36.45	50.65
tblVehicleEF	SBUS	7.3900e-004	7.8500e-004
tblVehicleEF	SBUS	14.27	5.22
tblVehicleEF	SBUS	5.90	1.81
tblVehicleEF	SBUS	15.40	12.49
tblVehicleEF	SBUS	0.02	2.1420e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.04	9.2940e-003
tblVehicleEF	SBUS	8.0300e-004	9.8600e-004
tblVehicleEF	SBUS	0.01	2.0490e-003
tblVehicleEF	SBUS	2.7560e-003	2.6620e-003
tblVehicleEF	SBUS	0.03	8.8740e-003
tblVehicleEF	SBUS	7.3800e-004	9.0600e-004
tblVehicleEF	SBUS	4.8420e-003	3.5400e-003
tblVehicleEF	SBUS	0.04	0.03
tblVehicleEF	SBUS	0.71	0.88
tblVehicleEF	SBUS	3.3040e-003	3.2210e-003
tblVehicleEF	SBUS	0.16	0.07
tblVehicleEF	SBUS	0.02	0.01
tblVehicleEF	SBUS	0.38	0.27
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.01	0.01

tblVehicleEF	SBUS	4.7900e-004	5.8400e-004
tblVehicleEF	SBUS	4.8420e-003	3.5400e-003
tblVehicleEF	SBUS	0.04	0.03
tblVehicleEF	SBUS	1.01	1.27
tblVehicleEF	SBUS	3.3040e-003	3.2210e-003
tblVehicleEF	SBUS	0.19	0.08
tblVehicleEF	SBUS	0.02	0.01
tblVehicleEF	SBUS	0.41	0.29
tblVehicleEF	SBUS	0.89	0.82
tblVehicleEF	SBUS	0.02	6.9890e-003
tblVehicleEF	SBUS	0.12	0.06
tblVehicleEF	SBUS	6.09	7.52
tblVehicleEF	SBUS	1.43	0.46
tblVehicleEF	SBUS	9.24	6.34
tblVehicleEF	SBUS	1,184.88	1,029.47
tblVehicleEF	SBUS	1,148.50	1,053.04
tblVehicleEF	SBUS	36.45	50.65
tblVehicleEF	SBUS	7.3900e-004	7.8500e-004
tblVehicleEF	SBUS	13.22	4.84
tblVehicleEF	SBUS	6.11	1.87
tblVehicleEF	SBUS	15.46	12.53
tblVehicleEF	SBUS	0.02	3.0920e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.04	9.2940e-003
tblVehicleEF	SBUS	8.0300e-004	9.8600e-004
tblVehicleEF	SBUS	0.02	2.9580e-003
tblVehicleEF	SBUS	2.7560e-003	2.6620e-003
tblVehicleEF	SBUS	0.03	8.8740e-003
tblVehicleEF	SBUS	7.3800e-004	9.0600e-004
tblVehicleEF	SBUS	3.5910e-003	2.2380e-003

tblVehicleEF	SBUS	0.04	0.03
tblVehicleEF	SBUS	0.72	0.88
tblVehicleEF	SBUS	1.6760e-003	1.6430e-003
tblVehicleEF	SBUS	0.15	0.07
tblVehicleEF	SBUS	0.03	0.02
tblVehicleEF	SBUS	0.46	0.32
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	5.2400e-004	6.1600e-004
tblVehicleEF	SBUS	3.5910e-003	2.2380e-003
tblVehicleEF	SBUS	0.04	0.03
tblVehicleEF	SBUS	1.02	1.28
tblVehicleEF	SBUS	1.6760e-003	1.6430e-003
tblVehicleEF	SBUS	0.19	0.08
tblVehicleEF	SBUS	0.03	0.02
tblVehicleEF	SBUS	0.51	0.36
tblVehicleEF	UBUS	2.20	1.20
tblVehicleEF	UBUS	0.04	0.05
tblVehicleEF	UBUS	9.53	5.40
tblVehicleEF	UBUS	6.69	7.56
tblVehicleEF	UBUS	2,033.84	1,788.82
tblVehicleEF	UBUS	97.00	134.15
tblVehicleEF	UBUS	2.1730e-003	1.6770e-003
tblVehicleEF	UBUS	10.95	2.90
tblVehicleEF	UBUS	15.32	12.64
tblVehicleEF	UBUS	0.62	0.52
tblVehicleEF	UBUS	0.17	0.04
tblVehicleEF	UBUS	6.9000e-004	1.3850e-003
tblVehicleEF	UBUS	0.27	0.22
tblVehicleEF	UBUS	0.16	0.04

tblVehicleEF	UBUS	6.3600e-004	1.2740e-003
tblVehicleEF	UBUS	1.9320e-003	2.5410e-003
tblVehicleEF	UBUS	0.04	0.05
tblVehicleEF	UBUS	1.7610e-003	2.7110e-003
tblVehicleEF	UBUS	0.80	0.22
tblVehicleEF	UBUS	7.3340e-003	0.01
tblVehicleEF	UBUS	0.57	0.70
tblVehicleEF	UBUS	0.01	9.0140e-003
tblVehicleEF	UBUS	1.0920e-003	1.4810e-003
tblVehicleEF	UBUS	1.9320e-003	2.5410e-003
tblVehicleEF	UBUS	0.04	0.05
tblVehicleEF	UBUS	1.7610e-003	2.7110e-003
tblVehicleEF	UBUS	3.10	1.45
tblVehicleEF	UBUS	7.3340e-003	0.01
tblVehicleEF	UBUS	0.62	0.76
tblVehicleEF	UBUS	2.20	1.20
tblVehicleEF	UBUS	0.04	0.05
tblVehicleEF	UBUS	9.54	5.41
tblVehicleEF	UBUS	5.71	6.48
tblVehicleEF	UBUS	2,033.84	1,788.82
tblVehicleEF	UBUS	97.00	134.15
tblVehicleEF	UBUS	2.1730e-003	1.6770e-003
tblVehicleEF	UBUS	10.56	2.79
tblVehicleEF	UBUS	15.27	12.58
tblVehicleEF	UBUS	0.62	0.52
tblVehicleEF	UBUS	0.17	0.04
tblVehicleEF	UBUS	6.9000e-004	1.3850e-003
tblVehicleEF	UBUS	0.27	0.22
tblVehicleEF	UBUS	0.16	0.04
tblVehicleEF	UBUS	6.3600e-004	1.2740e-003

tblVehicleEF	UBUS	2.3820e-003	3.1280e-003
tblVehicleEF	UBUS	0.04	0.05
tblVehicleEF	UBUS	3.2070e-003	4.7920e-003
tblVehicleEF	UBUS	0.81	0.22
tblVehicleEF	UBUS	6.6000e-003	0.01
tblVehicleEF	UBUS	0.52	0.64
tblVehicleEF	UBUS	0.01	9.0140e-003
tblVehicleEF	UBUS	1.0750e-003	1.4620e-003
tblVehicleEF	UBUS	2.3820e-003	3.1280e-003
tblVehicleEF	UBUS	0.04	0.05
tblVehicleEF	UBUS	3.2070e-003	4.7920e-003
tblVehicleEF	UBUS	3.10	1.45
tblVehicleEF	UBUS	6.6000e-003	0.01
tblVehicleEF	UBUS	0.57	0.70
tblVehicleEF	UBUS	2.20	1.20
tblVehicleEF	UBUS	0.04	0.05
tblVehicleEF	UBUS	9.52	5.40
tblVehicleEF	UBUS	7.13	8.05
tblVehicleEF	UBUS	2,033.84	1,788.82
tblVehicleEF	UBUS	97.00	134.15
tblVehicleEF	UBUS	2.1730e-003	1.6770e-003
tblVehicleEF	UBUS	10.89	2.88
tblVehicleEF	UBUS	15.34	12.67
tblVehicleEF	UBUS	0.62	0.52
tblVehicleEF	UBUS	0.17	0.04
tblVehicleEF	UBUS	6.9000e-004	1.3850e-003
tblVehicleEF	UBUS	0.27	0.22
tblVehicleEF	UBUS	0.16	0.04
tblVehicleEF	UBUS	6.3600e-004	1.2740e-003
tblVehicleEF	UBUS	1.8430e-003	2.2650e-003

tblVehicleEF	UBUS	0.05	0.05
tblVehicleEF	UBUS	1.6130e-003	2.4240e-003
tblVehicleEF	UBUS	0.80	0.22
tblVehicleEF	UBUS	9.1130e-003	0.02
tblVehicleEF	UBUS	0.59	0.73
tblVehicleEF	UBUS	0.01	9.0140e-003
tblVehicleEF	UBUS	1.1000e-003	1.4890e-003
tblVehicleEF	UBUS	1.8430e-003	2.2650e-003
tblVehicleEF	UBUS	0.05	0.05
tblVehicleEF	UBUS	1.6130e-003	2.4240e-003
tblVehicleEF	UBUS	3.10	1.45
tblVehicleEF	UBUS	9.1130e-003	0.02
tblVehicleEF	UBUS	0.65	0.80
tblVehicleTrips	ST_TR	22.75	5.00
tblVehicleTrips	ST_TR	5.67	5.70
tblVehicleTrips	ST_TR	42.04	36.00
tblVehicleTrips	SU_TR	16.74	5.00
tblVehicleTrips	SU_TR	4.84	5.70
tblVehicleTrips	SU_TR	20.43	36.00
tblVehicleTrips	WD_TR	1.89	5.00
tblVehicleTrips	WD_TR	5.81	5.70
tblVehicleTrips	WD_TR	6.97	14.25
tblVehicleTrips	WD_TR	11.42	15.20
tblVehicleTrips	WD_TR	44.32	36.00
tblWoodstoves	NumberCatalytic	165.50	0.00
tblWoodstoves	NumberNoncatalytic	165.50	0.00

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2028	0.0000	0.0000	0.0000	0.0000	0.0000	4.2555	0.0000	0.0000	3.9389	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Maximum	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**4.2555**	**0.0000**	**0.0000**	**3.9389**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2028	0.0000	0.0000	0.0000	0.0000	0.0000	4.2555	0.0000	0.0000	3.9389	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Maximum	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**4.2555**	**0.0000**	**0.0000**	**3.9389**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

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

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	106.0436	58.0996	298.4351	0.3649		5.9405	5.9405		5.9405	5.9405	0.0000	70,585.9527	70,585.9527	1.8311	1.2851	71,014.6781
Energy	1.9451	16.7705	8.1658	0.1061		1.3439	1.3439		1.3439	1.3439		21,218.8697	21,218.8697	0.4067	0.3890	21,344.9628
Mobile	59.1374	236.8643	694.5565	2.8770	186.1778	1.7914	187.9692	52.5420	1.6643	54.2062		294,644.1754	294,644.1754	13.7172		294,987.1044
Total	**167.1261**	**311.7344**	**1,001.1574**	**3.3479**	**186.1778**	**9.0757**	**195.2535**	**52.5420**	**8.9486**	**61.4906**	**0.0000**	**386,448.9977**	**386,448.9977**	**15.9550**	**1.6741**	**387,346.7452**

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	106.0436	58.0996	298.4351	0.3649		5.9405	5.9405		5.9405	5.9405	0.0000	70,585.9527	70,585.9527	1.8311	1.2851	71,014.6781
Energy	1.8031	15.5485	7.5867	0.0984		1.2458	1.2458		1.2458	1.2458		19,669.8275	19,669.8275	0.3770	0.3606	19,786.7154
Mobile	56.3323	225.2669	632.1858	2.5830	165.8845	1.6205	167.5050	46.8149	1.5054	48.3203		264,613.8457	264,613.8457	12.4563		264,925.2543
Total	**164.1790**	**298.9150**	**938.2076**	**3.0462**	**165.8845**	**8.8068**	**174.6912**	**46.8149**	**8.6916**	**55.5065**	**0.0000**	**354,869.6259**	**354,869.6259**	**14.6645**	**1.6457**	**355,726.6478**

	ROG	NOx	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	**1.76**	**4.11**	**6.29**	**9.01**	**10.90**	**2.96**	**10.53**	**10.90**	**2.87**	**9.73**	**0.00**	**8.17**	**8.17**	**8.09**	**1.70**	**8.16**

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description

1	Architectural Coating	Architectural Coating	4/6/2028	4/5/2028	5	330	
2	Building Construction	Building Construction	4/6/2028	4/5/2028	5	4650	
3	Demolition	Demolition	4/6/2028	4/5/2028	5	300	
4	Grading	Grading	4/6/2028	4/5/2028	5	465	
5	Paving	Paving	4/6/2028	4/5/2028	5	330	
6	Site Preparation	Site Preparation	4/6/2028	4/5/2028	5	180	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 1162.5

Acres of Paving: 0

Residential Indoor: 6,702,750; Residential Outdoor: 2,234,250; Non-Residential Indoor: 861,000; Non-Residential Outdoor: 287,000;

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	1	6.00	78	0.48
Demolition	Excavators	3	8.00	158	0.38
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Grading	Excavators	2	8.00	158	0.38
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Paving	Pavers	2	8.00	130	0.42
Paving	Rollers	2	8.00	80	0.38
Demolition	Rubber Tired Dozers	2	8.00	247	0.40
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Grading	Graders	1	8.00	187	0.41
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Paving	Paving Equipment	2	8.00	132	0.36
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37

Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Grading	Scrapers	2	8.00	367	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
Architectural Coating	1	544.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	2,718.00	491.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Demolition	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Architectural Coating - 2028

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated Construction Off-Site

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

Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

3.3 Building Construction - 2028

Unmitigated Construction On-Site

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

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated Construction On-Site

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

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

3.4 Demolition - 2028

Unmitigated Construction On-Site

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

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated Construction On-Site

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

Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

3.5 Grading - 2028

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated Construction Off-Site

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

Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

3.6 Paving - 2028

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Paving	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Paving	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

3.7 Site Preparation - 2028

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated Construction On-Site

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

Off-Road	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Increase Density

Increase Diversity

Increase Transit Accessibility

Improve Pedestrian Network

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	56.3323	225.2669	632.1858	2.5830	165.8845	1.6205	167.5050	46.8149	1.5054	48.3203		264,613.8457	264,613.8457	12.4563	264,925.2543
Unmitigated	59.1374	236.8643	694.5565	2.8770	186.1778	1.7914	187.9692	52.5420	1.6643	54.2062		294,644.1754	294,644.1754	13.7172	294,987.1044

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
City Park	29.90	29.90	29.90	63,832	56,874
Condo/Townhouse	3,334.50	3,334.50	3334.50	9,521,009	8,483,219
Condo/Townhouse	15,532.50	15,532.50	15532.50	44,349,999	39,515,850
General Light Industry	2,351.25	217.80	112.20	5,040,849	4,491,396
General Light Industry	3,562.50	330.00	170.00	7,637,650	6,805,146
Office Park	2,052.00	221.40	102.60	3,789,446	3,376,396
Strip Mall	864.00	864.00	864.00	1,330,589	1,185,554
Total	27,726.65	20,530.10	20,145.70	71,733,374	63,914,436

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
Condo/Townhouse	10.80	7.30	7.50	41.60	18.80	39.60	86	11	3
General Light Industry	9.50	7.30	7.30	59.00	28.00	13.00	92	5	3
General Light Industry	9.50	7.30	7.30	59.00	28.00	13.00	92	5	3
Office Park	9.50	7.30	7.30	33.00	48.00	19.00	82	15	3
Strip Mall	9.50	7.30	7.30	16.60	64.40	19.00	45	40	15

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Office Park	0.616428	0.037185	0.177402	0.097684	0.012090	0.005279	0.017663	0.025476	0.001931	0.001677	0.005617	0.000785	0.000782
General Light Industry	0.616428	0.037185	0.177402	0.097684	0.012090	0.005279	0.017663	0.025476	0.001931	0.001677	0.005617	0.000785	0.000782
General Light Industry	0.616428	0.037185	0.177402	0.097684	0.012090	0.005279	0.017663	0.025476	0.001931	0.001677	0.005617	0.000785	0.000782

City Park	0.616428	0.037185	0.177402	0.097684	0.012090	0.005279	0.017663	0.025476	0.001931	0.001677	0.005617	0.000785	0.000782
Condo/Townhouse	0.616428	0.037185	0.177402	0.097684	0.012090	0.005279	0.017663	0.025476	0.001931	0.001677	0.005617	0.000785	0.000782
Condo/Townhouse	0.616428	0.037185	0.177402	0.097684	0.012090	0.005279	0.017663	0.025476	0.001931	0.001677	0.005617	0.000785	0.000782
Strip Mall	0.616428	0.037185	0.177402	0.097684	0.012090	0.005279	0.017663	0.025476	0.001931	0.001677	0.005617	0.000785	0.000782

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Exceed Title 24

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	1.8031	15.5485	7.5867	0.0984		1.2458	1.2458		1.2458	1.2458		19,669.8275	19,669.8275	0.3770	0.3606	19,786.7154
NaturalGas Unmitigated	1.9451	16.7705	8.1658	0.1061		1.3439	1.3439		1.3439	1.3439		21,218.8697	21,218.8697	0.4067	0.3890	21,344.9628

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					
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	127627	1.3764	11.7617	5.0050	0.0751		0.9510	0.9510		0.9510	0.9510		15,014.9564	15,014.9564	0.2878	0.2753	15,104.1828
Condo/Townhouse	27398.9	0.2955	2.5250	1.0745	0.0161		0.2042	0.2042		0.2042	0.2042		3,223.3943	3,223.3943	0.0618	0.0591	3,242.5493
General Light Industry	5239.32	0.0565	0.5137	0.4315	3.0800e-003		0.0390	0.0390		0.0390	0.0390		616.3900	616.3900	0.0118	0.0113	620.0529
General Light Industry	7938.36	0.0856	0.7783	0.6538	4.6700e-003		0.0592	0.0592		0.0592	0.0592		933.9243	933.9243	0.0179	0.0171	939.4741
Office Park	12009.5	0.1295	1.1774	0.9890	7.0600e-003		0.0895	0.0895		0.0895	0.0895		1,412.8767	1,412.8767	0.0271	0.0259	1,421.2727
Strip Mall	147.288	1.5900e-003	0.0144	0.0121	9.0000e-005		1.1000e-003	1.1000e-003		1.1000e-003	1.1000e-003		17.3280	17.3280	3.3000e-004	3.2000e-004	17.4309
Total		**1.9451**	**16.7705**	**8.1658**	**0.1061**		**1.3439**	**1.3439**		**1.3439**	**1.3439**		**21,218.8697**	**21,218.8697**	**0.4067**	**0.3890**	**21,344.9628**

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					
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	117.985	1.2724	10.8731	4.6269	0.0694		0.8791	0.8791		0.8791	0.8791		13,880.6002	13,880.6002	0.2660	0.2545	13,963.0856
Condo/Townhouse	25.3289	0.2732	2.3342	0.9933	0.0149		0.1887	0.1887		0.1887	0.1887		2,979.8720	2,979.8720	0.0571	0.0546	2,997.5799
General Light Industry	5.04312	0.0544	0.4944	0.4153	2.9700e-003		0.0376	0.0376		0.0376	0.0376		593.3086	593.3086	0.0114	0.0109	596.8344
General Light Industry	7.6411	0.0824	0.7491	0.6293	4.4900e-003		0.0569	0.0569		0.0569	0.0569		898.9525	898.9525	0.0172	0.0165	904.2945
Office Park	11.0556	0.1192	1.0839	0.9105	6.5000e-003		0.0824	0.0824		0.0824	0.0824		1,300.6559	1,300.6559	0.0249	0.0239	1,308.3851
Strip Mall	0.139726	1.5100e-003	0.0137	0.0115	8.0000e-005		1.0400e-003	1.0400e-003		1.0400e-003	1.0400e-003		16.4384	16.4384	3.2000e-004	3.0000e-004	16.5360
Total		**1.8031**	**15.5485**	**7.5867**	**0.0983**		**1.2458**	**1.2458**		**1.2458**	**1.2458**		**19,669.8275**	**19,669.8275**	**0.3770**	**0.3606**	**19,786.7154**

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	106.0436	58.0996	298.4351	0.3649		5.9405	5.9405		5.9405	5.9405	0.0000	70,585.9527	70,585.9527	1.8311	1.2851	71,014.6781
Unmitigated	106.0436	58.0996	298.4351	0.3649		5.9405	5.9405		5.9405	5.9405	0.0000	70,585.9527	70,585.9527	1.8311	1.2851	71,014.6781

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	8.0041					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	83.1310					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	6.4253	54.9071	23.3647	0.3505		4.4393	4.4393		4.4393	4.4393	0.0000	70,094.1177	70,094.1177	1.3435	1.2851	70,510.6519
Landscaping	8.4832	3.1925	275.0704	0.0144		1.5012	1.5012		1.5012	1.5012		491.8350	491.8350	0.4876		504.0261
Total	**106.0436**	**58.0996**	**298.4351**	**0.3649**		**5.9405**	**5.9405**		**5.9405**	**5.9405**	**0.0000**	**70,585.9527**	**70,585.9527**	**1.8311**	**1.2851**	**71,014.6781**

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	8.0041					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	83.1310					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	6.4253	54.9071	23.3647	0.3505		4.4393	4.4393		4.4393	4.4393	0.0000	70,094.1177	70,094.1177	1.3435	1.2851	70,510.6519
Landscaping	8.4832	3.1925	275.0704	0.0144		1.5012	1.5012		1.5012	1.5012		491.8350	491.8350	0.4876		504.0261
Total	**106.0436**	**58.0996**	**298.4351**	**0.3649**		**5.9405**	**5.9405**		**5.9405**	**5.9405**	**0.0000**	**70,585.9527**	**70,585.9527**	**1.8311**	**1.2851**	**71,014.6781**

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 Stationary Equipment

Fire Pumps and Emergency Generators

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

Boilers

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

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

Stone Creek Phase 1, 2A, 2B

San Diego Air Basin, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Office Park	135.00	1000sqft	3.10	135,000.00	0
General Light Industry	165.00	1000sqft	3.79	165,000.00	0
General Light Industry	250.00	1000sqft	5.74	250,000.00	0
City Park	5.98	Acre	5.98	260,488.80	0
Condo/Townhouse	585.00	Dwelling Unit	36.56	585,000.00	1673
Condo/Townhouse	2,725.00	Dwelling Unit	170.31	2,725,000.00	7794
Strip Mall	24.00	1000sqft	0.55	24,000.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.6	**Precipitation Freq (Days)**	40
Climate Zone	13			**Operational Year**	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

Project Characteristics -

Land Use - Based on project description

Vehicle Trips - Based on traffic analysis

Vehicle Emission Factors -

Vehicle Emission Factors -

Vehicle Emission Factors -

Woodstoves - Natural gas fireplaces

Area Coating - Ruel 67.0.1 coatings

Energy Use -

Mobile Land Use Mitigation -

Energy Mitigation -

Water Mitigation -

Table Name	Column Name	Default Value	New Value
tblAreaCoating	Area_EF_Nonresidential_Exterior	250	100
tblAreaCoating	Area_EF_Nonresidential_Interior	250	50
tblAreaCoating	Area_EF_Residential_Exterior	250	100
tblAreaCoating	Area_EF_Residential_Interior	250	50
tblFireplaces	NumberGas	1,820.50	1,655.00
tblFireplaces	NumberNoFireplace	331.00	0.00
tblFireplaces	NumberWood	1,158.50	0.00
tblFleetMix	HHD	0.02	0.03
tblFleetMix	HHD	0.02	0.03
tblFleetMix	HHD	0.02	0.03
tblFleetMix	HHD	0.02	0.03
tblFleetMix	HHD	0.02	0.03
tblFleetMix	HHD	0.02	0.03
tblFleetMix	HHD	0.02	0.03
tblFleetMix	LDA	0.57	0.62
tblFleetMix	LDA	0.57	0.62
tblFleetMix	LDA	0.57	0.62
tblFleetMix	LDA	0.57	0.62
tblFleetMix	LDA	0.57	0.62
tblFleetMix	LDA	0.57	0.62
tblFleetMix	LDA	0.57	0.62
tblFleetMix	LDT1	0.05	0.04

tblFleetMix	LDT1	0.05	0.04
tblFleetMix	LDT1	0.05	0.04
tblFleetMix	LDT1	0.05	0.04
tblFleetMix	LDT1	0.05	0.04
tblFleetMix	LDT1	0.05	0.04
tblFleetMix	LDT1	0.05	0.04
tblFleetMix	LDT2	0.19	0.18
tblFleetMix	LDT2	0.19	0.18
tblFleetMix	LDT2	0.19	0.18
tblFleetMix	LDT2	0.19	0.18
tblFleetMix	LDT2	0.19	0.18
tblFleetMix	LDT2	0.19	0.18
tblFleetMix	LDT2	0.19	0.18
tblFleetMix	LHD1	0.02	0.01
tblFleetMix	LHD1	0.02	0.01
tblFleetMix	LHD1	0.02	0.01
tblFleetMix	LHD1	0.02	0.01
tblFleetMix	LHD1	0.02	0.01
tblFleetMix	LHD1	0.02	0.01
tblFleetMix	LHD1	0.02	0.01
tblFleetMix	LHD2	5.6460e-003	5.2790e-003
tblFleetMix	LHD2	5.6460e-003	5.2790e-003
tblFleetMix	LHD2	5.6460e-003	5.2790e-003
tblFleetMix	LHD2	5.6460e-003	5.2790e-003
tblFleetMix	LHD2	5.6460e-003	5.2790e-003
tblFleetMix	LHD2	5.6460e-003	5.2790e-003
tblFleetMix	LHD2	5.6460e-003	5.2790e-003
tblFleetMix	MCY	6.3850e-003	5.6170e-003
tblFleetMix	MCY	6.3850e-003	5.6170e-003
tblFleetMix	MCY	6.3850e-003	5.6170e-003

tblFleetMix	MCY	6.3850e-003	5.6170e-003
tblFleetMix	MCY	6.3850e-003	5.6170e-003
tblFleetMix	MCY	6.3850e-003	5.6170e-003
tblFleetMix	MCY	6.3850e-003	5.6170e-003
tblFleetMix	MDV	0.12	0.10
tblFleetMix	MDV	0.12	0.10
tblFleetMix	MDV	0.12	0.10
tblFleetMix	MDV	0.12	0.10
tblFleetMix	MDV	0.12	0.10
tblFleetMix	MDV	0.12	0.10
tblFleetMix	MDV	0.12	0.10
tblFleetMix	MH	1.4520e-003	7.8200e-004
tblFleetMix	MH	1.4520e-003	7.8200e-004
tblFleetMix	MH	1.4520e-003	7.8200e-004
tblFleetMix	MH	1.4520e-003	7.8200e-004
tblFleetMix	MH	1.4520e-003	7.8200e-004
tblFleetMix	MH	1.4520e-003	7.8200e-004
tblFleetMix	MH	1.4520e-003	7.8200e-004
tblFleetMix	MHD	0.01	0.02
tblFleetMix	MHD	0.01	0.02
tblFleetMix	MHD	0.01	0.02
tblFleetMix	MHD	0.01	0.02
tblFleetMix	MHD	0.01	0.02
tblFleetMix	MHD	0.01	0.02
tblFleetMix	MHD	0.01	0.02
tblFleetMix	OBUS	1.8710e-003	1.9310e-003
tblFleetMix	OBUS	1.8710e-003	1.9310e-003
tblFleetMix	OBUS	1.8710e-003	1.9310e-003
tblFleetMix	OBUS	1.8710e-003	1.9310e-003
tblFleetMix	OBUS	1.8710e-003	1.9310e-003

tblFleetMix	OBUS	1.8710e-003	1.9310e-003
tblFleetMix	OBUS	1.8710e-003	1.9310e-003
tblFleetMix	SBUS	7.3900e-004	7.8500e-004
tblFleetMix	SBUS	7.3900e-004	7.8500e-004
tblFleetMix	SBUS	7.3900e-004	7.8500e-004
tblFleetMix	SBUS	7.3900e-004	7.8500e-004
tblFleetMix	SBUS	7.3900e-004	7.8500e-004
tblFleetMix	SBUS	7.3900e-004	7.8500e-004
tblFleetMix	SBUS	7.3900e-004	7.8500e-004
tblFleetMix	UBUS	2.1730e-003	1.6770e-003
tblFleetMix	UBUS	2.1730e-003	1.6770e-003
tblFleetMix	UBUS	2.1730e-003	1.6770e-003
tblFleetMix	UBUS	2.1730e-003	1.6770e-003
tblFleetMix	UBUS	2.1730e-003	1.6770e-003
tblFleetMix	UBUS	2.1730e-003	1.6770e-003
tblFleetMix	UBUS	2.1730e-003	1.6770e-003
tblVehicleEF	HHD	0.90	0.45
tblVehicleEF	HHD	0.12	0.14
tblVehicleEF	HHD	0.16	0.05
tblVehicleEF	HHD	3.25	1.51
tblVehicleEF	HHD	1.16	1.20
tblVehicleEF	HHD	4.23	3.60
tblVehicleEF	HHD	4,736.31	4,164.31
tblVehicleEF	HHD	1,724.07	1,529.79
tblVehicleEF	HHD	11.59	11.27
tblVehicleEF	HHD	0.02	0.03
tblVehicleEF	HHD	25.87	12.87
tblVehicleEF	HHD	5.06	1.56
tblVehicleEF	HHD	19.65	19.33
tblVehicleEF	HHD	0.04	4.7760e-003

tblVehicleEF	HHD	0.06	0.06
tblVehicleEF	HHD	0.04	0.04
tblVehicleEF	HHD	0.03	5.5740e-003
tblVehicleEF	HHD	2.2000e-004	1.2300e-004
tblVehicleEF	HHD	0.04	4.5690e-003
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	8.8140e-003	8.8090e-003
tblVehicleEF	HHD	0.03	5.3320e-003
tblVehicleEF	HHD	2.0600e-004	1.1300e-004
tblVehicleEF	HHD	1.5400e-004	8.3000e-005
tblVehicleEF	HHD	9.7110e-003	4.1090e-003
tblVehicleEF	HHD	0.81	0.37
tblVehicleEF	HHD	1.3700e-004	8.1000e-005
tblVehicleEF	HHD	0.16	0.08
tblVehicleEF	HHD	9.2000e-004	3.8000e-004
tblVehicleEF	HHD	0.17	0.06
tblVehicleEF	HHD	0.04	0.04
tblVehicleEF	HHD	0.02	0.01
tblVehicleEF	HHD	1.8700e-004	1.7100e-004
tblVehicleEF	HHD	1.5400e-004	8.3000e-005
tblVehicleEF	HHD	9.7110e-003	4.1090e-003
tblVehicleEF	HHD	0.95	0.45
tblVehicleEF	HHD	1.3700e-004	8.1000e-005
tblVehicleEF	HHD	0.30	0.23
tblVehicleEF	HHD	9.2000e-004	3.8000e-004
tblVehicleEF	HHD	0.18	0.07
tblVehicleEF	HHD	0.85	0.43
tblVehicleEF	HHD	0.12	0.14
tblVehicleEF	HHD	0.16	0.05
tblVehicleEF	HHD	2.38	1.10

tblVehicleEF	HHD	1.16	1.21
tblVehicleEF	HHD	3.99	3.38
tblVehicleEF	HHD	5,012.84	4,411.72
tblVehicleEF	HHD	1,724.07	1,529.79
tblVehicleEF	HHD	11.59	11.27
tblVehicleEF	HHD	0.02	0.03
tblVehicleEF	HHD	26.69	13.28
tblVehicleEF	HHD	4.87	1.50
tblVehicleEF	HHD	19.63	19.31
tblVehicleEF	HHD	0.04	4.0260e-003
tblVehicleEF	HHD	0.06	0.06
tblVehicleEF	HHD	0.04	0.04
tblVehicleEF	HHD	0.03	5.5740e-003
tblVehicleEF	HHD	2.2000e-004	1.2300e-004
tblVehicleEF	HHD	0.04	3.8520e-003
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	8.8140e-003	8.8090e-003
tblVehicleEF	HHD	0.03	5.3320e-003
tblVehicleEF	HHD	2.0600e-004	1.1300e-004
tblVehicleEF	HHD	2.3700e-004	1.2200e-004
tblVehicleEF	HHD	9.9220e-003	4.2400e-003
tblVehicleEF	HHD	0.77	0.35
tblVehicleEF	HHD	2.6100e-004	1.3600e-004
tblVehicleEF	HHD	0.16	0.08
tblVehicleEF	HHD	9.0700e-004	3.6200e-004
tblVehicleEF	HHD	0.16	0.06
tblVehicleEF	HHD	0.05	0.04
tblVehicleEF	HHD	0.02	0.01
tblVehicleEF	HHD	1.8300e-004	1.6800e-004
tblVehicleEF	HHD	2.3700e-004	1.2200e-004

tblVehicleEF	HHD	9.9220e-003	4.2400e-003
tblVehicleEF	HHD	0.90	0.42
tblVehicleEF	HHD	2.6100e-004	1.3600e-004
tblVehicleEF	HHD	0.30	0.23
tblVehicleEF	HHD	9.0700e-004	3.6200e-004
tblVehicleEF	HHD	0.17	0.07
tblVehicleEF	HHD	0.97	0.49
tblVehicleEF	HHD	0.12	0.14
tblVehicleEF	HHD	0.17	0.06
tblVehicleEF	HHD	4.46	2.09
tblVehicleEF	HHD	1.15	1.20
tblVehicleEF	HHD	4.34	3.69
tblVehicleEF	HHD	4,354.42	3,822.66
tblVehicleEF	HHD	1,724.07	1,529.79
tblVehicleEF	HHD	11.59	11.27
tblVehicleEF	HHD	0.02	0.03
tblVehicleEF	HHD	24.74	12.30
tblVehicleEF	HHD	5.05	1.55
tblVehicleEF	HHD	19.66	19.34
tblVehicleEF	HHD	0.05	5.8110e-003
tblVehicleEF	HHD	0.06	0.06
tblVehicleEF	HHD	0.04	0.04
tblVehicleEF	HHD	0.03	5.5740e-003
tblVehicleEF	HHD	2.2000e-004	1.2300e-004
tblVehicleEF	HHD	0.05	5.5590e-003
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	8.8140e-003	8.8090e-003
tblVehicleEF	HHD	0.03	5.3320e-003
tblVehicleEF	HHD	2.0600e-004	1.1300e-004
tblVehicleEF	HHD	1.4100e-004	7.0000e-005

tblVehicleEF	HHD	0.01	4.3390e-003
tblVehicleEF	HHD	0.87	0.40
tblVehicleEF	HHD	1.1900e-004	7.1000e-005
tblVehicleEF	HHD	0.16	0.08
tblVehicleEF	HHD	9.9800e-004	4.2600e-004
tblVehicleEF	HHD	0.17	0.07
tblVehicleEF	HHD	0.04	0.03
tblVehicleEF	HHD	0.02	0.01
tblVehicleEF	HHD	1.8900e-004	1.7300e-004
tblVehicleEF	HHD	1.4100e-004	7.0000e-005
tblVehicleEF	HHD	0.01	4.3390e-003
tblVehicleEF	HHD	1.03	0.48
tblVehicleEF	HHD	1.1900e-004	7.1000e-005
tblVehicleEF	HHD	0.30	0.23
tblVehicleEF	HHD	9.9800e-004	4.2600e-004
tblVehicleEF	HHD	0.19	0.07
tblVehicleEF	LDA	8.9880e-003	4.5090e-003
tblVehicleEF	LDA	0.01	4.9600e-003
tblVehicleEF	LDA	0.79	0.43
tblVehicleEF	LDA	2.14	0.99
tblVehicleEF	LDA	302.73	192.33
tblVehicleEF	LDA	64.65	41.79
tblVehicleEF	LDA	0.57	0.62
tblVehicleEF	LDA	0.09	0.04
tblVehicleEF	LDA	0.13	0.04
tblVehicleEF	LDA	1.9100e-003	1.2630e-003
tblVehicleEF	LDA	2.2820e-003	1.8190e-003
tblVehicleEF	LDA	1.7640e-003	1.1620e-003
tblVehicleEF	LDA	2.1000e-003	1.6730e-003
tblVehicleEF	LDA	0.04	0.02

tblVehicleEF	LDA	0.12	0.05
tblVehicleEF	LDA	0.04	0.02
tblVehicleEF	LDA	0.02	0.01
tblVehicleEF	LDA	0.04	0.03
tblVehicleEF	LDA	0.17	0.07
tblVehicleEF	LDA	3.0340e-003	1.9260e-003
tblVehicleEF	LDA	6.8500e-004	4.3500e-004
tblVehicleEF	LDA	0.04	0.02
tblVehicleEF	LDA	0.12	0.05
tblVehicleEF	LDA	0.04	0.02
tblVehicleEF	LDA	0.03	0.02
tblVehicleEF	LDA	0.04	0.03
tblVehicleEF	LDA	0.18	0.07
tblVehicleEF	LDA	9.6570e-003	4.8600e-003
tblVehicleEF	LDA	0.01	4.3360e-003
tblVehicleEF	LDA	0.89	0.48
tblVehicleEF	LDA	1.78	0.82
tblVehicleEF	LDA	320.02	203.23
tblVehicleEF	LDA	64.65	41.79
tblVehicleEF	LDA	0.57	0.62
tblVehicleEF	LDA	0.08	0.04
tblVehicleEF	LDA	0.12	0.04
tblVehicleEF	LDA	1.9100e-003	1.2630e-003
tblVehicleEF	LDA	2.2820e-003	1.8190e-003
tblVehicleEF	LDA	1.7640e-003	1.1620e-003
tblVehicleEF	LDA	2.1000e-003	1.6730e-003
tblVehicleEF	LDA	0.06	0.03
tblVehicleEF	LDA	0.13	0.06
tblVehicleEF	LDA	0.07	0.03
tblVehicleEF	LDA	0.03	0.01

tblVehicleEF	LDA	0.04	0.03
tblVehicleEF	LDA	0.15	0.06
tblVehicleEF	LDA	3.2080e-003	2.0350e-003
tblVehicleEF	LDA	6.7800e-004	4.3200e-004
tblVehicleEF	LDA	0.06	0.03
tblVehicleEF	LDA	0.13	0.06
tblVehicleEF	LDA	0.07	0.03
tblVehicleEF	LDA	0.04	0.02
tblVehicleEF	LDA	0.04	0.03
tblVehicleEF	LDA	0.16	0.06
tblVehicleEF	LDA	8.8490e-003	4.4310e-003
tblVehicleEF	LDA	0.01	5.2140e-003
tblVehicleEF	LDA	0.78	0.42
tblVehicleEF	LDA	2.30	1.06
tblVehicleEF	LDA	299.60	190.35
tblVehicleEF	LDA	64.65	41.79
tblVehicleEF	LDA	0.57	0.62
tblVehicleEF	LDA	0.09	0.04
tblVehicleEF	LDA	0.14	0.05
tblVehicleEF	LDA	1.9100e-003	1.2630e-003
tblVehicleEF	LDA	2.2820e-003	1.8190e-003
tblVehicleEF	LDA	1.7640e-003	1.1620e-003
tblVehicleEF	LDA	2.1000e-003	1.6730e-003
tblVehicleEF	LDA	0.03	0.01
tblVehicleEF	LDA	0.14	0.06
tblVehicleEF	LDA	0.04	0.02
tblVehicleEF	LDA	0.02	0.01
tblVehicleEF	LDA	0.05	0.04
tblVehicleEF	LDA	0.18	0.07
tblVehicleEF	LDA	3.0020e-003	1.9060e-003

tblVehicleEF	LDA	6.8700e-004	4.3600e-004
tblVehicleEF	LDA	0.03	0.01
tblVehicleEF	LDA	0.14	0.06
tblVehicleEF	LDA	0.04	0.02
tblVehicleEF	LDA	0.03	0.02
tblVehicleEF	LDA	0.05	0.04
tblVehicleEF	LDA	0.19	0.08
tblVehicleEF	LDT1	0.02	5.1520e-003
tblVehicleEF	LDT1	0.02	6.6990e-003
tblVehicleEF	LDT1	1.85	0.64
tblVehicleEF	LDT1	4.41	1.45
tblVehicleEF	LDT1	366.29	256.31
tblVehicleEF	LDT1	77.67	56.62
tblVehicleEF	LDT1	0.05	0.04
tblVehicleEF	LDT1	0.20	0.06
tblVehicleEF	LDT1	0.27	0.08
tblVehicleEF	LDT1	3.2940e-003	1.7250e-003
tblVehicleEF	LDT1	4.0330e-003	2.3780e-003
tblVehicleEF	LDT1	3.0370e-003	1.5860e-003
tblVehicleEF	LDT1	3.7120e-003	2.1860e-003
tblVehicleEF	LDT1	0.13	0.07
tblVehicleEF	LDT1	0.35	0.17
tblVehicleEF	LDT1	0.13	0.07
tblVehicleEF	LDT1	0.05	0.01
tblVehicleEF	LDT1	0.24	0.13
tblVehicleEF	LDT1	0.32	0.09
tblVehicleEF	LDT1	3.6870e-003	2.5690e-003
tblVehicleEF	LDT1	8.5500e-004	5.9100e-004
tblVehicleEF	LDT1	0.13	0.07
tblVehicleEF	LDT1	0.35	0.17

tblVehicleEF	LDT1	0.13	0.07
tblVehicleEF	LDT1	0.07	0.02
tblVehicleEF	LDT1	0.24	0.13
tblVehicleEF	LDT1	0.35	0.10
tblVehicleEF	LDT1	0.02	5.5250e-003
tblVehicleEF	LDT1	0.02	5.8260e-003
tblVehicleEF	LDT1	2.03	0.72
tblVehicleEF	LDT1	3.63	1.20
tblVehicleEF	LDT1	385.96	270.38
tblVehicleEF	LDT1	77.67	56.62
tblVehicleEF	LDT1	0.05	0.04
tblVehicleEF	LDT1	0.18	0.06
tblVehicleEF	LDT1	0.24	0.07
tblVehicleEF	LDT1	3.2940e-003	1.7250e-003
tblVehicleEF	LDT1	4.0330e-003	2.3780e-003
tblVehicleEF	LDT1	3.0370e-003	1.5860e-003
tblVehicleEF	LDT1	3.7120e-003	2.1860e-003
tblVehicleEF	LDT1	0.20	0.10
tblVehicleEF	LDT1	0.37	0.18
tblVehicleEF	LDT1	0.22	0.12
tblVehicleEF	LDT1	0.05	0.01
tblVehicleEF	LDT1	0.22	0.12
tblVehicleEF	LDT1	0.28	0.08
tblVehicleEF	LDT1	3.8860e-003	2.7110e-003
tblVehicleEF	LDT1	8.4100e-004	5.8700e-004
tblVehicleEF	LDT1	0.20	0.10
tblVehicleEF	LDT1	0.37	0.18
tblVehicleEF	LDT1	0.22	0.12
tblVehicleEF	LDT1	0.07	0.02
tblVehicleEF	LDT1	0.22	0.12

tblVehicleEF	LDT1	0.31	0.09
tblVehicleEF	LDT1	0.02	5.0690e-003
tblVehicleEF	LDT1	0.03	7.0560e-003
tblVehicleEF	LDT1	1.83	0.63
tblVehicleEF	LDT1	4.75	1.56
tblVehicleEF	LDT1	362.74	253.77
tblVehicleEF	LDT1	77.67	56.62
tblVehicleEF	LDT1	0.05	0.04
tblVehicleEF	LDT1	0.20	0.06
tblVehicleEF	LDT1	0.28	0.08
tblVehicleEF	LDT1	3.2940e-003	1.7250e-003
tblVehicleEF	LDT1	4.0330e-003	2.3780e-003
tblVehicleEF	LDT1	3.0370e-003	1.5860e-003
tblVehicleEF	LDT1	3.7120e-003	2.1860e-003
tblVehicleEF	LDT1	0.11	0.05
tblVehicleEF	LDT1	0.41	0.20
tblVehicleEF	LDT1	0.11	0.06
tblVehicleEF	LDT1	0.05	0.01
tblVehicleEF	LDT1	0.29	0.16
tblVehicleEF	LDT1	0.34	0.10
tblVehicleEF	LDT1	3.6510e-003	2.5430e-003
tblVehicleEF	LDT1	8.6100e-004	5.9300e-004
tblVehicleEF	LDT1	0.11	0.05
tblVehicleEF	LDT1	0.41	0.20
tblVehicleEF	LDT1	0.11	0.06
tblVehicleEF	LDT1	0.07	0.02
tblVehicleEF	LDT1	0.29	0.16
tblVehicleEF	LDT1	0.37	0.10
tblVehicleEF	LDT2	8.3320e-003	3.1590e-003
tblVehicleEF	LDT2	0.01	2.9700e-003

tblVehicleEF	LDT2	0.96	0.47
tblVehicleEF	LDT2	2.28	0.83
tblVehicleEF	LDT2	417.16	280.32
tblVehicleEF	LDT2	89.41	60.83
tblVehicleEF	LDT2	0.19	0.18
tblVehicleEF	LDT2	0.12	0.04
tblVehicleEF	LDT2	0.21	0.05
tblVehicleEF	LDT2	1.7410e-003	1.4240e-003
tblVehicleEF	LDT2	2.1940e-003	2.0110e-003
tblVehicleEF	LDT2	1.6020e-003	1.3100e-003
tblVehicleEF	LDT2	2.0190e-003	1.8490e-003
tblVehicleEF	LDT2	0.05	0.03
tblVehicleEF	LDT2	0.14	0.07
tblVehicleEF	LDT2	0.06	0.04
tblVehicleEF	LDT2	0.02	7.8470e-003
tblVehicleEF	LDT2	0.08	0.05
tblVehicleEF	LDT2	0.15	0.04
tblVehicleEF	LDT2	4.1800e-003	2.8050e-003
tblVehicleEF	LDT2	9.3300e-004	6.2100e-004
tblVehicleEF	LDT2	0.05	0.03
tblVehicleEF	LDT2	0.14	0.07
tblVehicleEF	LDT2	0.06	0.04
tblVehicleEF	LDT2	0.03	0.01
tblVehicleEF	LDT2	0.08	0.05
tblVehicleEF	LDT2	0.17	0.04
tblVehicleEF	LDT2	8.9220e-003	3.4010e-003
tblVehicleEF	LDT2	9.8930e-003	2.6070e-003
tblVehicleEF	LDT2	1.07	0.52
tblVehicleEF	LDT2	1.89	0.70
tblVehicleEF	LDT2	440.30	295.89

tblVehicleEF	LDT2	89.41	60.83
tblVehicleEF	LDT2	0.19	0.18
tblVehicleEF	LDT2	0.10	0.04
tblVehicleEF	LDT2	0.19	0.04
tblVehicleEF	LDT2	1.7410e-003	1.4240e-003
tblVehicleEF	LDT2	2.1940e-003	2.0110e-003
tblVehicleEF	LDT2	1.6020e-003	1.3100e-003
tblVehicleEF	LDT2	2.0190e-003	1.8490e-003
tblVehicleEF	LDT2	0.07	0.04
tblVehicleEF	LDT2	0.15	0.07
tblVehicleEF	LDT2	0.10	0.06
tblVehicleEF	LDT2	0.02	8.4450e-003
tblVehicleEF	LDT2	0.07	0.05
tblVehicleEF	LDT2	0.13	0.04
tblVehicleEF	LDT2	4.4120e-003	2.9620e-003
tblVehicleEF	LDT2	9.2700e-004	6.1900e-004
tblVehicleEF	LDT2	0.07	0.04
tblVehicleEF	LDT2	0.15	0.07
tblVehicleEF	LDT2	0.10	0.06
tblVehicleEF	LDT2	0.03	0.01
tblVehicleEF	LDT2	0.07	0.05
tblVehicleEF	LDT2	0.15	0.04
tblVehicleEF	LDT2	8.2100e-003	3.1060e-003
tblVehicleEF	LDT2	0.01	3.1190e-003
tblVehicleEF	LDT2	0.94	0.46
tblVehicleEF	LDT2	2.45	0.88
tblVehicleEF	LDT2	412.98	277.50
tblVehicleEF	LDT2	89.41	60.83
tblVehicleEF	LDT2	0.19	0.18
tblVehicleEF	LDT2	0.12	0.04

tblVehicleEF	LDT2	0.22	0.05
tblVehicleEF	LDT2	1.7410e-003	1.4240e-003
tblVehicleEF	LDT2	2.1940e-003	2.0110e-003
tblVehicleEF	LDT2	1.6020e-003	1.3100e-003
tblVehicleEF	LDT2	2.0190e-003	1.8490e-003
tblVehicleEF	LDT2	0.04	0.02
tblVehicleEF	LDT2	0.16	0.07
tblVehicleEF	LDT2	0.05	0.03
tblVehicleEF	LDT2	0.02	7.7150e-003
tblVehicleEF	LDT2	0.10	0.06
tblVehicleEF	LDT2	0.16	0.04
tblVehicleEF	LDT2	4.1380e-003	2.7770e-003
tblVehicleEF	LDT2	9.3600e-004	6.2200e-004
tblVehicleEF	LDT2	0.04	0.02
tblVehicleEF	LDT2	0.16	0.07
tblVehicleEF	LDT2	0.05	0.03
tblVehicleEF	LDT2	0.03	0.01
tblVehicleEF	LDT2	0.10	0.06
tblVehicleEF	LDT2	0.18	0.05
tblVehicleEF	LHD1	5.8110e-003	3.4680e-003
tblVehicleEF	LHD1	0.03	8.7340e-003
tblVehicleEF	LHD1	0.02	9.1570e-003
tblVehicleEF	LHD1	0.15	0.13
tblVehicleEF	LHD1	1.51	0.65
tblVehicleEF	LHD1	3.03	1.44
tblVehicleEF	LHD1	9.27	9.16
tblVehicleEF	LHD1	711.61	629.29
tblVehicleEF	LHD1	31.71	23.34
tblVehicleEF	LHD1	0.02	0.01
tblVehicleEF	LHD1	0.09	0.08

tblVehicleEF	LHD1	2.11	0.73
tblVehicleEF	LHD1	1.04	0.57
tblVehicleEF	LHD1	9.8800e-004	9.1500e-004
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	0.02	0.01
tblVehicleEF	LHD1	1.1430e-003	5.8400e-004
tblVehicleEF	LHD1	9.4600e-004	8.7500e-004
tblVehicleEF	LHD1	2.5170e-003	2.6490e-003
tblVehicleEF	LHD1	0.02	0.01
tblVehicleEF	LHD1	1.0540e-003	5.3700e-004
tblVehicleEF	LHD1	2.5040e-003	1.4830e-003
tblVehicleEF	LHD1	0.10	0.07
tblVehicleEF	LHD1	0.02	0.01
tblVehicleEF	LHD1	1.7880e-003	1.2180e-003
tblVehicleEF	LHD1	0.16	0.11
tblVehicleEF	LHD1	0.30	0.23
tblVehicleEF	LHD1	0.31	0.12
tblVehicleEF	LHD1	9.3000e-005	9.0000e-005
tblVehicleEF	LHD1	6.9900e-003	6.1350e-003
tblVehicleEF	LHD1	3.7400e-004	2.6000e-004
tblVehicleEF	LHD1	2.5040e-003	1.4830e-003
tblVehicleEF	LHD1	0.10	0.07
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	1.7880e-003	1.2180e-003
tblVehicleEF	LHD1	0.20	0.12
tblVehicleEF	LHD1	0.30	0.23
tblVehicleEF	LHD1	0.34	0.14
tblVehicleEF	LHD1	5.8110e-003	3.4680e-003
tblVehicleEF	LHD1	0.03	8.8400e-003
tblVehicleEF	LHD1	0.02	8.7530e-003

tblVehicleEF	LHD1	0.15	0.13
tblVehicleEF	LHD1	1.53	0.66
tblVehicleEF	LHD1	2.86	1.36
tblVehicleEF	LHD1	9.27	9.16
tblVehicleEF	LHD1	711.61	629.29
tblVehicleEF	LHD1	31.71	23.34
tblVehicleEF	LHD1	0.02	0.01
tblVehicleEF	LHD1	0.09	0.08
tblVehicleEF	LHD1	2.02	0.70
tblVehicleEF	LHD1	0.99	0.54
tblVehicleEF	LHD1	9.8800e-004	9.1500e-004
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	0.02	0.01
tblVehicleEF	LHD1	1.1430e-003	5.8400e-004
tblVehicleEF	LHD1	9.4600e-004	8.7500e-004
tblVehicleEF	LHD1	2.5170e-003	2.6490e-003
tblVehicleEF	LHD1	0.02	0.01
tblVehicleEF	LHD1	1.0540e-003	5.3700e-004
tblVehicleEF	LHD1	3.6390e-003	2.1340e-003
tblVehicleEF	LHD1	0.10	0.07
tblVehicleEF	LHD1	0.02	0.01
tblVehicleEF	LHD1	3.0850e-003	2.0120e-003
tblVehicleEF	LHD1	0.16	0.11
tblVehicleEF	LHD1	0.29	0.23
tblVehicleEF	LHD1	0.30	0.12
tblVehicleEF	LHD1	9.3000e-005	9.0000e-005
tblVehicleEF	LHD1	6.9910e-003	6.1350e-003
tblVehicleEF	LHD1	3.7100e-004	2.5800e-004
tblVehicleEF	LHD1	3.6390e-003	2.1340e-003
tblVehicleEF	LHD1	0.10	0.07

tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	3.0850e-003	2.0120e-003
tblVehicleEF	LHD1	0.20	0.12
tblVehicleEF	LHD1	0.29	0.23
tblVehicleEF	LHD1	0.32	0.13
tblVehicleEF	LHD1	5.8110e-003	3.4680e-003
tblVehicleEF	LHD1	0.03	8.6870e-003
tblVehicleEF	LHD1	0.02	9.3380e-003
tblVehicleEF	LHD1	0.15	0.13
tblVehicleEF	LHD1	1.50	0.65
tblVehicleEF	LHD1	3.10	1.47
tblVehicleEF	LHD1	9.27	9.16
tblVehicleEF	LHD1	711.61	629.29
tblVehicleEF	LHD1	31.71	23.34
tblVehicleEF	LHD1	0.02	0.01
tblVehicleEF	LHD1	0.09	0.08
tblVehicleEF	LHD1	2.10	0.73
tblVehicleEF	LHD1	1.06	0.58
tblVehicleEF	LHD1	9.8800e-004	9.1500e-004
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	0.02	0.01
tblVehicleEF	LHD1	1.1430e-003	5.8400e-004
tblVehicleEF	LHD1	9.4600e-004	8.7500e-004
tblVehicleEF	LHD1	2.5170e-003	2.6490e-003
tblVehicleEF	LHD1	0.02	0.01
tblVehicleEF	LHD1	1.0540e-003	5.3700e-004
tblVehicleEF	LHD1	2.3660e-003	1.3290e-003
tblVehicleEF	LHD1	0.12	0.08
tblVehicleEF	LHD1	0.02	0.01
tblVehicleEF	LHD1	1.5810e-003	1.0740e-003

tblVehicleEF	LHD1	0.16	0.11
tblVehicleEF	LHD1	0.33	0.26
tblVehicleEF	LHD1	0.32	0.13
tblVehicleEF	LHD1	9.3000e-005	9.0000e-005
tblVehicleEF	LHD1	6.9900e-003	6.1350e-003
tblVehicleEF	LHD1	3.7600e-004	2.6000e-004
tblVehicleEF	LHD1	2.3660e-003	1.3290e-003
tblVehicleEF	LHD1	0.12	0.08
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	1.5810e-003	1.0740e-003
tblVehicleEF	LHD1	0.20	0.12
tblVehicleEF	LHD1	0.33	0.26
tblVehicleEF	LHD1	0.35	0.14
tblVehicleEF	LHD2	4.3370e-003	2.5650e-003
tblVehicleEF	LHD2	0.01	5.2260e-003
tblVehicleEF	LHD2	0.01	3.2150e-003
tblVehicleEF	LHD2	0.13	0.12
tblVehicleEF	LHD2	0.81	0.45
tblVehicleEF	LHD2	1.57	0.86
tblVehicleEF	LHD2	14.30	13.65
tblVehicleEF	LHD2	747.65	675.38
tblVehicleEF	LHD2	26.59	21.91
tblVehicleEF	LHD2	5.6460e-003	5.2790e-003
tblVehicleEF	LHD2	0.12	0.07
tblVehicleEF	LHD2	1.59	0.25
tblVehicleEF	LHD2	0.62	0.27
tblVehicleEF	LHD2	1.3200e-003	1.0480e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.02	9.4780e-003
tblVehicleEF	LHD2	5.3600e-004	3.6400e-004

tblVehicleEF	LHD2	1.2630e-003	1.0030e-003
tblVehicleEF	LHD2	2.6630e-003	2.7070e-003
tblVehicleEF	LHD2	0.02	9.0450e-003
tblVehicleEF	LHD2	4.9400e-004	3.3500e-004
tblVehicleEF	LHD2	1.0640e-003	4.7000e-004
tblVehicleEF	LHD2	0.04	0.02
tblVehicleEF	LHD2	0.02	0.01
tblVehicleEF	LHD2	7.9800e-004	4.3800e-004
tblVehicleEF	LHD2	0.13	0.09
tblVehicleEF	LHD2	0.10	0.04
tblVehicleEF	LHD2	0.16	0.04
tblVehicleEF	LHD2	1.4000e-004	1.3300e-004
tblVehicleEF	LHD2	7.2820e-003	6.5620e-003
tblVehicleEF	LHD2	2.9500e-004	2.3400e-004
tblVehicleEF	LHD2	1.0640e-003	4.7000e-004
tblVehicleEF	LHD2	0.04	0.02
tblVehicleEF	LHD2	0.02	0.01
tblVehicleEF	LHD2	7.9800e-004	4.3800e-004
tblVehicleEF	LHD2	0.15	0.10
tblVehicleEF	LHD2	0.10	0.04
tblVehicleEF	LHD2	0.17	0.05
tblVehicleEF	LHD2	4.3370e-003	2.5650e-003
tblVehicleEF	LHD2	0.01	5.2530e-003
tblVehicleEF	LHD2	0.01	3.1280e-003
tblVehicleEF	LHD2	0.13	0.12
tblVehicleEF	LHD2	0.82	0.45
tblVehicleEF	LHD2	1.49	0.81
tblVehicleEF	LHD2	14.30	13.65
tblVehicleEF	LHD2	747.65	675.38
tblVehicleEF	LHD2	26.59	21.91

tblVehicleEF	LHD2	5.6460e-003	5.2790e-003
tblVehicleEF	LHD2	0.12	0.07
tblVehicleEF	LHD2	1.53	0.24
tblVehicleEF	LHD2	0.59	0.26
tblVehicleEF	LHD2	1.3200e-003	1.0480e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.02	9.4780e-003
tblVehicleEF	LHD2	5.3600e-004	3.6400e-004
tblVehicleEF	LHD2	1.2630e-003	1.0030e-003
tblVehicleEF	LHD2	2.6630e-003	2.7070e-003
tblVehicleEF	LHD2	0.02	9.0450e-003
tblVehicleEF	LHD2	4.9400e-004	3.3500e-004
tblVehicleEF	LHD2	1.5480e-003	6.8400e-004
tblVehicleEF	LHD2	0.05	0.02
tblVehicleEF	LHD2	0.02	0.01
tblVehicleEF	LHD2	1.3770e-003	7.3000e-004
tblVehicleEF	LHD2	0.13	0.09
tblVehicleEF	LHD2	0.10	0.04
tblVehicleEF	LHD2	0.15	0.04
tblVehicleEF	LHD2	1.4000e-004	1.3300e-004
tblVehicleEF	LHD2	7.2820e-003	6.5620e-003
tblVehicleEF	LHD2	2.9400e-004	2.3300e-004
tblVehicleEF	LHD2	1.5480e-003	6.8400e-004
tblVehicleEF	LHD2	0.05	0.02
tblVehicleEF	LHD2	0.02	0.01
tblVehicleEF	LHD2	1.3770e-003	7.3000e-004
tblVehicleEF	LHD2	0.15	0.10
tblVehicleEF	LHD2	0.10	0.04
tblVehicleEF	LHD2	0.16	0.05
tblVehicleEF	LHD2	4.3370e-003	2.5650e-003

tblVehicleEF	LHD2	0.01	5.2140e-003
tblVehicleEF	LHD2	0.01	3.2540e-003
tblVehicleEF	LHD2	0.13	0.12
tblVehicleEF	LHD2	0.81	0.45
tblVehicleEF	LHD2	1.61	0.88
tblVehicleEF	LHD2	14.30	13.65
tblVehicleEF	LHD2	747.65	675.38
tblVehicleEF	LHD2	26.59	21.91
tblVehicleEF	LHD2	5.6460e-003	5.2790e-003
tblVehicleEF	LHD2	0.12	0.07
tblVehicleEF	LHD2	1.58	0.25
tblVehicleEF	LHD2	0.63	0.27
tblVehicleEF	LHD2	1.3200e-003	1.0480e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.02	9.4780e-003
tblVehicleEF	LHD2	5.3600e-004	3.6400e-004
tblVehicleEF	LHD2	1.2630e-003	1.0030e-003
tblVehicleEF	LHD2	2.6630e-003	2.7070e-003
tblVehicleEF	LHD2	0.02	9.0450e-003
tblVehicleEF	LHD2	4.9400e-004	3.3500e-004
tblVehicleEF	LHD2	9.9100e-004	4.0100e-004
tblVehicleEF	LHD2	0.05	0.02
tblVehicleEF	LHD2	0.02	0.01
tblVehicleEF	LHD2	7.0400e-004	3.8500e-004
tblVehicleEF	LHD2	0.13	0.09
tblVehicleEF	LHD2	0.11	0.04
tblVehicleEF	LHD2	0.16	0.04
tblVehicleEF	LHD2	1.4000e-004	1.3300e-004
tblVehicleEF	LHD2	7.2820e-003	6.5620e-003
tblVehicleEF	LHD2	2.9600e-004	2.3400e-004

tblVehicleEF	LHD2	9.9100e-004	4.0100e-004
tblVehicleEF	LHD2	0.05	0.02
tblVehicleEF	LHD2	0.02	0.01
tblVehicleEF	LHD2	7.0400e-004	3.8500e-004
tblVehicleEF	LHD2	0.15	0.10
tblVehicleEF	LHD2	0.11	0.04
tblVehicleEF	LHD2	0.17	0.05
tblVehicleEF	MCY	0.46	0.50
tblVehicleEF	MCY	0.16	0.15
tblVehicleEF	MCY	22.62	18.69
tblVehicleEF	MCY	9.64	9.87
tblVehicleEF	MCY	179.11	184.39
tblVehicleEF	MCY	47.50	43.18
tblVehicleEF	MCY	6.3850e-003	5.6170e-003
tblVehicleEF	MCY	1.18	1.14
tblVehicleEF	MCY	0.31	0.31
tblVehicleEF	MCY	1.8640e-003	2.3580e-003
tblVehicleEF	MCY	4.2080e-003	3.2410e-003
tblVehicleEF	MCY	1.7510e-003	2.1990e-003
tblVehicleEF	MCY	3.9870e-003	3.0330e-003
tblVehicleEF	MCY	0.92	0.90
tblVehicleEF	MCY	0.77	0.65
tblVehicleEF	MCY	0.73	0.68
tblVehicleEF	MCY	2.54	2.33
tblVehicleEF	MCY	0.64	0.44
tblVehicleEF	MCY	2.17	2.03
tblVehicleEF	MCY	2.2330e-003	2.2200e-003
tblVehicleEF	MCY	6.9700e-004	6.5200e-004
tblVehicleEF	MCY	0.92	0.90
tblVehicleEF	MCY	0.77	0.65

tblVehicleEF	MCY	0.73	0.68
tblVehicleEF	MCY	3.09	2.92
tblVehicleEF	MCY	0.64	0.44
tblVehicleEF	MCY	2.36	2.21
tblVehicleEF	MCY	0.44	0.49
tblVehicleEF	MCY	0.14	0.13
tblVehicleEF	MCY	21.43	17.88
tblVehicleEF	MCY	8.74	8.83
tblVehicleEF	MCY	179.11	184.39
tblVehicleEF	MCY	47.50	43.18
tblVehicleEF	MCY	6.3850e-003	5.6170e-003
tblVehicleEF	MCY	1.06	1.03
tblVehicleEF	MCY	0.29	0.29
tblVehicleEF	MCY	1.8640e-003	2.3580e-003
tblVehicleEF	MCY	4.2080e-003	3.2410e-003
tblVehicleEF	MCY	1.7510e-003	2.1990e-003
tblVehicleEF	MCY	3.9870e-003	3.0330e-003
tblVehicleEF	MCY	1.49	1.45
tblVehicleEF	MCY	0.85	0.75
tblVehicleEF	MCY	1.45	1.32
tblVehicleEF	MCY	2.44	2.27
tblVehicleEF	MCY	0.59	0.41
tblVehicleEF	MCY	1.88	1.78
tblVehicleEF	MCY	2.2110e-003	2.2050e-003
tblVehicleEF	MCY	6.7300e-004	6.2800e-004
tblVehicleEF	MCY	1.49	1.45
tblVehicleEF	MCY	0.85	0.75
tblVehicleEF	MCY	1.45	1.32
tblVehicleEF	MCY	2.97	2.85
tblVehicleEF	MCY	0.59	0.41

tblVehicleEF	MCY	2.04	1.94
tblVehicleEF	MCY	0.47	0.51
tblVehicleEF	MCY	0.17	0.16
tblVehicleEF	MCY	23.44	19.26
tblVehicleEF	MCY	10.11	10.39
tblVehicleEF	MCY	179.11	184.39
tblVehicleEF	MCY	47.50	43.18
tblVehicleEF	MCY	6.3850e-003	5.6170e-003
tblVehicleEF	MCY	1.19	1.16
tblVehicleEF	MCY	0.32	0.32
tblVehicleEF	MCY	1.8640e-003	2.3580e-003
tblVehicleEF	MCY	4.2080e-003	3.2410e-003
tblVehicleEF	MCY	1.7510e-003	2.1990e-003
tblVehicleEF	MCY	3.9870e-003	3.0330e-003
tblVehicleEF	MCY	0.83	0.82
tblVehicleEF	MCY	1.05	0.86
tblVehicleEF	MCY	0.57	0.54
tblVehicleEF	MCY	2.59	2.36
tblVehicleEF	MCY	0.75	0.54
tblVehicleEF	MCY	2.31	2.14
tblVehicleEF	MCY	2.2480e-003	2.2300e-003
tblVehicleEF	MCY	7.0900e-004	6.6400e-004
tblVehicleEF	MCY	0.83	0.82
tblVehicleEF	MCY	1.05	0.86
tblVehicleEF	MCY	0.57	0.54
tblVehicleEF	MCY	3.15	2.96
tblVehicleEF	MCY	0.75	0.54
tblVehicleEF	MCY	2.51	2.34
tblVehicleEF	MDV	0.01	4.6580e-003
tblVehicleEF	MDV	0.02	5.8510e-003

tblVehicleEF	MDV	1.56	0.59
tblVehicleEF	MDV	3.77	1.27
tblVehicleEF	MDV	548.12	376.19
tblVehicleEF	MDV	115.98	81.25
tblVehicleEF	MDV	0.12	0.10
tblVehicleEF	MDV	0.20	0.06
tblVehicleEF	MDV	0.36	0.09
tblVehicleEF	MDV	1.9390e-003	1.4540e-003
tblVehicleEF	MDV	2.5260e-003	2.0100e-003
tblVehicleEF	MDV	1.7910e-003	1.3390e-003
tblVehicleEF	MDV	2.3280e-003	1.8480e-003
tblVehicleEF	MDV	0.06	0.04
tblVehicleEF	MDV	0.18	0.11
tblVehicleEF	MDV	0.08	0.06
tblVehicleEF	MDV	0.05	0.01
tblVehicleEF	MDV	0.10	0.08
tblVehicleEF	MDV	0.30	0.08
tblVehicleEF	MDV	5.4940e-003	3.7610e-003
tblVehicleEF	MDV	1.2270e-003	8.3400e-004
tblVehicleEF	MDV	0.06	0.04
tblVehicleEF	MDV	0.18	0.11
tblVehicleEF	MDV	0.08	0.06
tblVehicleEF	MDV	0.06	0.02
tblVehicleEF	MDV	0.10	0.08
tblVehicleEF	MDV	0.33	0.09
tblVehicleEF	MDV	0.02	5.0110e-003
tblVehicleEF	MDV	0.02	5.1140e-003
tblVehicleEF	MDV	1.71	0.66
tblVehicleEF	MDV	3.13	1.07
tblVehicleEF	MDV	577.83	396.49

tblVehicleEF	MDV	115.98	81.25
tblVehicleEF	MDV	0.12	0.10
tblVehicleEF	MDV	0.18	0.05
tblVehicleEF	MDV	0.33	0.08
tblVehicleEF	MDV	1.9390e-003	1.4540e-003
tblVehicleEF	MDV	2.5260e-003	2.0100e-003
tblVehicleEF	MDV	1.7910e-003	1.3390e-003
tblVehicleEF	MDV	2.3280e-003	1.8480e-003
tblVehicleEF	MDV	0.09	0.07
tblVehicleEF	MDV	0.19	0.12
tblVehicleEF	MDV	0.13	0.10
tblVehicleEF	MDV	0.05	0.01
tblVehicleEF	MDV	0.09	0.07
tblVehicleEF	MDV	0.26	0.07
tblVehicleEF	MDV	5.7930e-003	3.9640e-003
tblVehicleEF	MDV	1.2160e-003	8.3000e-004
tblVehicleEF	MDV	0.09	0.07
tblVehicleEF	MDV	0.19	0.12
tblVehicleEF	MDV	0.13	0.10
tblVehicleEF	MDV	0.07	0.02
tblVehicleEF	MDV	0.09	0.07
tblVehicleEF	MDV	0.29	0.08
tblVehicleEF	MDV	0.01	4.5800e-003
tblVehicleEF	MDV	0.02	6.1530e-003
tblVehicleEF	MDV	1.55	0.57
tblVehicleEF	MDV	4.04	1.36
tblVehicleEF	MDV	542.75	372.51
tblVehicleEF	MDV	115.98	81.25
tblVehicleEF	MDV	0.12	0.10
tblVehicleEF	MDV	0.20	0.06

tblVehicleEF	MDV	0.38	0.10
tblVehicleEF	MDV	1.9390e-003	1.4540e-003
tblVehicleEF	MDV	2.5260e-003	2.0100e-003
tblVehicleEF	MDV	1.7910e-003	1.3390e-003
tblVehicleEF	MDV	2.3280e-003	1.8480e-003
tblVehicleEF	MDV	0.05	0.03
tblVehicleEF	MDV	0.20	0.12
tblVehicleEF	MDV	0.07	0.05
tblVehicleEF	MDV	0.05	0.01
tblVehicleEF	MDV	0.12	0.09
tblVehicleEF	MDV	0.32	0.08
tblVehicleEF	MDV	5.4400e-003	3.7240e-003
tblVehicleEF	MDV	1.2320e-003	8.3500e-004
tblVehicleEF	MDV	0.05	0.03
tblVehicleEF	MDV	0.20	0.12
tblVehicleEF	MDV	0.07	0.05
tblVehicleEF	MDV	0.06	0.02
tblVehicleEF	MDV	0.12	0.09
tblVehicleEF	MDV	0.35	0.09
tblVehicleEF	MH	0.07	0.01
tblVehicleEF	MH	0.04	0.02
tblVehicleEF	MH	6.00	0.61
tblVehicleEF	MH	8.93	3.92
tblVehicleEF	MH	1,253.64	1,198.32
tblVehicleEF	MH	67.72	57.67
tblVehicleEF	MH	1.4520e-003	7.8200e-004
tblVehicleEF	MH	1.97	0.99
tblVehicleEF	MH	1.08	0.69
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	0.04	0.02

tblVehicleEF	MH	2.3060e-003	8.5700e-004
tblVehicleEF	MH	3.2000e-003	3.2190e-003
tblVehicleEF	MH	0.03	0.02
tblVehicleEF	MH	2.1490e-003	7.8800e-004
tblVehicleEF	MH	1.33	0.59
tblVehicleEF	MH	0.11	0.05
tblVehicleEF	MH	0.67	0.34
tblVehicleEF	MH	0.24	0.05
tblVehicleEF	MH	0.03	0.02
tblVehicleEF	MH	0.58	0.24
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	8.3500e-004	6.4500e-004
tblVehicleEF	MH	1.33	0.59
tblVehicleEF	MH	0.11	0.05
tblVehicleEF	MH	0.67	0.34
tblVehicleEF	MH	0.32	0.06
tblVehicleEF	MH	0.03	0.02
tblVehicleEF	MH	0.63	0.26
tblVehicleEF	MH	0.07	0.01
tblVehicleEF	MH	0.04	0.02
tblVehicleEF	MH	6.06	0.62
tblVehicleEF	MH	8.39	3.67
tblVehicleEF	MH	1,253.64	1,198.32
tblVehicleEF	MH	67.72	57.67
tblVehicleEF	MH	1.4520e-003	7.8200e-004
tblVehicleEF	MH	1.85	0.94
tblVehicleEF	MH	1.03	0.65
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	0.04	0.02
tblVehicleEF	MH	2.3060e-003	8.5700e-004

tblVehicleEF	MH	3.2000e-003	3.2190e-003
tblVehicleEF	MH	0.03	0.02
tblVehicleEF	MH	2.1490e-003	7.8800e-004
tblVehicleEF	MH	1.85	0.81
tblVehicleEF	MH	0.11	0.05
tblVehicleEF	MH	1.20	0.59
tblVehicleEF	MH	0.24	0.05
tblVehicleEF	MH	0.03	0.02
tblVehicleEF	MH	0.55	0.23
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	8.2600e-004	6.4100e-004
tblVehicleEF	MH	1.85	0.81
tblVehicleEF	MH	0.11	0.05
tblVehicleEF	MH	1.20	0.59
tblVehicleEF	MH	0.32	0.06
tblVehicleEF	MH	0.03	0.02
tblVehicleEF	MH	0.60	0.25
tblVehicleEF	MH	0.06	0.01
tblVehicleEF	MH	0.04	0.02
tblVehicleEF	MH	6.01	0.60
tblVehicleEF	MH	9.21	4.04
tblVehicleEF	MH	1,253.64	1,198.32
tblVehicleEF	MH	67.72	57.67
tblVehicleEF	MH	1.4520e-003	7.8200e-004
tblVehicleEF	MH	1.97	0.98
tblVehicleEF	MH	1.11	0.70
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	0.04	0.02
tblVehicleEF	MH	2.3060e-003	8.5700e-004
tblVehicleEF	MH	3.2000e-003	3.2190e-003

tblVehicleEF	MH	0.03	0.02
tblVehicleEF	MH	2.1490e-003	7.8800e-004
tblVehicleEF	MH	1.40	0.58
tblVehicleEF	MH	0.15	0.06
tblVehicleEF	MH	0.63	0.31
tblVehicleEF	MH	0.24	0.05
tblVehicleEF	MH	0.03	0.02
tblVehicleEF	MH	0.59	0.24
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	8.4000e-004	6.4700e-004
tblVehicleEF	MH	1.40	0.58
tblVehicleEF	MH	0.15	0.06
tblVehicleEF	MH	0.63	0.31
tblVehicleEF	MH	0.32	0.06
tblVehicleEF	MH	0.03	0.02
tblVehicleEF	MH	0.65	0.27
tblVehicleEF	MHD	0.02	0.02
tblVehicleEF	MHD	0.02	2.6740e-003
tblVehicleEF	MHD	0.08	0.03
tblVehicleEF	MHD	0.51	0.32
tblVehicleEF	MHD	1.05	0.25
tblVehicleEF	MHD	9.02	3.30
tblVehicleEF	MHD	150.55	144.71
tblVehicleEF	MHD	1,222.82	1,170.27
tblVehicleEF	MHD	60.46	53.52
tblVehicleEF	MHD	0.01	0.02
tblVehicleEF	MHD	1.30	0.39
tblVehicleEF	MHD	3.46	1.07
tblVehicleEF	MHD	11.25	11.07
tblVehicleEF	MHD	5.7670e-003	6.5000e-005

tblVehicleEF	MHD	0.09	3.0310e-003
tblVehicleEF	MHD	1.3110e-003	7.4000e-004
tblVehicleEF	MHD	5.5170e-003	6.2000e-005
tblVehicleEF	MHD	0.09	2.8950e-003
tblVehicleEF	MHD	1.2120e-003	6.8100e-004
tblVehicleEF	MHD	1.3630e-003	5.2800e-004
tblVehicleEF	MHD	0.06	0.03
tblVehicleEF	MHD	0.04	0.02
tblVehicleEF	MHD	9.7000e-004	4.8100e-004
tblVehicleEF	MHD	0.23	0.04
tblVehicleEF	MHD	0.03	0.01
tblVehicleEF	MHD	0.55	0.21
tblVehicleEF	MHD	1.4480e-003	1.3910e-003
tblVehicleEF	MHD	0.01	0.01
tblVehicleEF	MHD	7.6300e-004	5.9300e-004
tblVehicleEF	MHD	1.3630e-003	5.2800e-004
tblVehicleEF	MHD	0.06	0.03
tblVehicleEF	MHD	0.05	0.03
tblVehicleEF	MHD	9.7000e-004	4.8100e-004
tblVehicleEF	MHD	0.27	0.05
tblVehicleEF	MHD	0.03	0.01
tblVehicleEF	MHD	0.60	0.23
tblVehicleEF	MHD	0.02	0.01
tblVehicleEF	MHD	0.02	2.6950e-003
tblVehicleEF	MHD	0.07	0.03
tblVehicleEF	MHD	0.37	0.23
tblVehicleEF	MHD	1.06	0.25
tblVehicleEF	MHD	8.49	3.10
tblVehicleEF	MHD	159.46	153.27
tblVehicleEF	MHD	1,222.82	1,170.27

tblVehicleEF	MHD	60.46	53.52
tblVehicleEF	MHD	0.01	0.02
tblVehicleEF	MHD	1.35	0.40
tblVehicleEF	MHD	3.33	1.03
tblVehicleEF	MHD	11.18	11.04
tblVehicleEF	MHD	4.8610e-003	5.4000e-005
tblVehicleEF	MHD	0.09	3.0310e-003
tblVehicleEF	MHD	1.3110e-003	7.4000e-004
tblVehicleEF	MHD	4.6510e-003	5.2000e-005
tblVehicleEF	MHD	0.09	2.8950e-003
tblVehicleEF	MHD	1.2120e-003	6.8100e-004
tblVehicleEF	MHD	2.0330e-003	7.7200e-004
tblVehicleEF	MHD	0.06	0.03
tblVehicleEF	MHD	0.04	0.02
tblVehicleEF	MHD	1.7680e-003	8.1000e-004
tblVehicleEF	MHD	0.23	0.04
tblVehicleEF	MHD	0.03	0.01
tblVehicleEF	MHD	0.52	0.20
tblVehicleEF	MHD	1.5320e-003	1.4720e-003
tblVehicleEF	MHD	0.01	0.01
tblVehicleEF	MHD	7.5400e-004	5.8900e-004
tblVehicleEF	MHD	2.0330e-003	7.7200e-004
tblVehicleEF	MHD	0.06	0.03
tblVehicleEF	MHD	0.05	0.03
tblVehicleEF	MHD	1.7680e-003	8.1000e-004
tblVehicleEF	MHD	0.27	0.05
tblVehicleEF	MHD	0.03	0.01
tblVehicleEF	MHD	0.57	0.22
tblVehicleEF	MHD	0.02	0.02
tblVehicleEF	MHD	0.02	2.6650e-003

tblVehicleEF	MHD	0.08	0.03
tblVehicleEF	MHD	0.70	0.44
tblVehicleEF	MHD	1.04	0.25
tblVehicleEF	MHD	9.27	3.38
tblVehicleEF	MHD	138.23	132.86
tblVehicleEF	MHD	1,222.82	1,170.27
tblVehicleEF	MHD	60.46	53.52
tblVehicleEF	MHD	0.01	0.02
tblVehicleEF	MHD	1.25	0.37
tblVehicleEF	MHD	3.44	1.07
tblVehicleEF	MHD	11.28	11.08
tblVehicleEF	MHD	7.0170e-003	7.9000e-005
tblVehicleEF	MHD	0.09	3.0310e-003
tblVehicleEF	MHD	1.3110e-003	7.4000e-004
tblVehicleEF	MHD	6.7130e-003	7.5000e-005
tblVehicleEF	MHD	0.09	2.8950e-003
tblVehicleEF	MHD	1.2120e-003	6.8100e-004
tblVehicleEF	MHD	1.3010e-003	4.5600e-004
tblVehicleEF	MHD	0.07	0.03
tblVehicleEF	MHD	0.04	0.02
tblVehicleEF	MHD	8.5400e-004	4.2200e-004
tblVehicleEF	MHD	0.23	0.04
tblVehicleEF	MHD	0.03	0.01
tblVehicleEF	MHD	0.56	0.21
tblVehicleEF	MHD	1.3320e-003	1.2800e-003
tblVehicleEF	MHD	0.01	0.01
tblVehicleEF	MHD	7.6700e-004	5.9400e-004
tblVehicleEF	MHD	1.3010e-003	4.5600e-004
tblVehicleEF	MHD	0.07	0.03
tblVehicleEF	MHD	0.06	0.03

tblVehicleEF	MHD	8.5400e-004	4.2200e-004
tblVehicleEF	MHD	0.27	0.05
tblVehicleEF	MHD	0.03	0.01
tblVehicleEF	MHD	0.61	0.23
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	0.02	5.0940e-003
tblVehicleEF	OBUS	0.04	0.02
tblVehicleEF	OBUS	0.30	0.25
tblVehicleEF	OBUS	1.25	0.35
tblVehicleEF	OBUS	7.81	4.36
tblVehicleEF	OBUS	105.94	108.02
tblVehicleEF	OBUS	1,361.93	1,302.23
tblVehicleEF	OBUS	71.14	67.38
tblVehicleEF	OBUS	1.8710e-003	1.9310e-003
tblVehicleEF	OBUS	0.71	0.23
tblVehicleEF	OBUS	2.56	0.78
tblVehicleEF	OBUS	2.67	2.08
tblVehicleEF	OBUS	4.2200e-004	2.2000e-005
tblVehicleEF	OBUS	0.01	2.7290e-003
tblVehicleEF	OBUS	9.5200e-004	1.0030e-003
tblVehicleEF	OBUS	4.0400e-004	2.1000e-005
tblVehicleEF	OBUS	0.01	2.5830e-003
tblVehicleEF	OBUS	8.7900e-004	9.2300e-004
tblVehicleEF	OBUS	1.5720e-003	1.1900e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.04	0.03
tblVehicleEF	OBUS	9.4800e-004	8.3000e-004
tblVehicleEF	OBUS	0.11	0.04
tblVehicleEF	OBUS	0.05	0.05
tblVehicleEF	OBUS	0.49	0.28

tblVehicleEF	OBUS	1.0230e-003	1.0420e-003
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	8.4900e-004	7.5000e-004
tblVehicleEF	OBUS	1.5720e-003	1.1900e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.06	0.05
tblVehicleEF	OBUS	9.4800e-004	8.3000e-004
tblVehicleEF	OBUS	0.14	0.05
tblVehicleEF	OBUS	0.05	0.05
tblVehicleEF	OBUS	0.54	0.30
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	0.02	5.1880e-003
tblVehicleEF	OBUS	0.04	0.02
tblVehicleEF	OBUS	0.28	0.24
tblVehicleEF	OBUS	1.27	0.35
tblVehicleEF	OBUS	7.32	4.08
tblVehicleEF	OBUS	111.21	113.45
tblVehicleEF	OBUS	1,361.93	1,302.23
tblVehicleEF	OBUS	71.14	67.38
tblVehicleEF	OBUS	1.8710e-003	1.9310e-003
tblVehicleEF	OBUS	0.73	0.24
tblVehicleEF	OBUS	2.45	0.75
tblVehicleEF	OBUS	2.60	2.05
tblVehicleEF	OBUS	3.5600e-004	1.8000e-005
tblVehicleEF	OBUS	0.01	2.7290e-003
tblVehicleEF	OBUS	9.5200e-004	1.0030e-003
tblVehicleEF	OBUS	3.4100e-004	1.8000e-005
tblVehicleEF	OBUS	0.01	2.5830e-003
tblVehicleEF	OBUS	8.7900e-004	9.2300e-004
tblVehicleEF	OBUS	2.2330e-003	1.6860e-003

tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.04	0.03
tblVehicleEF	OBUS	1.7520e-003	1.4630e-003
tblVehicleEF	OBUS	0.11	0.04
tblVehicleEF	OBUS	0.05	0.04
tblVehicleEF	OBUS	0.47	0.26
tblVehicleEF	OBUS	1.0730e-003	1.0940e-003
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	8.4000e-004	7.4500e-004
tblVehicleEF	OBUS	2.2330e-003	1.6860e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.06	0.05
tblVehicleEF	OBUS	1.7520e-003	1.4630e-003
tblVehicleEF	OBUS	0.14	0.05
tblVehicleEF	OBUS	0.05	0.04
tblVehicleEF	OBUS	0.51	0.29
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	0.02	5.0520e-003
tblVehicleEF	OBUS	0.04	0.02
tblVehicleEF	OBUS	0.32	0.26
tblVehicleEF	OBUS	1.24	0.35
tblVehicleEF	OBUS	8.04	4.49
tblVehicleEF	OBUS	98.66	100.51
tblVehicleEF	OBUS	1,361.93	1,302.23
tblVehicleEF	OBUS	71.14	67.38
tblVehicleEF	OBUS	1.8710e-003	1.9310e-003
tblVehicleEF	OBUS	0.68	0.22
tblVehicleEF	OBUS	2.55	0.78
tblVehicleEF	OBUS	2.70	2.10
tblVehicleEF	OBUS	5.1400e-004	2.7000e-005

tblVehicleEF	OBUS	0.01	2.7290e-003
tblVehicleEF	OBUS	9.5200e-004	1.0030e-003
tblVehicleEF	OBUS	4.9200e-004	2.5000e-005
tblVehicleEF	OBUS	0.01	2.5830e-003
tblVehicleEF	OBUS	8.7900e-004	9.2300e-004
tblVehicleEF	OBUS	1.5600e-003	1.0970e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.04	0.03
tblVehicleEF	OBUS	8.6400e-004	7.4200e-004
tblVehicleEF	OBUS	0.11	0.04
tblVehicleEF	OBUS	0.05	0.05
tblVehicleEF	OBUS	0.50	0.28
tblVehicleEF	OBUS	9.5400e-004	9.7100e-004
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	8.5300e-004	7.5200e-004
tblVehicleEF	OBUS	1.5600e-003	1.0970e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.06	0.05
tblVehicleEF	OBUS	8.6400e-004	7.4200e-004
tblVehicleEF	OBUS	0.14	0.05
tblVehicleEF	OBUS	0.05	0.05
tblVehicleEF	OBUS	0.55	0.31
tblVehicleEF	SBUS	0.89	0.82
tblVehicleEF	SBUS	0.02	7.0480e-003
tblVehicleEF	SBUS	0.11	0.05
tblVehicleEF	SBUS	5.85	7.42
tblVehicleEF	SBUS	1.45	0.46
tblVehicleEF	SBUS	8.34	5.72
tblVehicleEF	SBUS	1,274.71	1,099.15
tblVehicleEF	SBUS	1,148.50	1,053.04

tblVehicleEF	SBUS	36.45	50.65
tblVehicleEF	SBUS	7.3900e-004	7.8500e-004
tblVehicleEF	SBUS	13.83	5.06
tblVehicleEF	SBUS	6.13	1.88
tblVehicleEF	SBUS	15.44	12.52
tblVehicleEF	SBUS	0.02	2.5410e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.04	9.2940e-003
tblVehicleEF	SBUS	8.0300e-004	9.8600e-004
tblVehicleEF	SBUS	0.02	2.4310e-003
tblVehicleEF	SBUS	2.7560e-003	2.6620e-003
tblVehicleEF	SBUS	0.03	8.8740e-003
tblVehicleEF	SBUS	7.3800e-004	9.0600e-004
tblVehicleEF	SBUS	3.4660e-003	2.4990e-003
tblVehicleEF	SBUS	0.04	0.03
tblVehicleEF	SBUS	0.71	0.88
tblVehicleEF	SBUS	1.8160e-003	1.8440e-003
tblVehicleEF	SBUS	0.16	0.07
tblVehicleEF	SBUS	0.02	0.01
tblVehicleEF	SBUS	0.43	0.30
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	5.0900e-004	6.0500e-004
tblVehicleEF	SBUS	3.4660e-003	2.4990e-003
tblVehicleEF	SBUS	0.04	0.03
tblVehicleEF	SBUS	1.01	1.28
tblVehicleEF	SBUS	1.8160e-003	1.8440e-003
tblVehicleEF	SBUS	0.19	0.08
tblVehicleEF	SBUS	0.02	0.01
tblVehicleEF	SBUS	0.47	0.33

tblVehicleEF	SBUS	0.89	0.82
tblVehicleEF	SBUS	0.03	7.1730e-003
tblVehicleEF	SBUS	0.10	0.05
tblVehicleEF	SBUS	5.67	7.35
tblVehicleEF	SBUS	1.48	0.47
tblVehicleEF	SBUS	6.52	4.47
tblVehicleEF	SBUS	1,339.77	1,149.62
tblVehicleEF	SBUS	1,148.50	1,053.04
tblVehicleEF	SBUS	36.45	50.65
tblVehicleEF	SBUS	7.3900e-004	7.8500e-004
tblVehicleEF	SBUS	14.27	5.22
tblVehicleEF	SBUS	5.90	1.81
tblVehicleEF	SBUS	15.40	12.49
tblVehicleEF	SBUS	0.02	2.1420e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.04	9.2940e-003
tblVehicleEF	SBUS	8.0300e-004	9.8600e-004
tblVehicleEF	SBUS	0.01	2.0490e-003
tblVehicleEF	SBUS	2.7560e-003	2.6620e-003
tblVehicleEF	SBUS	0.03	8.8740e-003
tblVehicleEF	SBUS	7.3800e-004	9.0600e-004
tblVehicleEF	SBUS	4.8420e-003	3.5400e-003
tblVehicleEF	SBUS	0.04	0.03
tblVehicleEF	SBUS	0.71	0.88
tblVehicleEF	SBUS	3.3040e-003	3.2210e-003
tblVehicleEF	SBUS	0.16	0.07
tblVehicleEF	SBUS	0.02	0.01
tblVehicleEF	SBUS	0.38	0.27
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.01	0.01

tblVehicleEF	SBUS	4.7900e-004	5.8400e-004
tblVehicleEF	SBUS	4.8420e-003	3.5400e-003
tblVehicleEF	SBUS	0.04	0.03
tblVehicleEF	SBUS	1.01	1.27
tblVehicleEF	SBUS	3.3040e-003	3.2210e-003
tblVehicleEF	SBUS	0.19	0.08
tblVehicleEF	SBUS	0.02	0.01
tblVehicleEF	SBUS	0.41	0.29
tblVehicleEF	SBUS	0.89	0.82
tblVehicleEF	SBUS	0.02	6.9890e-003
tblVehicleEF	SBUS	0.12	0.06
tblVehicleEF	SBUS	6.09	7.52
tblVehicleEF	SBUS	1.43	0.46
tblVehicleEF	SBUS	9.24	6.34
tblVehicleEF	SBUS	1,184.88	1,029.47
tblVehicleEF	SBUS	1,148.50	1,053.04
tblVehicleEF	SBUS	36.45	50.65
tblVehicleEF	SBUS	7.3900e-004	7.8500e-004
tblVehicleEF	SBUS	13.22	4.84
tblVehicleEF	SBUS	6.11	1.87
tblVehicleEF	SBUS	15.46	12.53
tblVehicleEF	SBUS	0.02	3.0920e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.04	9.2940e-003
tblVehicleEF	SBUS	8.0300e-004	9.8600e-004
tblVehicleEF	SBUS	0.02	2.9580e-003
tblVehicleEF	SBUS	2.7560e-003	2.6620e-003
tblVehicleEF	SBUS	0.03	8.8740e-003
tblVehicleEF	SBUS	7.3800e-004	9.0600e-004
tblVehicleEF	SBUS	3.5910e-003	2.2380e-003

tblVehicleEF	SBUS	0.04	0.03
tblVehicleEF	SBUS	0.72	0.88
tblVehicleEF	SBUS	1.6760e-003	1.6430e-003
tblVehicleEF	SBUS	0.15	0.07
tblVehicleEF	SBUS	0.03	0.02
tblVehicleEF	SBUS	0.46	0.32
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	5.2400e-004	6.1600e-004
tblVehicleEF	SBUS	3.5910e-003	2.2380e-003
tblVehicleEF	SBUS	0.04	0.03
tblVehicleEF	SBUS	1.02	1.28
tblVehicleEF	SBUS	1.6760e-003	1.6430e-003
tblVehicleEF	SBUS	0.19	0.08
tblVehicleEF	SBUS	0.03	0.02
tblVehicleEF	SBUS	0.51	0.36
tblVehicleEF	UBUS	2.20	1.20
tblVehicleEF	UBUS	0.04	0.05
tblVehicleEF	UBUS	9.53	5.40
tblVehicleEF	UBUS	6.69	7.56
tblVehicleEF	UBUS	2,033.84	1,788.82
tblVehicleEF	UBUS	97.00	134.15
tblVehicleEF	UBUS	2.1730e-003	1.6770e-003
tblVehicleEF	UBUS	10.95	2.90
tblVehicleEF	UBUS	15.32	12.64
tblVehicleEF	UBUS	0.62	0.52
tblVehicleEF	UBUS	0.17	0.04
tblVehicleEF	UBUS	6.9000e-004	1.3850e-003
tblVehicleEF	UBUS	0.27	0.22
tblVehicleEF	UBUS	0.16	0.04

tblVehicleEF	UBUS	6.3600e-004	1.2740e-003
tblVehicleEF	UBUS	1.9320e-003	2.5410e-003
tblVehicleEF	UBUS	0.04	0.05
tblVehicleEF	UBUS	1.7610e-003	2.7110e-003
tblVehicleEF	UBUS	0.80	0.22
tblVehicleEF	UBUS	7.3340e-003	0.01
tblVehicleEF	UBUS	0.57	0.70
tblVehicleEF	UBUS	0.01	9.0140e-003
tblVehicleEF	UBUS	1.0920e-003	1.4810e-003
tblVehicleEF	UBUS	1.9320e-003	2.5410e-003
tblVehicleEF	UBUS	0.04	0.05
tblVehicleEF	UBUS	1.7610e-003	2.7110e-003
tblVehicleEF	UBUS	3.10	1.45
tblVehicleEF	UBUS	7.3340e-003	0.01
tblVehicleEF	UBUS	0.62	0.76
tblVehicleEF	UBUS	2.20	1.20
tblVehicleEF	UBUS	0.04	0.05
tblVehicleEF	UBUS	9.54	5.41
tblVehicleEF	UBUS	5.71	6.48
tblVehicleEF	UBUS	2,033.84	1,788.82
tblVehicleEF	UBUS	97.00	134.15
tblVehicleEF	UBUS	2.1730e-003	1.6770e-003
tblVehicleEF	UBUS	10.56	2.79
tblVehicleEF	UBUS	15.27	12.58
tblVehicleEF	UBUS	0.62	0.52
tblVehicleEF	UBUS	0.17	0.04
tblVehicleEF	UBUS	6.9000e-004	1.3850e-003
tblVehicleEF	UBUS	0.27	0.22
tblVehicleEF	UBUS	0.16	0.04
tblVehicleEF	UBUS	6.3600e-004	1.2740e-003

tblVehicleEF	UBUS	2.3820e-003	3.1280e-003
tblVehicleEF	UBUS	0.04	0.05
tblVehicleEF	UBUS	3.2070e-003	4.7920e-003
tblVehicleEF	UBUS	0.81	0.22
tblVehicleEF	UBUS	6.6000e-003	0.01
tblVehicleEF	UBUS	0.52	0.64
tblVehicleEF	UBUS	0.01	9.0140e-003
tblVehicleEF	UBUS	1.0750e-003	1.4620e-003
tblVehicleEF	UBUS	2.3820e-003	3.1280e-003
tblVehicleEF	UBUS	0.04	0.05
tblVehicleEF	UBUS	3.2070e-003	4.7920e-003
tblVehicleEF	UBUS	3.10	1.45
tblVehicleEF	UBUS	6.6000e-003	0.01
tblVehicleEF	UBUS	0.57	0.70
tblVehicleEF	UBUS	2.20	1.20
tblVehicleEF	UBUS	0.04	0.05
tblVehicleEF	UBUS	9.52	5.40
tblVehicleEF	UBUS	7.13	8.05
tblVehicleEF	UBUS	2,033.84	1,788.82
tblVehicleEF	UBUS	97.00	134.15
tblVehicleEF	UBUS	2.1730e-003	1.6770e-003
tblVehicleEF	UBUS	10.89	2.88
tblVehicleEF	UBUS	15.34	12.67
tblVehicleEF	UBUS	0.62	0.52
tblVehicleEF	UBUS	0.17	0.04
tblVehicleEF	UBUS	6.9000e-004	1.3850e-003
tblVehicleEF	UBUS	0.27	0.22
tblVehicleEF	UBUS	0.16	0.04
tblVehicleEF	UBUS	6.3600e-004	1.2740e-003
tblVehicleEF	UBUS	1.8430e-003	2.2650e-003

tblVehicleEF	UBUS	0.05	0.05
tblVehicleEF	UBUS	1.6130e-003	2.4240e-003
tblVehicleEF	UBUS	0.80	0.22
tblVehicleEF	UBUS	9.1130e-003	0.02
tblVehicleEF	UBUS	0.59	0.73
tblVehicleEF	UBUS	0.01	9.0140e-003
tblVehicleEF	UBUS	1.1000e-003	1.4890e-003
tblVehicleEF	UBUS	1.8430e-003	2.2650e-003
tblVehicleEF	UBUS	0.05	0.05
tblVehicleEF	UBUS	1.6130e-003	2.4240e-003
tblVehicleEF	UBUS	3.10	1.45
tblVehicleEF	UBUS	9.1130e-003	0.02
tblVehicleEF	UBUS	0.65	0.80
tblVehicleTrips	ST_TR	22.75	5.00
tblVehicleTrips	ST_TR	5.67	5.70
tblVehicleTrips	ST_TR	42.04	36.00
tblVehicleTrips	SU_TR	16.74	5.00
tblVehicleTrips	SU_TR	4.84	5.70
tblVehicleTrips	SU_TR	20.43	36.00
tblVehicleTrips	WD_TR	1.89	5.00
tblVehicleTrips	WD_TR	5.81	5.70
tblVehicleTrips	WD_TR	6.97	14.25
tblVehicleTrips	WD_TR	11.42	15.20
tblVehicleTrips	WD_TR	44.32	36.00
tblWoodstoves	NumberCatalytic	165.50	0.00
tblWoodstoves	NumberNoncatalytic	165.50	0.00

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2028	0.0000	0.0000	0.0000	0.0000	0.0000	4.2568	0.0000	0.0000	3.9401	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Maximum	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**4.2568**	**0.0000**	**0.0000**	**3.9401**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2028	0.0000	0.0000	0.0000	0.0000	0.0000	4.2568	0.0000	0.0000	3.9401	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Maximum	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**4.2568**	**0.0000**	**0.0000**	**3.9401**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

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

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	106.0436	58.0996	298.4351	0.3649		5.9405	5.9405		5.9405	5.9405	0.0000	70,585.9527	70,585.9527	1.8311	1.2851	71,014.6781
Energy	1.9451	16.7705	8.1658	0.1061		1.3439	1.3439		1.3439	1.3439		21,218.8697	21,218.8697	0.4067	0.3890	21,344.9628
Mobile	57.1241	241.8607	678.6272	2.7334	186.1778	1.7968	187.9746	52.5420	1.6694	54.2114		280,090.8094	280,090.8094	13.7790		280,435.2852
Total	**165.1128**	**316.7308**	**985.2281**	**3.2044**	**186.1778**	**9.0811**	**195.2589**	**52.5420**	**8.9538**	**61.4957**	**0.0000**	**371,895.6318**	**371,895.6318**	**16.0168**	**1.6741**	**372,794.9261**

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	106.0436	58.0996	298.4351	0.3649		5.9405	5.9405		5.9405	5.9405	0.0000	70,585.9527	70,585.9527	1.8311	1.2851	71,014.6781
Energy	1.8031	15.5485	7.5867	0.0984		1.2458	1.2458		1.2458	1.2458		19,669.8275	19,669.8275	0.3770	0.3606	19,786.7154
Mobile	54.3615	229.4928	621.5172	2.4534	165.8845	1.6259	167.5104	46.8149	1.5105	48.3254		251,451.3878	251,451.3878	12.5457		251,765.0307
Total	**162.2082**	**303.1409**	**927.5390**	**2.9167**	**165.8845**	**8.8122**	**174.6966**	**46.8149**	**8.6968**	**55.5117**	**0.0000**	**341,707.1679**	**341,707.1679**	**14.7538**	**1.6457**	**342,566.4242**

	ROG	NOx	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	**1.76**	**4.29**	**5.86**	**8.98**	**10.90**	**2.96**	**10.53**	**10.90**	**2.87**	**9.73**	**0.00**	**8.12**	**8.12**	**7.89**	**1.70**	**8.11**

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description

1	Architectural Coating	Architectural Coating	4/6/2028	4/5/2028	5	330	
2	Building Construction	Building Construction	4/6/2028	4/5/2028	5	4650	
3	Demolition	Demolition	4/6/2028	4/5/2028	5	300	
4	Grading	Grading	4/6/2028	4/5/2028	5	465	
5	Paving	Paving	4/6/2028	4/5/2028	5	330	
6	Site Preparation	Site Preparation	4/6/2028	4/5/2028	5	180	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 1162.5

Acres of Paving: 0

Residential Indoor: 6,702,750; Residential Outdoor: 2,234,250; Non-Residential Indoor: 861,000; Non-Residential Outdoor: 287,000;

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	1	6.00	78	0.48
Demolition	Excavators	3	8.00	158	0.38
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Grading	Excavators	2	8.00	158	0.38
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Paving	Pavers	2	8.00	130	0.42
Paving	Rollers	2	8.00	80	0.38
Demolition	Rubber Tired Dozers	2	8.00	247	0.40
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Grading	Graders	1	8.00	187	0.41
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Paving	Paving Equipment	2	8.00	132	0.36
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37

Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Grading	Scrapers	2	8.00	367	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
Architectural Coating	1	544.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	2,718.00	491.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Demolition	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Architectural Coating - 2028

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated Construction Off-Site

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

Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

3.3 Building Construction - 2028

Unmitigated Construction On-Site

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

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated Construction On-Site

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

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

3.4 Demolition - 2028

Unmitigated Construction On-Site

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

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated Construction On-Site

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

Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

3.5 Grading - 2028

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated Construction Off-Site

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

Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

3.6 Paving - 2028

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Paving	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Paving	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

3.7 Site Preparation - 2028

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated Construction On-Site

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

Off-Road	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Increase Density

Increase Diversity

Increase Transit Accessibility

Improve Pedestrian Network

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	54.3615	229.4928	621.5172	2.4534	165.8845	1.6259	167.5104	46.8149	1.5105	48.3254		251,451.3878	251,451.3878	12.5457		251,765.0307
Unmitigated	57.1241	241.8607	678.6272	2.7334	186.1778	1.7968	187.9746	52.5420	1.6694	54.2114		280,090.8094	280,090.8094	13.7790		280,435.2852

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
City Park	29.90	29.90	29.90	63,832	56,874
Condo/Townhouse	3,334.50	3,334.50	3334.50	9,521,009	8,483,219
Condo/Townhouse	15,532.50	15,532.50	15532.50	44,349,999	39,515,850
General Light Industry	2,351.25	217.80	112.20	5,040,849	4,491,396
General Light Industry	3,562.50	330.00	170.00	7,637,650	6,805,146
Office Park	2,052.00	221.40	102.60	3,789,446	3,376,396
Strip Mall	864.00	864.00	864.00	1,330,589	1,185,554
Total	27,726.65	20,530.10	20,145.70	71,733,374	63,914,436

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
Condo/Townhouse	10.80	7.30	7.50	41.60	18.80	39.60	86	11	3
General Light Industry	9.50	7.30	7.30	59.00	28.00	13.00	92	5	3
General Light Industry	9.50	7.30	7.30	59.00	28.00	13.00	92	5	3
Office Park	9.50	7.30	7.30	33.00	48.00	19.00	82	15	3
Strip Mall	9.50	7.30	7.30	16.60	64.40	19.00	45	40	15

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Office Park	0.616428	0.037185	0.177402	0.097684	0.012090	0.005279	0.017663	0.025476	0.001931	0.001677	0.005617	0.000785	0.000782
General Light Industry	0.616428	0.037185	0.177402	0.097684	0.012090	0.005279	0.017663	0.025476	0.001931	0.001677	0.005617	0.000785	0.000782
General Light Industry	0.616428	0.037185	0.177402	0.097684	0.012090	0.005279	0.017663	0.025476	0.001931	0.001677	0.005617	0.000785	0.000782

City Park	0.616428	0.037185	0.177402	0.097684	0.012090	0.005279	0.017663	0.025476	0.001931	0.001677	0.005617	0.000785	0.000782
Condo/Townhouse	0.616428	0.037185	0.177402	0.097684	0.012090	0.005279	0.017663	0.025476	0.001931	0.001677	0.005617	0.000785	0.000782
Condo/Townhouse	0.616428	0.037185	0.177402	0.097684	0.012090	0.005279	0.017663	0.025476	0.001931	0.001677	0.005617	0.000785	0.000782
Strip Mall	0.616428	0.037185	0.177402	0.097684	0.012090	0.005279	0.017663	0.025476	0.001931	0.001677	0.005617	0.000785	0.000782

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Exceed Title 24

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	1.8031	15.5485	7.5867	0.0984		1.2458	1.2458		1.2458	1.2458		19,669.8275	19,669.8275	0.3770	0.3606	19,786.7154
NaturalGas Unmitigated	1.9451	16.7705	8.1658	0.1061		1.3439	1.3439		1.3439	1.3439		21,218.8697	21,218.8697	0.4067	0.3890	21,344.9628

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					
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	127627	1.3764	11.7617	5.0050	0.0751		0.9510	0.9510		0.9510	0.9510		15,014.9564	15,014.9564	0.2878	0.2753	15,104.1828
Condo/Townhouse	27398.9	0.2955	2.5250	1.0745	0.0161		0.2042	0.2042		0.2042	0.2042		3,223.3943	3,223.3943	0.0618	0.0591	3,242.5493
General Light Industry	5239.32	0.0565	0.5137	0.4315	3.0800e-003		0.0390	0.0390		0.0390	0.0390		616.3900	616.3900	0.0118	0.0113	620.0529
General Light Industry	7938.36	0.0856	0.7783	0.6538	4.6700e-003		0.0592	0.0592		0.0592	0.0592		933.9243	933.9243	0.0179	0.0171	939.4741
Office Park	12009.5	0.1295	1.1774	0.9890	7.0600e-003		0.0895	0.0895		0.0895	0.0895		1,412.8767	1,412.8767	0.0271	0.0259	1,421.2727
Strip Mall	147.288	1.5900e-003	0.0144	0.0121	9.0000e-005		1.1000e-003	1.1000e-003		1.1000e-003	1.1000e-003		17.3280	17.3280	3.3000e-004	3.2000e-004	17.4309
Total		**1.9451**	**16.7705**	**8.1658**	**0.1061**		**1.3439**	**1.3439**		**1.3439**	**1.3439**		**21,218.8697**	**21,218.8697**	**0.4067**	**0.3890**	**21,344.9628**

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					
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	117.985	1.2724	10.8731	4.6269	0.0694		0.8791	0.8791		0.8791	0.8791		13,880.6002	13,880.6002	0.2660	0.2545	13,963.0856
Condo/Townhouse	25.3289	0.2732	2.3342	0.9933	0.0149		0.1887	0.1887		0.1887	0.1887		2,979.8720	2,979.8720	0.0571	0.0546	2,997.5799
General Light Industry	5.04312	0.0544	0.4944	0.4153	2.9700e-003		0.0376	0.0376		0.0376	0.0376		593.3086	593.3086	0.0114	0.0109	596.8344
General Light Industry	7.6411	0.0824	0.7491	0.6293	4.4900e-003		0.0569	0.0569		0.0569	0.0569		898.9525	898.9525	0.0172	0.0165	904.2945
Office Park	11.0556	0.1192	1.0839	0.9105	6.5000e-003		0.0824	0.0824		0.0824	0.0824		1,300.6559	1,300.6559	0.0249	0.0239	1,308.3851
Strip Mall	0.139726	1.5100e-003	0.0137	0.0115	8.0000e-005		1.0400e-003	1.0400e-003		1.0400e-003	1.0400e-003		16.4384	16.4384	3.2000e-004	3.0000e-004	16.5360
Total		**1.8031**	**15.5485**	**7.5867**	**0.0983**		**1.2458**	**1.2458**		**1.2458**	**1.2458**		**19,669.8275**	**19,669.8275**	**0.3770**	**0.3606**	**19,786.7154**

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	106.0436	58.0996	298.4351	0.3649		5.9405	5.9405		5.9405	5.9405	0.0000	70,585.9527	70,585.9527	1.8311	1.2851	71,014.6781
Unmitigated	106.0436	58.0996	298.4351	0.3649		5.9405	5.9405		5.9405	5.9405	0.0000	70,585.9527	70,585.9527	1.8311	1.2851	71,014.6781

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	8.0041					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	83.1310					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	6.4253	54.9071	23.3647	0.3505		4.4393	4.4393		4.4393	4.4393	0.0000	70,094.1177	70,094.1177	1.3435	1.2851	70,510.6519
Landscaping	8.4832	3.1925	275.0704	0.0144		1.5012	1.5012		1.5012	1.5012		491.8350	491.8350	0.4876		504.0261
Total	**106.0436**	**58.0996**	**298.4351**	**0.3649**		**5.9405**	**5.9405**		**5.9405**	**5.9405**	**0.0000**	**70,585.9527**	**70,585.9527**	**1.8311**	**1.2851**	**71,014.6781**

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	8.0041					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	83.1310					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	6.4253	54.9071	23.3647	0.3505		4.4393	4.4393		4.4393	4.4393	0.0000	70,094.1177	70,094.1177	1.3435	1.2851	70,510.6519
Landscaping	8.4832	3.1925	275.0704	0.0144		1.5012	1.5012		1.5012	1.5012		491.8350	491.8350	0.4876		504.0261
Total	**106.0436**	**58.0996**	**298.4351**	**0.3649**		**5.9405**	**5.9405**		**5.9405**	**5.9405**	**0.0000**	**70,585.9527**	**70,585.9527**	**1.8311**	**1.2851**	**71,014.6781**

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 Stationary Equipment

Fire Pumps and Emergency Generators

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

Boilers

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

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

Stone Creek Operations

San Diego Air Basin, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Office Park	135.00	1000sqft	3.10	135,000.00	0
Office Park	200.00	1000sqft	4.59	200,000.00	0
General Light Industry	165.00	1000sqft	3.79	165,000.00	0
General Light Industry	250.00	1000sqft	5.74	250,000.00	0
General Light Industry	300.00	1000sqft	6.89	300,000.00	0
City Park	5.98	Acre	5.98	260,488.80	0
City Park	30.21	Acre	30.21	1,315,947.60	0
Hotel	175.00	Room	5.83	254,100.00	0
Condo/Townhouse	585.00	Dwelling Unit	36.56	585,000.00	1673
Condo/Townhouse	2,725.00	Dwelling Unit	170.31	2,725,000.00	7794
Condo/Townhouse	835.00	Dwelling Unit	52.19	835,000.00	2388
Condo/Townhouse	300.00	Dwelling Unit	18.75	300,000.00	858
Strip Mall	24.00	1000sqft	0.55	24,000.00	0
Strip Mall	150.00	1000sqft	3.44	150,000.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.6	**Precipitation Freq (Days)**	40
Climate Zone	13			**Operational Year**	2040
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

Vehicle Emission Factors -

Vehicle Emission Factors -

Vehicle Emission Factors -

Road Dust - USEPA ubiquitous baseline

Woodstoves - 50% natural gas fireplaces

Area Coating - Rule 67.0.1 coatings

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Parking	250.00	0.00
tblAreaCoating	Area_EF_Nonresidential_Exterior	250	100
tblAreaCoating	Area_EF_Nonresidential_Interior	250	50
tblAreaCoating	Area_EF_Residential_Exterior	250	100
tblAreaCoating	Area_EF_Residential_Interior	250	50
tblConstructionPhase	NumDays	440.00	0.00
tblConstructionPhase	NumDays	6,200.00	0.00
tblConstructionPhase	NumDays	400.00	0.00
tblConstructionPhase	NumDays	620.00	0.00
tblConstructionPhase	NumDays	440.00	0.00
tblConstructionPhase	NumDays	240.00	0.00
tblFireplaces	NumberGas	2,444.75	2,223.00
tblFireplaces	NumberNoFireplace	444.50	2,222.00
tblFireplaces	NumberWood	1,555.75	0.00
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	OperationalYear	2018	2040
tblRoadDust	RoadSiltLoading	0.1	0.03
tblTripsAndVMT	WorkerTripNumber	850.00	0.00
tblTripsAndVMT	WorkerTripNumber	4,250.00	0.00
tblTripsAndVMT	WorkerTripNumber	18.00	10.00
tblTripsAndVMT	WorkerTripNumber	23.00	10.00
tblTripsAndVMT	WorkerTripNumber	23.00	18.00
tblTripsAndVMT	WorkerTripNumber	13.00	5.00
tblVehicleTrips	ST_TR	22.75	5.00
tblVehicleTrips	ST_TR	5.67	5.43
tblVehicleTrips	ST_TR	8.19	8.00
tblVehicleTrips	ST_TR	42.04	38.97
tblVehicleTrips	SU_TR	16.74	5.00
tblVehicleTrips	SU_TR	4.84	5.43
tblVehicleTrips	SU_TR	5.95	8.00
tblVehicleTrips	SU_TR	20.43	38.97
tblVehicleTrips	WD_TR	1.89	5.00
tblVehicleTrips	WD_TR	5.81	5.43
tblVehicleTrips	WD_TR	6.97	14.64
tblVehicleTrips	WD_TR	8.17	8.00
tblVehicleTrips	WD_TR	11.42	14.00
tblVehicleTrips	WD_TR	44.32	38.97
tblWoodstoves	NumberCatalytic	222.25	0.00

tblWoodstoves	NumberNoncatalytic	222.25	0.00

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2038	0.0000	0.0000	0.0000	0.0000	0.0000	0.9434	0.0000	0.0000	0.9405	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Maximum	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.9434**	**0.0000**	**0.0000**	**0.9405**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2038	0.0000	0.0000	0.0000	0.0000	0.0000	0.9434	0.0000	0.0000	0.9405	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Maximum	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.9434**	**0.0000**	**0.0000**	**0.9405**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

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

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	166.8788	151.7182	428.0188	0.9609		13.9599	13.9599		13.9599	13.9599	0.0000	188,961.8034	188,961.8034	4.2384	3.4522	190,096.5160
Energy	3.2629	28.4381	15.9362	0.1780		2.2544	2.2544		2.2544	2.2544		35,595.2234	35,595.2234	0.6822	0.6526	35,806.7480
Mobile	129.9962	629.7406	1588.745	7.4181	202.0291	2.9851	205.0141	68.7305	2.7785	71.509		762,710.6581	762,710.6581	35.0415		763,586.6951
Total	**300.1379**	**809.8969**	**2,032.70**	**8.557**	**202.0291**	**19.1994**	**221.2284**	**68.7305**	**18.9928**	**87.7233**	**0.0000**	**987,267.6848**	**987,267.6848**	**39.9621**	**4.1048**	**989,489.9591**

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	166.8788	151.7182	428.0188	0.9609		13.9599	13.9599		13.9599	13.9599	0.0000	188,961.8034	188,961.8034	4.2384	3.4522	190,096.5160
Energy	3.0223	26.3436	14.7775	0.1649		2.0882	2.0882		2.0882	2.0882		32,970.8121	32,970.8121	0.6319	0.6045	33,166.7411
Mobile	122.9923	603.3381	1,446.11	6.6665	180.0079	2.6996	182.7075	61.2389	2.5125	63.7514		685,695.0745	685,695.0745	31.8308		686,490.8456
Total	**292.8934**	**781.3999**	**1,888.90**	**7.7923**	**180.0079**	**18.7477**	**198.7556**	**61.2389**	**18.5606**	**79.7995**	**0.0000**	**907,627.6899**	**907,627.6899**	**36.7012**	**4.0567**	**909,754.1027**

	ROG	NOx	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	**2.41**	**3.52**	**7.07**	**8.94**	**10.90**	**2.35**	**10.16**	**10.90**	**2.28**	**9.03**	**0.00**	**8.07**	**8.07**	**8.16**	**1.17**	**8.06**

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Architectural Coating	Architectural Coating	4/6/2038	4/5/2038	5	0	
2	Building Construction	Building Construction	4/6/2038	4/5/2038	5	0	
3	Demolition	Demolition	4/6/2038	4/5/2038	5	0	
4	Grading	Grading	4/6/2038	4/5/2038	5	0	
5	Paving	Paving	4/6/2038	4/5/2038	5	0	
6	Site Preparation	Site Preparation	4/6/2038	4/5/2038	5	0	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

Residential Indoor: 9,001,125; Residential Outdoor: 3,000,375; Non-Residential Indoor: 2,217,150; Non-Residential Outdoor: 739,050;

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	231	0.29
Building Construction	Forklifts	2	6.00	89	0.20
Site Preparation	Graders	1	8.00	187	0.41
Paving	Pavers	1	7.00	130	0.42
Paving	Rollers	1	7.00	80	0.38
Demolition	Rubber Tired Dozers	1	1.00	247	0.40
Grading	Rubber Tired Dozers	1	1.00	247	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	158	0.38
Grading	Excavators	2	8.00	158	0.38
Building Construction	Generator Sets	1	8.00	84	0.74
Grading	Graders	1	8.00	187	0.41
Paving	Paving Equipment	2	8.00	132	0.36
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Grading	Scrapers	2	8.00	367	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
Architectural Coating	1	0.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	7	0.00	904.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Demolition	7	10.00	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
Paving	9	18.00	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

3.1 Mitigation Measures Construction

3.2 Architectural Coating - 2038

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated Construction On-Site

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

Off-Road	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

3.3 Building Construction - 2038

Unmitigated Construction On-Site

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

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated Construction On-Site

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

Mitigated Construction Off-Site

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

Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

3.4 Demolition - 2038

Unmitigated Construction On-Site

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

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated Construction On-Site

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

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

3.5 Grading - 2038

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated Construction On-Site

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

Off-Road	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

3.6 Paving - 2038

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Paving	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Paving	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated Construction Off-Site

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

Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

3.7 Site Preparation - 2038

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Increase Density

Increase Diversity

Increase Transit Accessibility

Improve Pedestrian Network

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	122.9923	603.3381	1,446.11	6.6665	180.0079	2.6996	182.7075	61.2389	2.5125	63.7514		685,695.0745	685,695.0745	31.8308		686,490.8456
Unmitigated	129.9962	629.7406	1588.745	7.4181	202.0291	2.9851	205.0141	68.7305	2.7785	71.509		762,710.6581	762,710.6581	35.0415		763,586.6951

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
City Park	29.90	29.90	29.90	63,832	56,874
City Park	151.10	151.10	151.10	322,576	287,415
Condo/Townhouse	3,176.55	3,176.55	3176.55	9,070,014	8,081,382
Condo/Townhouse	14,796.75	14,796.75	14796.75	42,249,210	37,644,046
Condo/Townhouse	4,534.05	4,534.05	4534.05	12,946,088	11,534,965
Condo/Townhouse	1,629.00	1,629.00	1629.00	4,651,289	4,144,299
General Light Industry	2,415.60	217.80	112.20	5,175,042	4,610,962
General Light Industry	3,660.00	330.00	170.00	7,840,973	6,986,307
General Light Industry	4,392.00	396.00	204.00	9,409,167	8,383,568
Hotel	1,400.00	1,400.00	1400.00	2,659,903	2,369,974
Office Park	1,890.00	221.40	102.60	3,499,437	3,117,999
Office Park	2,800.00	328.00	152.00	5,184,352	4,619,257
Strip Mall	935.28	935.28	935.28	1,440,362	1,283,363
Strip Mall	5,845.50	5,845.50	5845.50	9,002,263	8,021,016
Total	47,655.73	33,991.33	33,238.93	113,514,509	101,141,127

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
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
Condo/Townhouse	10.80	7.30	7.50	41.60	18.80	39.60	86	11	3
Condo/Townhouse	10.80	7.30	7.50	41.60	18.80	39.60	86	11	3
Condo/Townhouse	10.80	7.30	7.50	41.60	18.80	39.60	86	11	3
General Light Industry	9.50	7.30	7.30	59.00	28.00	13.00	92	5	3
General Light Industry	9.50	7.30	7.30	59.00	28.00	13.00	92	5	3
General Light Industry	9.50	7.30	7.30	59.00	28.00	13.00	92	5	3
Hotel	9.50	7.30	7.30	19.40	61.60	19.00	58	38	4
Office Park	9.50	7.30	7.30	33.00	48.00	19.00	82	15	3
Office Park	9.50	7.30	7.30	33.00	48.00	19.00	82	15	3
Strip Mall	9.50	7.30	7.30	16.60	64.40	19.00	45	40	15
Strip Mall	9.50	7.30	7.30	16.60	64.40	19.00	45	40	15

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Office Park	0.617015	0.036172	0.176461	0.096699	0.011030	0.005289	0.019152	0.027591	0.001967	0.001602	0.005530	0.000810	0.000683
Office Park	0.617015	0.036172	0.176461	0.096699	0.011030	0.005289	0.019152	0.027591	0.001967	0.001602	0.005530	0.000810	0.000683
General Light Industry	0.617015	0.036172	0.176461	0.096699	0.011030	0.005289	0.019152	0.027591	0.001967	0.001602	0.005530	0.000810	0.000683
General Light Industry	0.617015	0.036172	0.176461	0.096699	0.011030	0.005289	0.019152	0.027591	0.001967	0.001602	0.005530	0.000810	0.000683
General Light Industry	0.617015	0.036172	0.176461	0.096699	0.011030	0.005289	0.019152	0.027591	0.001967	0.001602	0.005530	0.000810	0.000683
City Park	0.617015	0.036172	0.176461	0.096699	0.011030	0.005289	0.019152	0.027591	0.001967	0.001602	0.005530	0.000810	0.000683
City Park	0.617015	0.036172	0.176461	0.096699	0.011030	0.005289	0.019152	0.027591	0.001967	0.001602	0.005530	0.000810	0.000683
Hotel	0.617015	0.036172	0.176461	0.096699	0.011030	0.005289	0.019152	0.027591	0.001967	0.001602	0.005530	0.000810	0.000683
Condo/Townhouse	0.617015	0.036172	0.176461	0.096699	0.011030	0.005289	0.019152	0.027591	0.001967	0.001602	0.005530	0.000810	0.000683
Condo/Townhouse	0.617015	0.036172	0.176461	0.096699	0.011030	0.005289	0.019152	0.027591	0.001967	0.001602	0.005530	0.000810	0.000683
Condo/Townhouse	0.617015	0.036172	0.176461	0.096699	0.011030	0.005289	0.019152	0.027591	0.001967	0.001602	0.005530	0.000810	0.000683
Condo/Townhouse	0.617015	0.036172	0.176461	0.096699	0.011030	0.005289	0.019152	0.027591	0.001967	0.001602	0.005530	0.000810	0.000683
Strip Mall	0.617015	0.036172	0.176461	0.096699	0.011030	0.005289	0.019152	0.027591	0.001967	0.001602	0.005530	0.000810	0.000683
Strip Mall	0.617015	0.036172	0.176461	0.096699	0.011030	0.005289	0.019152	0.027591	0.001967	0.001602	0.005530	0.000810	0.000683

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Exceed Title 24

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	3.0223	26.3436	14.7775	0.1649		2.0882	2.0882		2.0882	2.0882		32,970.8121	32,970.8121	0.6319	0.6045	33,166.7411
NaturalGas Unmitigated	3.2629	28.4381	15.9362	0.1780		2.2544	2.2544		2.2544	2.2544		35,595.2234	35,595.2234	0.6822	0.6526	35,806.7480

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					
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	127627	1.3764	11.7617	5.0050	0.0751		0.9510	0.9510		0.9510	0.9510		15,014.9564	15,014.9564	0.2878	0.2753	15,104.1828
Condo/Townhouse	14050.7	0.1515	1.2949	0.5510	8.2700e-003		0.1047	0.1047		0.1047	0.1047		1,653.0227	1,653.0227	0.0317	0.0303	1,662.8458
Condo/Townhouse	27398.9	0.2955	2.5250	1.0745	0.0161		0.2042	0.2042		0.2042	0.2042		3,223.3943	3,223.3943	0.0618	0.0591	3,242.5493

Condo/Townhouse	39107.8	0.4218	3.6041	1.5336	0.0230		0.2914	0.2914		0.2914	0.2914		4,600.9133	4,600.9133	0.0882	0.0844	4,628.2542
General Light Industry	5239.32	0.0565	0.5137	0.4315	3.0800e-003		0.0390	0.0390		0.0390	0.0390		616.3900	616.3900	0.0118	0.0113	620.0529
General Light Industry	7938.36	0.0856	0.7783	0.6538	4.6700e-003		0.0592	0.0592		0.0592	0.0592		933.9243	933.9243	0.0179	0.0171	939.4741
General Light Industry	9526.03	0.1027	0.9339	0.7845	5.6000e-003		0.0710	0.0710		0.0710	0.0710		1,120.7091	1,120.7091	0.0215	0.0206	1,127.3689
Hotel	40802.2	0.4400	4.0002	3.3602	0.0240		0.3040	0.3040		0.3040	0.3040		4,800.2582	4,800.2582	0.0920	0.0880	4,828.7837
Office Park	12009.5	0.1295	1.1774	0.9890	7.0600e-003		0.0895	0.0895		0.0895	0.0895		1,412.8767	1,412.8767	0.0271	0.0259	1,421.2727
Office Park	17791.8	0.1919	1.7443	1.4652	0.0105		0.1326	0.1326		0.1326	0.1326		2,093.1507	2,093.1507	0.0401	0.0384	2,105.5892
Strip Mall	147.288	1.5900e-003	0.0144	0.0121	9.0000e-005		1.1000e-003	1.1000e-003		1.1000e-003	1.1000e-003		17.3280	17.3280	3.3000e-004	3.2000e-004	17.4309
Strip Mall	920.548	9.9300e-003	0.0903	0.0758	5.4000e-004		6.8600e-003	6.8600e-003		6.8600e-003	6.8600e-003		108.2998	108.2998	2.0800e-003	1.9900e-003	108.9433
Total		**3.2629**	**28.4381**	**15.9362**	**0.1780**		**2.2544**	**2.2544**		**2.2544**	**2.2544**		**35,595.2234**	**35,595.2234**	**0.6822**	**0.6526**	**35,806.7480**

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					
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	117.985	1.2724	10.8731	4.6269	0.0694		0.8791	0.8791		0.8791	0.8791		13,880.6002	13,880.6002	0.2660	0.2545	13,963.0856
Condo/Townhouse	12.9892	0.1401	1.1970	0.5094	7.6400e-003		0.0968	0.0968		0.0968	0.0968		1,528.1395	1,528.1395	0.0293	0.0280	1,537.2204
Condo/Townhouse	25.3289	0.2732	2.3342	0.9933	0.0149		0.1887	0.1887		0.1887	0.1887		2,979.8720	2,979.8720	0.0571	0.0546	2,997.5799
Condo/Townhouse	36.1532	0.3899	3.3318	1.4178	0.0213		0.2694	0.2694		0.2694	0.2694		4,253.3215	4,253.3215	0.0815	0.0780	4,278.5969
General Light Industry	5.04312	0.0544	0.4944	0.4153	2.9700e-003		0.0376	0.0376		0.0376	0.0376		593.3086	593.3086	0.0114	0.0109	596.8344
General Light Industry	7.6411	0.0824	0.7491	0.6293	4.4900e-003		0.0569	0.0569		0.0569	0.0569		898.9525	898.9525	0.0172	0.0165	904.2945

General Light Industry	9.16932	0.0989	0.8990	0.7551	5.3900e-003		0.0683	0.0683		0.0683	0.0683		1,078.7430	1,078.7430	0.0207	0.0198	1,085.1534
Hotel	37.4947	0.4044	3.6760	3.0878	0.0221		0.2794	0.2794		0.2794	0.2794		4,411.1432	4,411.1432	0.0846	0.0809	4,437.3565
Office Park	11.0556	0.1192	1.0839	0.9105	6.5000e-003		0.0824	0.0824		0.0824	0.0824		1,300.6559	1,300.6559	0.0249	0.0239	1,308.3851
Office Park	16.3786	0.1766	1.6058	1.3488	9.6300e-003		0.1220	0.1220		0.1220	0.1220		1,926.8977	1,926.8977	0.0369	0.0353	1,938.3483
Strip Mall	0.139726	1.5100e-003	0.0137	0.0115	8.0000e-005		1.0400e-003	1.0400e-003		1.0400e-003	1.0400e-003		16.4384	16.4384	3.2000e-004	3.0000e-004	16.5360
Strip Mall	0.873288	9.4200e-003	0.0856	0.0719	5.1000e-004		6.5100e-003	6.5100e-003		6.5100e-003	6.5100e-003		102.7397	102.7397	1.9700e-003	1.8800e-003	103.3503
Total		**3.0223**	**26.3436**	**14.7775**	**0.1648**		**2.0882**	**2.0882**		**2.0882**	**2.0882**		**32,970.8121**	**32,970.8121**	**0.6319**	**0.6045**	**33,166.7411**

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	166.8788	151.7182	428.0188	0.9609		13.9599	13.9599		13.9599	13.9599	0.0000	188,961.8034	188,961.8034	4.2384	3.4522	190,096.5160
Unmitigated	166.8788	151.7182	428.0188	0.9609		13.9599	13.9599		13.9599	13.9599	0.0000	188,961.8034	188,961.8034	4.2384	3.4522	190,096.5160

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	11.8714					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	126.8131					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	17.2609	147.5026	62.7671	0.9415		11.9257	11.9257		11.9257	11.9257	0.0000	188,301.1765	188,301.1765	3.6091	3.4522	189,420.1562
Landscaping	10.9333	4.2156	365.2517	0.0194		2.0342	2.0342		2.0342	2.0342		660.6269	660.6269	0.6293		676.3598
Total	**166.8788**	**151.7182**	**428.0188**	**0.9609**		**13.9599**	**13.9599**		**13.9599**	**13.9599**	**0.0000**	**188,961.8034**	**188,961.8034**	**4.2384**	**3.4522**	**190,096.5160**

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	11.8714					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	126.8131					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	17.2609	147.5026	62.7671	0.9415		11.9257	11.9257		11.9257	11.9257	0.0000	188,301.1765	188,301.1765	3.6091	3.4522	189,420.1562
Landscaping	10.9333	4.2156	365.2517	0.0194		2.0342	2.0342		2.0342	2.0342		660.6269	660.6269	0.6293		676.3598
Total	**166.8788**	**151.7182**	**428.0188**	**0.9609**		**13.9599**	**13.9599**		**13.9599**	**13.9599**	**0.0000**	**188,961.8034**	**188,961.8034**	**4.2384**	**3.4522**	**190,096.5160**

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 Stationary Equipment

Fire Pumps and Emergency Generators

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

Boilers

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

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

Stone Creek Operations

San Diego Air Basin, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Office Park	135.00	1000sqft	3.10	135,000.00	0
Office Park	200.00	1000sqft	4.59	200,000.00	0
General Light Industry	165.00	1000sqft	3.79	165,000.00	0
General Light Industry	250.00	1000sqft	5.74	250,000.00	0
General Light Industry	300.00	1000sqft	6.89	300,000.00	0
City Park	5.98	Acre	5.98	260,488.80	0
City Park	30.21	Acre	30.21	1,315,947.60	0
Hotel	175.00	Room	5.83	254,100.00	0
Condo/Townhouse	585.00	Dwelling Unit	36.56	585,000.00	1673
Condo/Townhouse	2,725.00	Dwelling Unit	170.31	2,725,000.00	7794
Condo/Townhouse	835.00	Dwelling Unit	52.19	835,000.00	2388
Condo/Townhouse	300.00	Dwelling Unit	18.75	300,000.00	858
Strip Mall	24.00	1000sqft	0.55	24,000.00	0
Strip Mall	150.00	1000sqft	3.44	150,000.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.6	**Precipitation Freq (Days)**	40
Climate Zone	13			**Operational Year**	2040
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

Vehicle Emission Factors -

Vehicle Emission Factors -

Vehicle Emission Factors -

Road Dust - USEPA ubiquitous baseline

Woodstoves - 50% natural gas fireplaces

Area Coating - Rule 67.0.1 coatings

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Parking	250.00	0.00
tblAreaCoating	Area_EF_Nonresidential_Exterior	250	100
tblAreaCoating	Area_EF_Nonresidential_Interior	250	50
tblAreaCoating	Area_EF_Residential_Exterior	250	100
tblAreaCoating	Area_EF_Residential_Interior	250	50
tblConstructionPhase	NumDays	440.00	0.00
tblConstructionPhase	NumDays	6,200.00	0.00
tblConstructionPhase	NumDays	400.00	0.00
tblConstructionPhase	NumDays	620.00	0.00
tblConstructionPhase	NumDays	440.00	0.00
tblConstructionPhase	NumDays	240.00	0.00
tblFireplaces	NumberGas	2,444.75	2,223.00
tblFireplaces	NumberNoFireplace	444.50	2,222.00
tblFireplaces	NumberWood	1,555.75	0.00
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	OperationalYear	2018	2040
tblRoadDust	RoadSiltLoading	0.1	0.03
tblTripsAndVMT	WorkerTripNumber	850.00	0.00
tblTripsAndVMT	WorkerTripNumber	4,250.00	0.00
tblTripsAndVMT	WorkerTripNumber	18.00	10.00
tblTripsAndVMT	WorkerTripNumber	23.00	10.00
tblTripsAndVMT	WorkerTripNumber	23.00	18.00
tblTripsAndVMT	WorkerTripNumber	13.00	5.00
tblVehicleTrips	ST_TR	22.75	5.00
tblVehicleTrips	ST_TR	5.67	5.43
tblVehicleTrips	ST_TR	8.19	8.00
tblVehicleTrips	ST_TR	42.04	38.97
tblVehicleTrips	SU_TR	16.74	5.00
tblVehicleTrips	SU_TR	4.84	5.43
tblVehicleTrips	SU_TR	5.95	8.00
tblVehicleTrips	SU_TR	20.43	38.97
tblVehicleTrips	WD_TR	1.89	5.00
tblVehicleTrips	WD_TR	5.81	5.43
tblVehicleTrips	WD_TR	6.97	14.64
tblVehicleTrips	WD_TR	8.17	8.00
tblVehicleTrips	WD_TR	11.42	14.00
tblVehicleTrips	WD_TR	44.32	38.97
tblWoodstoves	NumberCatalytic	222.25	0.00

tblWoodstoves	NumberNoncatalytic	222.25	0.00

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2038	0.0000	0.0000	0.0000	0.0000	0.0000	0.9445	0.0000	0.0000	0.9415	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Maximum	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.9445**	**0.0000**	**0.0000**	**0.9415**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2038	0.0000	0.0000	0.0000	0.0000	0.0000	0.9445	0.0000	0.0000	0.9415	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Maximum	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.9445**	**0.0000**	**0.0000**	**0.9415**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

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

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	166.8788	151.7182	428.0188	0.9609		13.9599	13.9599		13.9599	13.9599	0.0000	188,961.8034	188,961.8034	4.2384	3.4522	190,096.5160
Energy	3.2629	28.4381	15.9362	0.1780		2.2544	2.2544		2.2544	2.2544		35,595.2234	35,595.2234	0.6822	0.6526	35,806.7480
Mobile	126.5186	638.6769	1,554.76	7.0528	202.0291	2.9924	205.0215	68.7305	2.7856	71.5162		725,656.4622	725,656.4622	35.3017		726,539.0038
Total	**296.6603**	**818.8332**	**1,998.72**	**8.1917**	**202.0291**	**19.2067**	**221.2358**	**68.7305**	**18.9999**	**87.7305**	**0.0000**	**950,213.4889**	**950,213.4889**	**40.2223**	**4.1048**	**952,442.2678**

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	166.8788	151.7182	428.0188	0.9609		13.9599	13.9599		13.9599	13.9599	0.0000	188,961.8034	188,961.8034	4.2384	3.4522	190,096.5160
Energy	3.0223	26.3436	14.7775	0.1649		2.0882	2.0882		2.0882	2.0882		32,970.8121	32,970.8121	0.6319	0.6045	33,166.7411
Mobile	119.5971	610.5354	1423.357	6.3357	180.0079	2.7069	182.7058	61.2389	2.5195	63.7584		652,069.2200	652,069.2200	32.1482		652,872.9238
Total	**289.4982**	**788.5972**	**1,866.15**	**7.4615**	**180.0079**	**18.755**	**198.7539**	**61.2389**	**18.5676**	**79.8065**	**0.0000**	**874,001.8354**	**874,001.8354**	**37.0185**	**4.0567**	**876,136.1809**

	ROG	NOx	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	**2.41**	**3.69**	**6.63**	**8.91**	**10.90**	**2.35**	**10.16**	**10.90**	**2.27**	**9.03**	**0.00**	**8.02**	**8.02**	**7.97**	**1.17**	**8.01**

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Architectural Coating	Architectural Coating	4/6/2038	4/5/2038	5	0	
2	Building Construction	Building Construction	4/6/2038	4/5/2038	5	0	
3	Demolition	Demolition	4/6/2038	4/5/2038	5	0	
4	Grading	Grading	4/6/2038	4/5/2038	5	0	
5	Paving	Paving	4/6/2038	4/5/2038	5	0	
6	Site Preparation	Site Preparation	4/6/2038	4/5/2038	5	0	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

Residential Indoor: 9,001,125; Residential Outdoor: 3,000,375; Non-Residential Indoor: 2,217,150; Non-Residential Outdoor: 739,050;

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	231	0.29
Building Construction	Forklifts	2	6.00	89	0.20
Site Preparation	Graders	1	8.00	187	0.41
Paving	Pavers	1	7.00	130	0.42
Paving	Rollers	1	7.00	80	0.38
Demolition	Rubber Tired Dozers	1	1.00	247	0.40
Grading	Rubber Tired Dozers	1	1.00	247	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	158	0.38
Grading	Excavators	2	8.00	158	0.38
Building Construction	Generator Sets	1	8.00	84	0.74
Grading	Graders	1	8.00	187	0.41
Paving	Paving Equipment	2	8.00	132	0.36
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Grading	Scrapers	2	8.00	367	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
Architectural Coating	1	0.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	7	0.00	904.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Demolition	7	10.00	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
Paving	9	18.00	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

3.1 Mitigation Measures Construction

3.2 Architectural Coating - 2038

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated Construction On-Site

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

Off-Road	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

3.3 Building Construction - 2038

Unmitigated Construction On-Site

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

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated Construction On-Site

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

Mitigated Construction Off-Site

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

Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

3.4 Demolition - 2038

Unmitigated Construction On-Site

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

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated Construction On-Site

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

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

3.5 Grading - 2038

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated Construction On-Site

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

Off-Road	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

3.6 Paving - 2038

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Paving	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Paving	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated Construction Off-Site

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

Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

3.7 Site Preparation - 2038

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Increase Density

Increase Diversity

Increase Transit Accessibility

Improve Pedestrian Network

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	119.5971	610.5354	1423.357	6.3357	180.0079	2.7069	182.7058	61.2389	2.5195	63.7584		652,069.2200	652,069.2200	32.1482		652,872.9238
Unmitigated	126.5186	638.6769	1,554.76	7.0528	202.0291	2.9924	205.0215	68.7305	2.7856	71.5162		725,656.4622	725,656.4622	35.3017		726,539.0038

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
City Park	29.90	29.90	29.90	63,832	56,874
City Park	151.10	151.10	151.10	215,834	192,308
Condo/Townhouse	3,176.55	3,176.55	3176.55	9,070,014	8,081,382
Condo/Townhouse	14,796.75	14,796.75	14796.75	42,249,210	37,644,046
Condo/Townhouse	4,534.05	4,534.05	4534.05	12,946,088	11,534,965
Condo/Townhouse	1,629.00	1,629.00	1629.00	4,651,289	4,144,299
General Light Industry	2,415.60	217.80	112.20	5,175,042	4,610,962
General Light Industry	3,660.00	330.00	170.00	7,840,973	6,986,307
General Light Industry	4,392.00	396.00	204.00	9,409,167	8,383,568
Hotel	1,400.00	1,400.00	1400.00	2,659,903	2,369,974
Office Park	1,890.00	221.40	102.60	3,499,437	3,117,999
Office Park	2,800.00	328.00	152.00	5,184,352	4,619,257
Strip Mall	935.28	935.28	935.28	1,440,362	1,283,363
Strip Mall	5,845.50	5,845.50	5845.50	9,002,263	8,021,016
Total	47,655.73	33,991.33	33,238.93	113,514,509	101,141,127

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
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
Condo/Townhouse	10.80	7.30	7.50	41.60	18.80	39.60	86	11	3
Condo/Townhouse	10.80	7.30	7.50	41.60	18.80	39.60	86	11	3
Condo/Townhouse	10.80	7.30	7.50	41.60	18.80	39.60	86	11	3
General Light Industry	9.50	7.30	7.30	59.00	28.00	13.00	92	5	3
General Light Industry	9.50	7.30	7.30	59.00	28.00	13.00	92	5	3
General Light Industry	9.50	7.30	7.30	59.00	28.00	13.00	92	5	3
Hotel	9.50	7.30	7.30	19.40	61.60	19.00	58	38	4
Office Park	9.50	7.30	7.30	33.00	48.00	19.00	82	15	3
Office Park	9.50	7.30	7.30	33.00	48.00	19.00	82	15	3
Strip Mall	9.50	7.30	7.30	16.60	64.40	19.00	45	40	15
Strip Mall	9.50	7.30	7.30	16.60	64.40	19.00	45	40	15

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Office Park	0.617015	0.036172	0.176461	0.096699	0.011030	0.005289	0.019152	0.027591	0.001967	0.001602	0.005530	0.000810	0.000683
Office Park	0.617015	0.036172	0.176461	0.096699	0.011030	0.005289	0.019152	0.027591	0.001967	0.001602	0.005530	0.000810	0.000683
General Light Industry	0.617015	0.036172	0.176461	0.096699	0.011030	0.005289	0.019152	0.027591	0.001967	0.001602	0.005530	0.000810	0.000683
General Light Industry	0.617015	0.036172	0.176461	0.096699	0.011030	0.005289	0.019152	0.027591	0.001967	0.001602	0.005530	0.000810	0.000683
General Light Industry	0.617015	0.036172	0.176461	0.096699	0.011030	0.005289	0.019152	0.027591	0.001967	0.001602	0.005530	0.000810	0.000683
City Park	0.617015	0.036172	0.176461	0.096699	0.011030	0.005289	0.019152	0.027591	0.001967	0.001602	0.005530	0.000810	0.000683
City Park	0.617015	0.036172	0.176461	0.096699	0.011030	0.005289	0.019152	0.027591	0.001967	0.001602	0.005530	0.000810	0.000683
Hotel	0.617015	0.036172	0.176461	0.096699	0.011030	0.005289	0.019152	0.027591	0.001967	0.001602	0.005530	0.000810	0.000683
Condo/Townhouse	0.617015	0.036172	0.176461	0.096699	0.011030	0.005289	0.019152	0.027591	0.001967	0.001602	0.005530	0.000810	0.000683
Condo/Townhouse	0.617015	0.036172	0.176461	0.096699	0.011030	0.005289	0.019152	0.027591	0.001967	0.001602	0.005530	0.000810	0.000683
Condo/Townhouse	0.617015	0.036172	0.176461	0.096699	0.011030	0.005289	0.019152	0.027591	0.001967	0.001602	0.005530	0.000810	0.000683
Condo/Townhouse	0.617015	0.036172	0.176461	0.096699	0.011030	0.005289	0.019152	0.027591	0.001967	0.001602	0.005530	0.000810	0.000683
Strip Mall	0.617015	0.036172	0.176461	0.096699	0.011030	0.005289	0.019152	0.027591	0.001967	0.001602	0.005530	0.000810	0.000683
Strip Mall	0.617015	0.036172	0.176461	0.096699	0.011030	0.005289	0.019152	0.027591	0.001967	0.001602	0.005530	0.000810	0.000683

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Exceed Title 24

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	3.0223	26.3436	14.7775	0.1649		2.0882	2.0882		2.0882	2.0882		32,970.8121	32,970.8121	0.6319	0.6045	33,166.7411
NaturalGas Unmitigated	3.2629	28.4381	15.9362	0.1780		2.2544	2.2544		2.2544	2.2544		35,595.2234	35,595.2234	0.6822	0.6526	35,806.7480

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					
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	127627	1.3764	11.7617	5.0050	0.0751		0.9510	0.9510		0.9510	0.9510		15,014.9564	15,014.9564	0.2878	0.2753	15,104.1828
Condo/Townhouse	14050.7	0.1515	1.2949	0.5510	8.2700e-003		0.1047	0.1047		0.1047	0.1047		1,653.0227	1,653.0227	0.0317	0.0303	1,662.8458
Condo/Townhouse	27398.9	0.2955	2.5250	1.0745	0.0161		0.2042	0.2042		0.2042	0.2042		3,223.3943	3,223.3943	0.0618	0.0591	3,242.5493

Condo/Townhouse	39107.8	0.4218	3.6041	1.5336	0.0230		0.2914	0.2914		0.2914	0.2914		4,600.9133	4,600.9133	0.0882	0.0844	4,628.2542
General Light Industry	5239.32	0.0565	0.5137	0.4315	3.0800e-003		0.0390	0.0390		0.0390	0.0390		616.3900	616.3900	0.0118	0.0113	620.0529
General Light Industry	7938.36	0.0856	0.7783	0.6538	4.6700e-003		0.0592	0.0592		0.0592	0.0592		933.9243	933.9243	0.0179	0.0171	939.4741
General Light Industry	9526.03	0.1027	0.9339	0.7845	5.6000e-003		0.0710	0.0710		0.0710	0.0710		1,120.7091	1,120.7091	0.0215	0.0206	1,127.3689
Hotel	40802.2	0.4400	4.0002	3.3602	0.0240		0.3040	0.3040		0.3040	0.3040		4,800.2582	4,800.2582	0.0920	0.0880	4,828.7837
Office Park	12009.5	0.1295	1.1774	0.9890	7.0600e-003		0.0895	0.0895		0.0895	0.0895		1,412.8767	1,412.8767	0.0271	0.0259	1,421.2727
Office Park	17791.8	0.1919	1.7443	1.4652	0.0105		0.1326	0.1326		0.1326	0.1326		2,093.1507	2,093.1507	0.0401	0.0384	2,105.5892
Strip Mall	147.288	1.5900e-003	0.0144	0.0121	9.0000e-005		1.1000e-003	1.1000e-003		1.1000e-003	1.1000e-003		17.3280	17.3280	3.3000e-004	3.2000e-004	17.4309
Strip Mall	920.548	9.9300e-003	0.0903	0.0758	5.4000e-004		6.8600e-003	6.8600e-003		6.8600e-003	6.8600e-003		108.2998	108.2998	2.0800e-003	1.9900e-003	108.9433
Total		**3.2629**	**28.4381**	**15.9362**	**0.1780**		**2.2544**	**2.2544**		**2.2544**	**2.2544**		**35,595.2234**	**35,595.2234**	**0.6822**	**0.6526**	**35,806.7480**

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					
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	117.985	1.2724	10.8731	4.6269	0.0694		0.8791	0.8791		0.8791	0.8791		13,880.6002	13,880.6002	0.2660	0.2545	13,963.0856
Condo/Townhouse	12.9892	0.1401	1.1970	0.5094	7.6400e-003		0.0968	0.0968		0.0968	0.0968		1,528.1395	1,528.1395	0.0293	0.0280	1,537.2204
Condo/Townhouse	25.3289	0.2732	2.3342	0.9933	0.0149		0.1887	0.1887		0.1887	0.1887		2,979.8720	2,979.8720	0.0571	0.0546	2,997.5799
Condo/Townhouse	36.1532	0.3899	3.3318	1.4178	0.0213		0.2694	0.2694		0.2694	0.2694		4,253.3215	4,253.3215	0.0815	0.0780	4,278.5969
General Light Industry	5.04312	0.0544	0.4944	0.4153	2.9700e-003		0.0376	0.0376		0.0376	0.0376		593.3086	593.3086	0.0114	0.0109	596.8344
General Light Industry	7.6411	0.0824	0.7491	0.6293	4.4900e-003		0.0569	0.0569		0.0569	0.0569		898.9525	898.9525	0.0172	0.0165	904.2945

General Light Industry	9.16932	0.0989	0.8990	0.7551	5.3900e-003		0.0683	0.0683		0.0683	0.0683		1,078.7430	1,078.7430	0.0207	0.0198	1,085.1534
Hotel	37.4947	0.4044	3.6760	3.0878	0.0221		0.2794	0.2794		0.2794	0.2794		4,411.1432	4,411.1432	0.0846	0.0809	4,437.3565
Office Park	11.0556	0.1192	1.0839	0.9105	6.5000e-003		0.0824	0.0824		0.0824	0.0824		1,300.6559	1,300.6559	0.0249	0.0239	1,308.3851
Office Park	16.3786	0.1766	1.6058	1.3488	9.6300e-003		0.1220	0.1220		0.1220	0.1220		1,926.8977	1,926.8977	0.0369	0.0353	1,938.3483
Strip Mall	0.139726	1.5100e-003	0.0137	0.0115	8.0000e-005		1.0400e-003	1.0400e-003		1.0400e-003	1.0400e-003		16.4384	16.4384	3.2000e-004	3.0000e-004	16.5360
Strip Mall	0.873288	9.4200e-003	0.0856	0.0719	5.1000e-004		6.5100e-003	6.5100e-003		6.5100e-003	6.5100e-003		102.7397	102.7397	1.9700e-003	1.8800e-003	103.3503
Total		**3.0223**	**26.3436**	**14.7775**	**0.1648**		**2.0882**	**2.0882**		**2.0882**	**2.0882**		**32,970.8121**	**32,970.8121**	**0.6319**	**0.6045**	**33,166.7411**

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	166.8788	151.7182	428.0188	0.9609		13.9599	13.9599		13.9599	13.9599	0.0000	188,961.8034	188,961.8034	4.2384	3.4522	190,096.5160
Unmitigated	166.8788	151.7182	428.0188	0.9609		13.9599	13.9599		13.9599	13.9599	0.0000	188,961.8034	188,961.8034	4.2384	3.4522	190,096.5160

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	11.8714					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	126.8131					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	17.2609	147.5026	62.7671	0.9415		11.9257	11.9257		11.9257	11.9257	0.0000	188,301.1765	188,301.1765	3.6091	3.4522	189,420.1562
Landscaping	10.9333	4.2156	365.2517	0.0194		2.0342	2.0342		2.0342	2.0342		660.6269	660.6269	0.6293		676.3598
Total	**166.8788**	**151.7182**	**428.0188**	**0.9609**		**13.9599**	**13.9599**		**13.9599**	**13.9599**	**0.0000**	**188,961.8034**	**188,961.8034**	**4.2384**	**3.4522**	**190,096.5160**

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	11.8714					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	126.8131					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	17.2609	147.5026	62.7671	0.9415		11.9257	11.9257		11.9257	11.9257	0.0000	188,301.1765	188,301.1765	3.6091	3.4522	189,420.1562
Landscaping	10.9333	4.2156	365.2517	0.0194		2.0342	2.0342		2.0342	2.0342		660.6269	660.6269	0.6293		676.3598
Total	**166.8788**	**151.7182**	**428.0188**	**0.9609**		**13.9599**	**13.9599**		**13.9599**	**13.9599**	**0.0000**	**188,961.8034**	**188,961.8034**	**4.2384**	**3.4522**	**190,096.5160**

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 Stationary Equipment

Fire Pumps and Emergency Generators

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

Boilers

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

User Defined Equipment

Equipment Type	Number

11.0 Vegetation