Appendix H

Air Quality Technical Report

AIR QUALITY TECHNICAL STUDY
FOR THE
OLD TOWN COMMUNITY PLAN UPDATE

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LIST OF ACRONYMS AND ABBREVIATIONS

$\mu g/m^3$	micrograms per cubic meter
°F	degrees Fahrenheit
ARB	Air Resources Board
CAAQS	California Ambient Air Quality Standards
CalEEMod	California Emissions Estimator Model
CO	carbon monoxide
CPU	Community Plan Update
EPA	U.S. Environmental Protection Agency
lbs	pounds
mg/m^3	milligrams per cubic meter
NAAQS	National Ambient Air Quality Standards
NO	nitric oxide
NO_2	nitrogen dioxide
NO_X	oxides of nitrogen
PM	particulate matter
PM_{10}	particulate matter with size equal to or less than 10 micrometers in diameter
$PM_{2.5}$	particulate matter with size equal to or less than 2.5 micrometers in diameter
ppb	parts per billion
ppm	parts per million
SDAB	San Diego Air Basin
SDAPCD	San Diego Air Pollution Control District
SO_2	sulfur dioxide
TIS	Traffic Impact Study
VMT	vehicle miles traveled
VOC	volatile organic compounds
WRCC	Western Regional Climate Center

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SECTION 1
INTRODUCTION

This air quality technical study analyzes the proposed Old Town Community Plan Update (CPU). The Old Town CPU area is centrally located to the north of Downtown San Diego and south of Mission Bay. The Old Town Community Plan area lies between the Midway Pacific-Highway Community Plan area to the west and Mission Hills and Mission Valley to the east. The Old Town CPU provides a long-range guide for the future physical development of the community. The existing Old Town Community Plan was last updated in 1987. The proposed CPU, and associated actions, will ensure consistency of the CPU with and incorporate relevant policies from the City of San Diego General Plan (General Plan), as well as provide a long-range, comprehensive policy framework and vision for growth and development in the Old Town community through 2035.

This air quality technical report was prepared to support the City of San Diego environmental review process. This report includes the project description, describes the existing air quality setting of the project area, the modeling methodologies used to perform the air quality analysis, and the results of the analysis.

1.1 PROJECT DESCRIPTION

The project includes the comprehensive update to the Old Town Community Plan, which is intended to guide development through 2035 build-out of the Community Plan. The proposed CPU provides detailed policy direction to implement the General Plan with respect to the distribution and arrangement of land uses (public and private); local street and transit network; prioritization and provision of public facilities, community, and site-specific urban design guidelines; and recommendations to preserve and enhance natural open space and historic and cultural resources within the Old Town community.

The guiding principles for the proposed CPU include the vision for Old Town community as an attractive, vibrant, and healthy community that respects the importance of Old Town San Diego as the site of initial settlement in the City and the birthplace of the State of California. The proposed CPU also envisions the community as a pedestrian-oriented historical small town and provide policy direction that new buildings and uses enhance the community character and livability with an emphasis on design that respects the history of the community and encourages pedestrian activity. The proposed CPU identifies the need for a community with a balance of residential and visitor-serving uses. The CPU identifies the community's mix of pedestrian-oriented residential, commercial, and public space served by the Old Town Transit Center is consistent with the "City of Villages" General Plan concept.

Source: SANDAG 2014; City of San Diego 2017

1,000 500 0 1,000 Feet

Scale: 1:12,000; 1 inch = 1,000 feet

Figure 1
Old Town Community Plan Area

Path: P:_6044\60440144_MidOld_CPU\900-CAD-GIS\920 GIS\922_Maps\CommunityPlan\OldTown_Community_85x11.mxd, 7/19/2017, augellop

SECTION 2
EXISTING CONDITIONS

2.1 CLIMATE, TOPOGRAPHY, AND METEOROLOGY

Air quality is defined by the concentration of pollutants in relation to their impact on human health. Concentrations of air pollutants are determined by the rate and location of pollutant emissions released by pollution sources, and the atmosphere's ability to transport and dilute such emissions. Natural factors that affect transport and dilution include terrain, wind, and sunlight. Therefore, ambient air quality conditions within the local air basin are influenced by such natural factors as topography, meteorology, and climate, in addition to the amount of air pollutant emissions released by existing air pollutant sources.

Climate, topography, and meteorology influence regional and local ambient air quality. Southern California is characterized as a semiarid climate, although it contains three distinct zones of rainfall that coincide with the coast, mountain, and desert. The project is located in the City of San Diego in the south coastal portion of San Diego County, and within the San Diego Air Basin (SDAB). The SDAB is a coastal plain with connecting broad valleys and low hills, bounded by the Pacific Ocean to the west and high mountain ranges to the east. The topography in the SDAB region varies greatly, from beaches on the west, to mountains and desert to the east.

The climate of the SDAB is characterized by warm, dry summers and mild winters. One of the main determinants of its climatology is a semi-permanent high pressure area in the eastern Pacific Ocean. This high-pressure cell maintains clear skies for much of the year. When the Pacific High moves southward during the winter, this pattern changes, and low-pressure storms are brought into the region, causing widespread precipitation. During fall, the region often experiences dry, warm easterly winds, locally referred to as Santa Ana winds, which raise temperatures and lower humidity, often to less than 20 percent.

The local meteorology of the area is represented by measurements recorded at the Lindbergh International Airport station. The normal annual precipitation, which occurs primarily from October through April, is approximately 10 inches. Normal January temperatures range from an average minimum of 48 degrees Fahrenheit (°F) to an average maximum of 65°F, and August temperatures range from an average minimum of 66°F to an average maximum of 76°F (WRCC 2017). The predominant wind direction and speed, measured at the Lindbergh International Airport station, is from the west at approximately 7.0 miles per hour (mph) (WRCC 2016).

A dominant characteristic of spring and summer is night and early morning cloudiness, locally known as the marine layer. Low clouds form regularly, frequently extending inland over the coastal foothills and valleys. These clouds usually dissipate during the morning, and afternoons are generally clear.

A common atmospheric condition known as a temperature inversion affects air quality in the SDAB. During an inversion, air temperatures get warmer rather than cooler with increasing height. Inversion layers are important for local air quality, because they inhibit the dispersion of pollutants and result in a temporary degradation of air quality. The pollution potential of an area is largely dependent on a combination of winds, atmospheric stability, solar radiation, and terrain. The combination of low wind speeds and low-level

inversions produces the greatest concentration of air pollutants. On days without inversions, or on days of winds averaging over 15 mph, the atmospheric pollution potential is greatly reduced.

2.2 CRITERIA POLLUTANTS

Individual air pollutants at certain concentrations may adversely affect human or animal health, reduce visibility, damage property, and reduce the productivity or vigor of crops and natural vegetation. Six air pollutants have been identified by the United States Environmental Protection Agency (EPA) and the California Air Resources Board (ARB) as being of concern both on a nationwide and statewide level: ozone; carbon monoxide (CO); nitrogen dioxide (NO_2); sulfur dioxide (SO_2); lead; and particulate matter (PM), which is subdivided into two classes based on particle size: PM equal to or less than 10 micrometers in diameter (PM_{10}) and PM equal to or less than 2.5 micrometers in diameter ($PM_{2.5}$). Because the air quality standards for these air pollutants are regulated using human health and environmentally based criteria, they are commonly referred to as "criteria air pollutants."

Ozone. Ozone is the principal component of smog and is formed in the atmosphere through a series of reactions involving volatile organic compounds (VOC) and nitrogen oxides (NO_X) in the presence of sunlight. VOCs and NO_X are called precursors of ozone. NO_X includes various combinations of nitrogen and oxygen, including nitric oxide (NO), NO_2, and others. Ozone is a principal cause of lung and eye irritation in the urban environment. Significant ozone concentrations are usually produced only in the summer, when atmospheric inversions are greatest and temperatures are high. VOC and NO_X emissions are both considered critical in ozone formation.

Individuals exercising outdoors, children, and people with preexisting lung disease, such as asthma and chronic pulmonary lung disease, are considered the most susceptible sub-groups for ozone effects. Short-term exposure (lasting for a few hours) to ozone can result in breathing pattern changes, reduction of breathing capacity, increased susceptibility to infections, inflammation of the lung tissue, and some immunological changes.

Carbon Monoxide. CO is a colorless and odorless gas that, in the urban environment, is associated primarily with the incomplete combustion of fossil fuels in motor vehicles. Relatively high concentrations are typically found near crowded intersections and along heavily used roadways carrying slow-moving traffic. Even under most severe meteorological and traffic conditions, high concentrations of CO are limited to locations within a relatively short distance (300 to 600 feet) of heavily traveled roadways. Vehicle traffic emissions can cause localized CO impacts, and severe vehicle congestion at major signalized intersections can generate elevated CO levels, called "hot spots," which can be hazardous to human receptors adjacent to the intersections.

Individuals with a deficient blood supply to the heart are the most susceptible to the adverse effects of CO exposure. The effects observed include earlier onset of chest pain with exercise, and electrocardiograph changes indicative of decreased oxygen supply to the heart. Inhaled CO has no direct toxic effect on the lungs, but exerts its effect on tissues by interfering with oxygen transport.

Nitrogen Dioxide. NO_2 is a product of combustion and is generated in vehicles and in stationary sources, such as power plants and boilers. It is also formed when ozone reacts with NO in the atmosphere. As noted above, NO_2 is part of the NO_X family and is a principal contributor to ozone and smog generation.

Population-based studies suggest that an increase in acute respiratory illness, including infections and respiratory symptoms in children, is associated with long-term exposure to NO_2 at levels found in homes with gas stoves, which are higher than ambient levels found in Southern California. Increase in resistance to air flow and airway contraction is observed after short-term exposure to NO_2 in healthy subjects.

Sulfur Dioxide. SO_2 is a combustion product, with the primary source being power plants and heavy industries that use coal or oil as fuel. SO_2 is also a product of diesel engine combustion. SO_2 in the atmosphere contributes to the formation of acid rain.

In asthmatics, increase in resistance to air flow, as well as reduction in breathing capacity leading to severe breathing difficulties, are observed after acute exposure to SO_2. In contrast, healthy individuals do not exhibit similar acute responses even after exposure to higher concentrations of SO_2. Some population-based studies indicate that the mortality and morbidity effects associated with fine particles show a similar association with ambient SO_2 levels.

Lead. Lead is a highly toxic metal that may cause a range of human health effects. Previously, the lead used in gasoline anti-knock additives represented a major source of lead emissions to the atmosphere. EPA began working to reduce lead emissions soon after its inception, issuing the first reduction standards in 1973. Lead emissions have significantly decreased due to the near elimination of leaded gasoline use.

Fetuses, infants, and children are more sensitive than others to the adverse effects of lead exposure. Exposure to low levels of lead can adversely affect the development and function of the central nervous system, leading to learning disorders, distractibility, inability to follow simple commands, and lower intelligence quotient. In adults, increased lead levels are associated with increased blood pressure.

Particulate Matter. PM is a complex mixture of extremely small particles and liquid droplets. PM is made up of a number of components, including acids (such as nitrates and sulfates), organic chemicals, metals, and soil or dust particles. Natural sources of PM include windblown dust and ocean spray. The size of particulate matter is directly linked to the potential for causing health problems. EPA is concerned about particles that are 10 micrometers in diameter or smaller, because these particles generally pass through the throat and nose and enter the lungs. Once inhaled, these particles can affect the heart and lungs and cause serious health effects. Health studies have shown a significant association between exposure to particulate matter and premature death. Other important effects include aggravation of respiratory and cardiovascular disease, lung disease, decreased lung function, asthma attacks, and certain cardiovascular problems, such as heart attacks and irregular heartbeat (EPA 2007). Individuals particularly sensitive to fine particle exposure include older adults, people with heart and lung disease, and children. As previously discussed, EPA groups PM into two categories, which are described below.

$PM_{2.5.}$ Fine particles, such as those found in smoke and haze, are $PM_{2.5}$. Sources of fine particles include all types of combustion activities (motor vehicles, power plants, wood burning, etc.) and certain industrial processes. $PM_{2.5}$ is also formed through reactions of gases, such as SO_2 and NO_X, in the atmosphere. $PM_{2.5}$ is the major cause of reduced visibility (haze) in California.

$PM_{10.}$ PM_{10} includes both fine and coarse dust particles; the fine particles are $PM_{2.5}$. Coarse particles, such as those found near roadways and dusty industries, are larger than 2.5 micrometers and smaller than 10 micrometers in diameter. Sources of coarse particles include crushing or grinding operations and

dust from paved or unpaved roads. Control of PM_{10} is primarily achieved through the control of dust at construction and industrial sites, the cleaning of paved roads, and the wetting or paving of frequently used unpaved roads.

2.3 AIR QUALITY STANDARDS

Health-based air quality standards have been established for these criteria pollutants by EPA at the national level and by ARB at the state level. These standards were established to protect the public with a margin of safety from adverse health impacts due to exposure to air pollution. California has also established standards for sulfates, visibility-reducing particles, hydrogen sulfide, and vinyl chloride. Table 1 presents the National Ambient Air Quality Standards (NAAQS) and the California Ambient Air Quality Standards (CAAQS).

Table 1
National and California Ambient Air Quality Standards

Pollutant	Averaging Time	California Standards [a]	National Standards [b]	
		Concentration [c]	Primary [c,d]	Secondary [c,e]
Ozone[l]	1 hour	0.09 ppm (180 µg/m^3)	–	Same as primary standard
	8 hours	0.070 ppm (137 µg/m^3)	0.070 ppm (137 µg/m^3)	
Respirable particulate matter (PM_{10})[f]	24 hours	50 µg/m^3	150 µg/m^3	Same as primary standard
	Annual arithmetic mean	20 µg/m^3	–	
Fine particulate matter ($PM_{2.5}$)[f]	24 hours	–	35 µg/m^3	Same as primary standard
	Annual arithmetic mean	12 µg/m^3	12 µg/m^3	15 µg/m
Carbon monoxide (CO)	8 hours	9.0 ppm (10 mg/m^3)	9 ppm (10 mg/m^3)	None
	1 hour	20 ppm (23 mg/m^3)	35 ppm (40 mg/m^3)	
	8 hours (Lake Tahoe)	6 ppm (7 mg/m^3)	–	–
Nitrogen dioxide (NO_2)[g]	Annual arithmetic mean	0.030 ppm (57 µg/m^3)	0.053 ppm (100 µg/m^3)	Same as primary standard
	1 hour	0.18 ppm (339 µg/m^3)	100 ppb (188 µg/m^3)	None
Sulfur dioxide (SO_2)[h]	Annual Arithmetic Mean	–	0.030 ppm (for certain areas)[h]	–
	24 hours	0.04 ppm (105 µg/m^3)	0.14 ppm (for certain areas)[h]	–
	3 hours	—	–	0.5 ppm (1,300 µg/m^3)
	1 hour	0.25 ppm (655 µg/m^3)	75 ppb (196 µg/m^3)	–
Lead [i,j]	30-day average	1.5 µg/m^3	–	–
	Calendar quarter	–	1.5 µg/m^3 (for certain areas)[j]	Same as primary standard
	Rolling 3-month average	–	0.15 µg/m^3	
Visibility-reducing particles [k]	8 hours	See footnote j	No national standards	
Sulfates	24 hours	25 µg/m^3		
Hydrogen sulfide	1 hour	0.03 ppm (42 µg/m^3)		
Vinyl chloride [l]	24 hours	0.01 ppm (26 µg/m^3)		

Notes: mg/m^3 = milligrams per cubic meter; ppb = parts per billion; ppm = parts per million; $\mu g/m^3$ = micrograms per cubic meter

[a] California standards for ozone, carbon monoxide (except 8-hour Lake Tahoe), sulfur dioxide (1- and 24-hour), nitrogen dioxide, and particulate matter (PM_{10}, $PM_{2.5}$, and visibility-reducing particles), are values that are not to be exceeded. All others are not to be equaled or exceeded. California ambient air quality standards are listed in the Table of Standards in Section 70200 of Title 17 of the California Code of Regulations.

[b] National standards (other than ozone, particulate matter, and those based on annual arithmetic mean) are not to be exceeded more than once a year. The ozone standard is attained when the fourth highest 8-hour concentration measured at each site in a year, averaged over 3 years, is equal to or less than the standard. For PM_{10}, the 24-hour is attained when the expected number of days per calendar year with a 24-hour average concentration above 150 $\mu g/m^3$ is equal to or less than 1. For $PM_{2.5}$, the 24-hour standard is attained when 98% of the daily concentrations, averaged over 3 years, are equal to or less than the standards.

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

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

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

[f] On December 14, 2012, the national annual PM2.5 primary standard was lowered from 15 µg/m3 to 12.0 µg/m3. The existing national 24-hour PM2.5 standards (primary and secondary) were retained at 35 µg/m3, as was the annual secondary standard of 15 µg/m3. The existing 24-hour PM10 standards (primary and secondary) of 150 µg/m3 also were retained. The form of the annual primary and secondary standards is the annual mean, averaged over 3 years.

[g] To attain the 1-hour national standard, the 3-year average of the annual 98th percentile of the 1-hour daily maximum concentrations at each site must not exceed 100 ppb. California standards are in units of ppm. To directly compare the national 1-hour standard to the California standards the units can be converted from 100 ppb to 0.100 ppm.

[h] On June 2, 2010, a new 1-hour SO_2 standard was established and the existing 24-hour and annual primary standards were revoked. To attain the 1-hour national standard, the 3-year average of the annual 99th percentile of the 1-hour daily maximum concentrations at each site must not exceed 75 ppb. The 1971 SO_2 national standards (24-hour and annual) remain in effect until 1 year after an area is designated for the 2010 standard, except that in areas designated nonattainment for the 1971 standards, the 1971 standards remain in effect until implementation plans to attain or maintain the 2010 standards are approved. To directly compare the 1-hour national standard to the California standard, the units can be converted to ppm. In this case, the national standard of 75 ppb is identical of 0.075 ppm.

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

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

[k] In 1989, ARB converted both the general statewide 10-mile visibility standard and the Lake Tahoe 30-mile visibility standard to instrumental equivalents, which are “extinction of 0.23 per kilometer” and the “extinction of 0.07 per kilometer” for the statewide and Lake Tahoe Air Basin standards, respectively.

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

Source: ARB 2016

2.4 SAN DIEGO AIR BASIN EXISTING AIR QUALITY

Ambient air pollutant concentrations in the SDAB are measured at air quality monitoring stations operated by ARB and the San Diego Air Pollution Control District (SDAPCD). The closest and most representative SDAPCD air quality monitoring station to the project site is the San Diego monitoring station, located at 1110A Beardsley Street, San Diego, California. Table 2 presents the most recent data over the past 5 years from the San Diego monitoring station as summaries of the exceedances of standards and the highest pollutant levels recorded for years 2012 through 2016. These concentrations represent the existing, or baseline conditions, for the project, based on the most recent information that is available.

As shown in Table 2, ambient air concentrations of NO_2 at the San Diego monitoring station have not exceeded the NAAQS or CAAQS in the past 5 years. The 8-hour ozone concentration was exceeded in 2014. PM_{10} concentrations exceeded the CAAQS in 2015 and 2016, and $PM_{2.5}$ concentrations exceeded the NAAQS in 2012-2014.

Table 2
Summary of Air Quality Measurements Recorded at the
San Diego–1110 Beardsley Street Monitoring Station

Pollutant/Standard	2012	2013	2014	2015	2016
Ozone					
Days State 1-hour Standard Exceeded (0.09 ppm)	0	0	0	0	0
Days Federal 8-hour Standard Exceeded (0.075 ppm)[a]	0	0	0	0	0
Days State 8-hour Standard Exceeded (0.07 ppm)	0	0	2	0	0
Max. 1-hr (ppm)	0.071	0.063	0.093	0.089	0.072
Max. 8-hr (ppm)	0.065	0.053	0.072	0.067	0.061
Carbon Monoxide					
Days Federal 8-hour Standard Exceeded (35 ppm)	0	NA	NA	NA	NA
Days State 8-hour Standard Exceeded (20 ppm)	0	NA	NA	NA	NA
Max. 1-hr (ppm)	2.6	3.0	2.7	2.6	2.2
Max. 8-hr (ppm)	1.81	NA	NA	NA	NA
Nitrogen Dioxide					
Days Federal 1-hour Standard Exceeded (0.10 ppm)	0	0	0	0	0
Days State 1-hour Standard Exceeded (0.18 ppm)	0	0	0	0	0
Max 1-hr (ppm)	0.065	0.072	0.075	0.062	0.073
Annual Average (ppm)	0.013	0.014	0.013	0.014	NA
Sulfur Dioxide [b]					
Days State 24-hour Standard Exceeded (0.04 ppm)	NA	NA	NA	NA	NA
Max 24-hr (ppm)	NA	NA	NA	NA	NA
Annual Average (ppm)	NA	NA	NA	NA	NA

Pollutant/Standard	2012	2013	2014	2015	2016
PM_{10}					
Days State 24-hour Standard Exceeded (50 μg/m^3)	0	1	0	1	1
Days Federal 24-hour Standard Exceeded (150 μg/m^3)	0	0	0	0	0
Max. Daily—Federal (μg/m^3)	45	90	40.0	53.0	49.0
Max. Daily—State (μg/m^3)	47	92	41.0	54.0	51.0
Federal Annual Average (μg/m^3)	21.8	24.9	23.3	23.0	21.9
State Annual Average (μg/m^3)	22.2	25.4	23.8	23.2	NA
$PM_{2.5}$					
Days Federal 24-hour Standard Exceeded (35 μg/m^3)	1	1	1	0	0
Max. Daily—Federal (μg/m^3)	39.8	37.4	36.7	33.4	34.4
Max. Daily—State (μg/m^3)	39.8	37.4	37.2	44.9	34.4
Federal Annual Average (μg/m^3)	11.0	10.3	10.1	9.3	NA
State Annual Average (μg/m^3)	NA	10.4	10.2	10.2	NA

Source: ARB 2017
NA = not available; ppm = parts per million; μg/m^3 = micrograms per cubic meter
[a] On October 1, 2015, the national 8-hour ozone primary and secondary standards were lowered from 0.075 to 0.070 ppm.
[b] The SO_2 monitor was decommissioned on June 30, 2011.

2.5 SDAB ATTAINMENT STATUS

Both EPA and ARB use ambient air quality monitoring data to designate areas according to their attainment status for criteria air pollutants. The purpose of these designations is to identify the areas with air quality problems and initiate planning efforts for improvement. The three basic designation categories are nonattainment, attainment, and unclassified. An “attainment” designation for an area signifies that pollutant concentrations did not exceed the established standard. In most cases, areas designated or redesignated as attainment must develop and implement maintenance plans, which are designed to ensure continued compliance with the standard.

In contrast to attainment, a “nonattainment” designation indicates that a pollutant concentration has exceeded the established standard. Nonattainment may differ in severity. To identify the severity of the problem and the extent of planning and actions required to meet the standard, nonattainment areas are assigned a classification that is commensurate with the severity of their air quality problem (e.g., moderate, serious, severe, extreme).Finally, an unclassified designation indicates that insufficient data exist to determine attainment or nonattainment. In addition, the California designations include a subcategory of nonattainment-transitional, which is given to nonattainment areas that are progressing and nearing attainment.

As shown in Table 3, the SDAB currently meets NAAQS for all criteria air pollutants except ozone, and meets the CAAQS for all criteria air pollutants except ozone, PM_{10}, and $PM_{2.5}$. The SDAB currently falls under a federal maintenance plan for 8-hour ozone. The SDAB is currently classified as a state nonattainment area for ozone, PM_{10}, and $PM_{2.5}$.

Table 3
San Diego Air Basin Attainment Designations

Pollutant	State	Federal
Ozone (1-hour)	Nonattainment	Attainment*
Ozone (8-hour)	Nonattainment	Nonattainment
Carbon Monoxide	Attainment	Attainment
Nitrogen Dioxide	Attainment	Attainment
Sulfur Dioxide	Attainment	Attainment
PM_{10}	Nonattainment	Unclassified
$PM_{2.5}$	Nonattainment	Attainment
Sulfates	Attainment	N/A
Hydrogen Sulfide	Unclassified	N/A
Visibility Reducing Particles	Unclassified/Attainment	N/A
Lead	Attainment	Attainment

Notes:
* The federal ozone (1-hour) standard was in effect from 1979 through June 15, 2005. The revoked standard is referenced here because it was addressed in the State Implementation Plans.
N/A = not applicable; no standard.
Source: SDAPCD 2017; ARB 2017b

SECTION 3
METHODOLOGY

Construction

Construction-related activities are temporary, short-term sources of air emissions. Sources of construction-related air emissions include: fugitive dust from grading activities, construction equipment exhaust, construction-related trips by workers, delivery trucks, and material-hauling trucks; and construction-related power consumption.

The intensity of construction activity associated with the proposed Old Town CPU could be the same during each year. It is more likely, however, that some period of construction (and associated emissions) would be more intense than other periods due to changes in market conditions and according to the preferences of the project applicants. While neither the San Diego APCD nor the City of San Diego provides additional guidance on construction assumptions for plan level analyses, some air districts such as the Sacramento Metropolitan Air Quality Management District (SMAQMD) suggest that lead agencies conservatively assume that construction-generated emissions associated with the build-out of a plan should be evaluated assuming 25 percent of the total land uses would be constructed in a single year (SMAQMD 2016). Therefore, in order to illustrate the potential construction-related air quality impacts from projects that could occur under the proposed Old Town CPU, a conservative approach using the methodology recommended by the SMAQMD was used.

The proposed land uses at build-out of the Old Town CPU were compared to the existing land uses to determine the total land use that would be constructed over the life of the plan. Assuming 25 percent of those total land uses would be constructed in a single year results in construction of 32,545 square feet of commercial land uses, approximately 0.95-acre (43 dwelling units) of multi-family residential land uses, and approximately 16,300 square feet of hotel land uses. As the proposed Old Town CPU provides a long-range guide for the future physical development of the community through 2035, assuming 25 percent of total land uses would be constructed in a single year is a conservative approach.

Criteria air pollutant emissions were calculated using California Emissions Estimator Model (CalEEMod) version 2016.3.1. CalEEMod is a tool used to estimate air emissions resulting from land development projects based on California specific emission factors. CalEEMod includes default estimates on the required construction equipment, phases, and activities when project specific information is unavailable. The default estimates are based on surveys of typical construction projects which provide a basis for scaling equipment needs and schedule with a project's size. Emission estimates in CalEEMod are based on the duration of construction phases; construction equipment type, quantity, and usage; grading area; season; and ambient temperature, among other parameters.

Given that exhaust emissions from the construction equipment fleet are expected to decrease over time as stricter standards take effect, construction emissions were conservatively modeled to occur in 2018. As construction occurs in later years, advancements in engine technology, retrofits, and turnover in the equipment fleet are anticipated to result in lower levels of emissions. The analysis assumed that standard dust and emission control during grading operations would be implemented to reduce potential nuisance impacts and to ensure compliance with SDAPCD Rule 50 (Visible Emissions), Rule 51 (Nuisance), and

Rule 55 (Fugitive Dust Control). An architectural coating VOC limit of 50 grams per liter was used for residential interior coatings to reflect the requirements of San Diego APCD, Rule 67.

Operations

After construction, day-to-day activities associated with operation of the projects would generate emissions from a variety of sources. Operational emissions may be both direct and indirect emissions, and would be generated by area and mobile sources associated with the project. Sources of operational emissions associated with future projects developed under the proposed Old Town CPU and associated discretionary actions include traffic generated by the project and area source emissions from the use of natural gas, fireplaces, and consumer products.

Air pollutants generated by all land uses within the proposed Old Town CPU area were modeled based on average emissions from land use types. For the purposes of this analysis, it was assumed that the land use changes contained in the proposed Old Town CPU and associated discretionary actions would be fully constructed in 2035.

Generally, discretionary, program-level planning activities, such as general plans, community plans, specific plans, etc., are evaluated for consistency with the local air quality plan. In contrast, project-level thresholds are applied to individual project-specific approvals, such as a proposed development project. Considering that the adopted Community Plan projects have not yet been completed at the time of this analysis, an analysis of existing emissions compared with the proposed Old Town CPU improvements would not accurately disclose the impacts of the project. Rather, comparing future operations with the adopted Community Plan and the proposed Old Town CPU provides the best indicator of the project's long-term effect on emissions. Therefore, the analysis of the proposed Old Town CPU and associated discretionary actions is based on the net change in future emissions estimates derived from the adopted Community Plan.

As such, the analysis evaluates the potential for future development within the Old Town CPU area to result in, or contribute to, a violation of any air quality standard based on the net change in pollutant emissions that would result from the adopted Community Plan in the year 2035 compared to the emissions resulting from the proposed Old Town CPU and associated discretionary actions in the year 2035.

The operational emissions associated with the activities for the adopted Community Plan and the proposed Old Town CPU as associated discretionary actions in the year 2035 were quantified using CalEEMod. Regional mobile-source emissions were estimated based on CARB's Emission Factor model (EMFAC 2014) and the VMT for the area estimated in the TIS (Chen Ryan 2017). EMFAC 2014 can be used to develop emission factors based on the location, operational year, vehicle type, fuel type, and vehicle speed. EMFAC 2014 is the most current on-road mobile source emissions model at the time of this analysis. For this analysis, all traffic modeling was conducted for the 2035 build-out year. San Diego County was selected as the geographical location, which is the most specific geography to the project available in EMFAC. The VMT for the area provided in the TIS was weighted by the percentage of VMT for each vehicle type and multiplied by the aggregate speed emission factor to estimate daily emissions.

SECTION 4
EMISSION ESTIMATES

This section presents the estimated emissions during construction and operation from the proposed land uses under the CPU and associated discretionary actions.

Construction

Emissions summarized in Table 4 are the maximum daily emissions for each pollutant across different phases of construction. Although construction phases would not necessarily occur simultaneously, overlapping construction activities could result in the worst-case daily emissions. Additionally, the regulations at the federal, state, and local levels provide a framework for developing project-level air quality protection measures for future discretionary projects. The City's process for the evaluation of discretionary projects includes environmental review and documentation pursuant to CEQA, as well as an analysis of those projects for consistency with the goals, policies and recommendations of the General Plan. Ministerial projects would not require a formal environmental review. Generally, ministerial permits require a public official to determine only that the project conforms to applicable zoning and building code requirements, and that applicable fees have been paid. Ministerial projects are generally smaller in size than those requiring discretionary review and construction would be less intensive than the scenario evaluated in this analysis. Appendix A contains more detailed information on the emission estimates and results.

Table 4
Estimated Maximum Daily Unmitigated Construction Emissions
(pounds/day)

Pollutant	VOC	NO_x	CO	SO_2	PM_{10}	$PM_{2.5}$
2018	19.5	90.2	58.5	0.1	14.2	12.4

Source: Estimated by AECOM in 2017.
Notes: NO_X = oxides of nitrogen, SO_X = oxides of sulfur, CO = carbon monoxide, PM_{10} = particulate matter less than 10 micrometers in diameter, PM2.5 = particulate matter less than 2.5 micrometers in diameter, VOC/ROG = volatile organic compounds/reactive organic gases.

Operation

Table 5 presents the net change in daily operational emissions from build-out of the adopted Community Plan and the proposed CPU. Appendix A contains more detailed information on the emission estimates and results.

Table 5
Daily Operational Emissions for the Old Town CPU Area

Condition (2035)	Source	Pollutant (pounds per day)					
		VOC	NO_X	CO	SO_2	PM_{10}	$PM_{2.5}$
Adopted Community Plan	Area	65.9	8.5	47.6	0.1	0.9	0.9
	Energy	1.5	13.6	10.4	0.1	1.0	1.0
	Mobile	9.9	41.4	196.2	1.0	19.4	8.0
	Total	77.3	63.5	254.2	1.2	21.4	9.9
Proposed CPU and Associated Discretionary Actions	Area	62.5	9.5	53.2	0.1	1.0	1.0
	Energy	1.4	12.5	9.5	0.1	1.0	1.0
	Mobile	10.1	42.3	200.3	1.0	19.8	8.1
	Total	74.0	64.3	263.0	1.2	21.8	10.1
Net Change		**(3.30)**	**0.82**	**8.76**	**<0.1**	**0.4**	**0.2**

Source: Estimated by AECOM in 2017.
Note: Totals may not add due to rounding. NO_X = oxides of nitrogen, SO_X = oxides of sulfur, CO = carbon monoxide, PM_{10} = particulate matter less than 10 micrometers in diameter, PM2.5 = particulate matter less than 2.5 micrometers in diameter, VOC/ROG = volatile organic compounds/reactive organic gases.

SECTION 5
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APPENDIX A
CALEEMOD MODELING DATA

Old Town CPU Alt 3 Construction

San Diego County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Hotel	21.00	Room	0.80	16,299.75	0
Apartments Low Rise	43.00	Dwelling Unit	0.95	43,000.00	123
Regional Shopping Center	32.55	1000sqft	3.20	32,545.00	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	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

Old Town CPU Alt 3 Construction - San Diego County, Winter

Project Characteristics -

Land Use - Assumption: 25% of net change in total land uses constructed in a single year. Tourist attraction acreage accounted for in hotel land use.

Construction Phase - Default construction schedule scaled down to occur in 1 year.

Grading - Default.

Vehicle Trips - Construction run only.

Woodstoves - Construction only run.

Area Coating - Construction run only.

Energy Use - Construction only run.

Water And Wastewater - Construction only run.

Solid Waste - Construction only run.

Construction Off-road Equipment Mitigation -

Architectural Coating - VOC limit of 50 g/L per SDAPCD Rule 67.

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Residential_Interior	250.00	50.00
tblAreaCoating	Area_Nonresidential_Exterior	24422	0
tblAreaCoating	Area_Nonresidential_Interior	73267	0
tblAreaCoating	Area_Residential_Exterior	29025	0
tblAreaCoating	Area_Residential_Interior	87075	0
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	40	0
tblConstructionPhase	NumDays	18.00	232.00
tblConstructionPhase	NumDays	230.00	202.00
tblConstructionPhase	NumDays	8.00	20.00
tblConstructionPhase	NumDays	18.00	15.00
tblConstructionPhase	NumDays	5.00	8.00
tblConstructionPhase	PhaseEndDate	10/29/2019	12/28/2018
tblConstructionPhase	PhaseStartDate	12/8/2018	2/8/2018

tblEnergyUse	NT24E	3,418.36	0.00
tblEnergyUse	NT24E	3.67	0.00
tblEnergyUse	NT24E	3.16	0.00
tblEnergyUse	T24E	307.62	0.00
tblEnergyUse	T24E	5.01	0.00
tblEnergyUse	T24E	3.34	0.00
tblFireplaces	NumberGas	23.65	0.00
tblFireplaces	NumberWood	15.05	0.00
tblGrading	AcresOfGrading	10.00	4.00
tblLandUse	BuildingSpaceSquareFeet	30,492.00	16,299.75
tblLandUse	BuildingSpaceSquareFeet	32,550.00	32,545.00
tblLandUse	LandUseSquareFeet	30,492.00	16,299.75
tblLandUse	LandUseSquareFeet	32,550.00	32,545.00
tblLandUse	LotAcreage	0.70	0.80
tblLandUse	LotAcreage	2.69	0.95
tblLandUse	LotAcreage	0.75	3.20
tblProjectCharacteristics	OperationalYear	2018	2020
tblSolidWaste	SolidWasteGenerationRate	19.78	0.00
tblSolidWaste	SolidWasteGenerationRate	11.50	0.00
tblSolidWaste	SolidWasteGenerationRate	34.18	0.00
tblVehicleTrips	ST_TR	7.16	0.00
tblVehicleTrips	ST_TR	8.19	0.00
tblVehicleTrips	ST_TR	49.97	0.00
tblVehicleTrips	SU_TR	6.07	0.00
tblVehicleTrips	SU_TR	5.95	0.00
tblVehicleTrips	SU_TR	25.24	0.00
tblVehicleTrips	WD_TR	6.59	0.00

tblVehicleTrips	WD_TR	8.17	0.00
tblVehicleTrips	WD_TR	42.70	0.00
tblWater	IndoorWaterUseRate	2,801,623.10	0.00
tblWater	IndoorWaterUseRate	532,702.17	0.00
tblWater	IndoorWaterUseRate	2,411,060.57	0.00
tblWater	OutdoorWaterUseRate	1,766,240.65	0.00
tblWater	OutdoorWaterUseRate	59,189.13	0.00
tblWater	OutdoorWaterUseRate	1,477,746.80	0.00
tblWoodstoves	NumberCatalytic	2.15	0.00
tblWoodstoves	NumberNoncatalytic	2.15	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					
2018	10.5256	48.2607	23.0608	0.0396	18.2141	2.5780	20.7921	9.9699	2.3717	12.3416	0.0000	3,983.2428	3,983.2428	1.1981	0.0000	4,013.1951
Maximum	**10.5256**	**48.2607**	**23.0608**	**0.0396**	**18.2141**	**2.5780**	**20.7921**	**9.9699**	**2.3717**	**12.3416**	**0.0000**	**3,983.2428**	**3,983.2428**	**1.1981**	**0.0000**	**4,013.1951**

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	10.5256	48.2607	23.0608	0.0396	8.2777	2.5780	10.8557	4.5080	2.3717	6.8798	0.0000	3,983.2428	3,983.2428	1.1981	0.0000	4,013.1951
Maximum	**10.5256**	**48.2607**	**23.0608**	**0.0396**	**8.2777**	**2.5780**	**10.8557**	**4.5080**	**2.3717**	**6.8798**	**0.0000**	**3,983.2428**	**3,983.2428**	**1.1981**	**0.0000**	**4,013.1951**

	ROG	NOx	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**	**54.55**	**0.00**	**47.79**	**54.78**	**0.00**	**44.26**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	2.0744	0.0412	3.5649	1.9000e-004		0.0196	0.0196		0.0196	0.0196	0.0000	6.3995	6.3995	6.2600e-003	0.0000	6.5560
Energy	0.0486	0.4319	0.2983	2.6500e-003		0.0336	0.0336		0.0336	0.0336		530.2613	530.2613	0.0102	9.7200e-003	533.4123
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	**2.1230**	**0.4732**	**3.8631**	**2.8400e-003**	**0.0000**	**0.0532**	**0.0532**	**0.0000**	**0.0532**	**0.0532**	**0.0000**	**536.6607**	**536.6607**	**0.0164**	**9.7200e-003**	**539.9683**

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	2.0744	0.0412	3.5649	1.9000e-004		0.0196	0.0196		0.0196	0.0196	0.0000	6.3995	6.3995	6.2600e-003	0.0000	6.5560
Energy	0.0486	0.4319	0.2983	2.6500e-003		0.0336	0.0336		0.0336	0.0336		530.2613	530.2613	0.0102	9.7200e-003	533.4123
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	**2.1230**	**0.4732**	**3.8631**	**2.8400e-003**	**0.0000**	**0.0532**	**0.0532**	**0.0000**	**0.0532**	**0.0532**	**0.0000**	**536.6607**	**536.6607**	**0.0164**	**9.7200e-003**	**539.9683**

	ROG	NOx	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	Site Preparation	Site Preparation	1/1/2018	1/10/2018	5	8	
2	Grading	Grading	1/11/2018	2/7/2018	5	20	
3	Building Construction	Building Construction	2/8/2018	11/16/2018	5	202	
4	Paving	Paving	11/17/2018	12/7/2018	5	15	
5	Architectural Coating	Architectural Coating	2/8/2018	12/28/2018	5	232	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 4

Acres of Paving: 0

Residential Indoor: 87,075; Residential Outdoor: 29,025; Non-Residential Indoor: 73,267; Non-Residential Outdoor: 24,422; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Old Town CPU Alt 3 Construction - San Diego County, Winter

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	1	6.00	78	0.48
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Grading	Excavators	1	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Paving	Cement and Mortar Mixers	2	6.00	9	0.56
Paving	Pavers	1	8.00	130	0.42
Paving	Paving Equipment	2	6.00	132	0.36
Paving	Rollers	2	6.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Architectural Coating	1	10.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	48.00	13.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	8	20.00	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

Water Exposed Area

3.2 Site Preparation - 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					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	4.5627	48.1988	22.4763	0.0380		2.5769	2.5769		2.3708	2.3708		3,831.6239	3,831.6239	1.1928		3,861.4448
Total	**4.5627**	**48.1988**	**22.4763**	**0.0380**	**18.0663**	**2.5769**	**20.6432**	**9.9307**	**2.3708**	**12.3014**		**3,831.6239**	**3,831.6239**	**1.1928**		**3,861.4448**

3.2 Site Preparation - 2018

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	0.0866	0.0620	0.5845	1.5200e-003	0.1479	1.0600e-003	0.1489	0.0392	9.8000e-004	0.0402		151.6189	151.6189	5.2500e-003		151.7503
Total	**0.0866**	**0.0620**	**0.5845**	**1.5200e-003**	**0.1479**	**1.0600e-003**	**0.1489**	**0.0392**	**9.8000e-004**	**0.0402**		**151.6189**	**151.6189**	**5.2500e-003**		**151.7503**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					8.1298	0.0000	8.1298	4.4688	0.0000	4.4688			0.0000			0.0000
Off-Road	4.5627	48.1988	22.4763	0.0380		2.5769	2.5769		2.3708	2.3708	0.0000	3,831.6239	3,831.6239	1.1928		3,861.4448
Total	**4.5627**	**48.1988**	**22.4763**	**0.0380**	**8.1298**	**2.5769**	**10.7067**	**4.4688**	**2.3708**	**6.8396**	**0.0000**	**3,831.6239**	**3,831.6239**	**1.1928**		**3,861.4448**

3.2 Site Preparation - 2018

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	0.0866	0.0620	0.5845	1.5200e-003	0.1479	1.0600e-003	0.1489	0.0392	9.8000e-004	0.0402		151.6189	151.6189	5.2500e-003		151.7503
Total	**0.0866**	**0.0620**	**0.5845**	**1.5200e-003**	**0.1479**	**1.0600e-003**	**0.1489**	**0.0392**	**9.8000e-004**	**0.0402**		**151.6189**	**151.6189**	**5.2500e-003**		**151.7503**

3.3 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					6.2342	0.0000	6.2342	3.3331	0.0000	3.3331			0.0000			0.0000
Off-Road	2.7733	30.6725	16.5770	0.0297		1.5513	1.5513		1.4272	1.4272		2,988.0216	2,988.0216	0.9302		3,011.2769
Total	**2.7733**	**30.6725**	**16.5770**	**0.0297**	**6.2342**	**1.5513**	**7.7855**	**3.3331**	**1.4272**	**4.7603**		**2,988.0216**	**2,988.0216**	**0.9302**		**3,011.2769**

3.3 Grading - 2018

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	0.0721	0.0516	0.4871	1.2700e-003	0.1232	8.9000e-004	0.1241	0.0327	8.2000e-004	0.0335		126.3491	126.3491	4.3800e-003		126.4586
Total	**0.0721**	**0.0516**	**0.4871**	**1.2700e-003**	**0.1232**	**8.9000e-004**	**0.1241**	**0.0327**	**8.2000e-004**	**0.0335**		**126.3491**	**126.3491**	**4.3800e-003**		**126.4586**

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					2.8054	0.0000	2.8054	1.4999	0.0000	1.4999			0.0000			0.0000
Off-Road	2.7733	30.6725	16.5770	0.0297		1.5513	1.5513		1.4272	1.4272	0.0000	2,988.0216	2,988.0216	0.9302		3,011.2769
Total	**2.7733**	**30.6725**	**16.5770**	**0.0297**	**2.8054**	**1.5513**	**4.3567**	**1.4999**	**1.4272**	**2.9271**	**0.0000**	**2,988.0216**	**2,988.0216**	**0.9302**		**3,011.2769**

3.3 Grading - 2018

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	0.0721	0.0516	0.4871	1.2700e-003	0.1232	8.9000e-004	0.1241	0.0327	8.2000e-004	0.0335		126.3491	126.3491	4.3800e-003		126.4586
Total	**0.0721**	**0.0516**	**0.4871**	**1.2700e-003**	**0.1232**	**8.9000e-004**	**0.1241**	**0.0327**	**8.2000e-004**	**0.0335**		**126.3491**	**126.3491**	**4.3800e-003**		**126.4586**

3.4 Building Construction - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.6795	23.3900	17.5804	0.0269		1.4999	1.4999		1.4099	1.4099		2,620.9351	2,620.9351	0.6421		2,636.9883
Total	**2.6795**	**23.3900**	**17.5804**	**0.0269**		**1.4999**	**1.4999**		**1.4099**	**1.4099**		**2,620.9351**	**2,620.9351**	**0.6421**		**2,636.9883**

3.4 Building Construction - 2018

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	0.0699	1.7157	0.5018	3.5300e-003	0.0880	0.0136	0.1016	0.0253	0.0130	0.0384		377.9073	377.9073	0.0327		378.7249
Worker	0.2308	0.1653	1.5587	4.0600e-003	0.3943	2.8400e-003	0.3972	0.1046	2.6200e-003	0.1072		404.3171	404.3171	0.0140		404.6674
Total	**0.3007**	**1.8810**	**2.0605**	**7.5900e-003**	**0.4823**	**0.0165**	**0.4988**	**0.1299**	**0.0157**	**0.1456**		**782.2244**	**782.2244**	**0.0467**		**783.3922**

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	2.6795	23.3900	17.5804	0.0269		1.4999	1.4999		1.4099	1.4099	0.0000	2,620.9351	2,620.9351	0.6421		2,636.9883
Total	**2.6795**	**23.3900**	**17.5804**	**0.0269**		**1.4999**	**1.4999**		**1.4099**	**1.4099**	**0.0000**	**2,620.9351**	**2,620.9351**	**0.6421**		**2,636.9883**

3.4 Building Construction - 2018

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	0.0699	1.7157	0.5018	3.5300e-003	0.0880	0.0136	0.1016	0.0253	0.0130	0.0384		377.9073	377.9073	0.0327		378.7249
Worker	0.2308	0.1653	1.5587	4.0600e-003	0.3943	2.8400e-003	0.3972	0.1046	2.6200e-003	0.1072		404.3171	404.3171	0.0140		404.6674
Total	**0.3007**	**1.8810**	**2.0605**	**7.5900e-003**	**0.4823**	**0.0165**	**0.4988**	**0.1299**	**0.0157**	**0.1456**		**782.2244**	**782.2244**	**0.0467**		**783.3922**

3.5 Paving - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.4239	14.5184	12.4333	0.0189		0.8370	0.8370		0.7718	0.7718		1,872.5505	1,872.5505	0.5672		1,886.7312
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**1.4239**	**14.5184**	**12.4333**	**0.0189**		**0.8370**	**0.8370**		**0.7718**	**0.7718**		**1,872.5505**	**1,872.5505**	**0.5672**		**1,886.7312**

3.5 Paving - 2018

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	0.0962	0.0689	0.6495	1.6900e-003	0.1643	1.1800e-003	0.1655	0.0436	1.0900e-003	0.0447		168.4655	168.4655	5.8400e-003		168.6114
Total	**0.0962**	**0.0689**	**0.6495**	**1.6900e-003**	**0.1643**	**1.1800e-003**	**0.1655**	**0.0436**	**1.0900e-003**	**0.0447**		**168.4655**	**168.4655**	**5.8400e-003**		**168.6114**

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	1.4239	14.5184	12.4333	0.0189		0.8370	0.8370		0.7718	0.7718	0.0000	1,872.5505	1,872.5505	0.5672		1,886.7312
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**1.4239**	**14.5184**	**12.4333**	**0.0189**		**0.8370**	**0.8370**		**0.7718**	**0.7718**	**0.0000**	**1,872.5505**	**1,872.5505**	**0.5672**		**1,886.7312**

3.5 Paving - 2018

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	0.0962	0.0689	0.6495	1.6900e-003	0.1643	1.1800e-003	0.1655	0.0436	1.0900e-003	0.0447		168.4655	168.4655	5.8400e-003		168.6114
Total	**0.0962**	**0.0689**	**0.6495**	**1.6900e-003**	**0.1643**	**1.1800e-003**	**0.1655**	**0.0436**	**1.0900e-003**	**0.0447**		**168.4655**	**168.4655**	**5.8400e-003**		**168.6114**

3.6 Architectural Coating - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	7.1987					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2986	2.0058	1.8542	2.9700e-003		0.1506	0.1506		0.1506	0.1506		281.4485	281.4485	0.0267		282.1171
Total	**7.4973**	**2.0058**	**1.8542**	**2.9700e-003**		**0.1506**	**0.1506**		**0.1506**	**0.1506**		**281.4485**	**281.4485**	**0.0267**		**282.1171**

3.6 Architectural Coating - 2018

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	0.0481	0.0344	0.3247	8.5000e-004	0.0822	5.9000e-004	0.0827	0.0218	5.5000e-004	0.0223		84.2327	84.2327	2.9200e-003		84.3057
Total	**0.0481**	**0.0344**	**0.3247**	**8.5000e-004**	**0.0822**	**5.9000e-004**	**0.0827**	**0.0218**	**5.5000e-004**	**0.0223**		**84.2327**	**84.2327**	**2.9200e-003**		**84.3057**

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	7.1987					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2986	2.0058	1.8542	2.9700e-003		0.1506	0.1506		0.1506	0.1506	0.0000	281.4485	281.4485	0.0267		282.1171
Total	**7.4973**	**2.0058**	**1.8542**	**2.9700e-003**		**0.1506**	**0.1506**		**0.1506**	**0.1506**	**0.0000**	**281.4485**	**281.4485**	**0.0267**		**282.1171**

3.6 Architectural Coating - 2018

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	0.0481	0.0344	0.3247	8.5000e-004	0.0822	5.9000e-004	0.0827	0.0218	5.5000e-004	0.0223		84.2327	84.2327	2.9200e-003		84.3057
Total	**0.0481**	**0.0344**	**0.3247**	**8.5000e-004**	**0.0822**	**5.9000e-004**	**0.0827**	**0.0218**	**5.5000e-004**	**0.0223**		**84.2327**	**84.2327**	**2.9200e-003**		**84.3057**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

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

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Low Rise	0.00	0.00	0.00		
Hotel	0.00	0.00	0.00		
Regional Shopping Center	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments Low Rise	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
Regional Shopping Center	9.50	7.30	7.30	16.30	64.70	19.00	54	35	11

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Hotel	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
Apartments Low Rise	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
Regional Shopping Center	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	0.0486	0.4319	0.2983	2.6500e-003		0.0336	0.0336		0.0336	0.0336		530.2613	530.2613	0.0102	9.7200e-003	533.4123
NaturalGas Unmitigated	0.0486	0.4319	0.2983	2.6500e-003		0.0336	0.0336		0.0336	0.0336		530.2613	530.2613	0.0102	9.7200e-003	533.4123

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					
Apartments Low Rise	1690.15	0.0182	0.1558	0.0663	9.9000e-004		0.0126	0.0126		0.0126	0.0126		198.8417	198.8417	3.8100e-003	3.6500e-003	200.0233
Hotel	2617.34	0.0282	0.2566	0.2156	1.5400e-003		0.0195	0.0195		0.0195	0.0195		307.9221	307.9221	5.9000e-003	5.6500e-003	309.7519
Regional Shopping Center	199.728	2.1500e-003	0.0196	0.0165	1.2000e-004		1.4900e-003	1.4900e-003		1.4900e-003	1.4900e-003		23.4974	23.4974	4.5000e-004	4.3000e-004	23.6371
Total		**0.0486**	**0.4319**	**0.2983**	**2.6500e-003**		**0.0336**	**0.0336**		**0.0336**	**0.0336**		**530.2613**	**530.2613**	**0.0102**	**9.7300e-003**	**533.4123**

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					
Apartments Low Rise	1.69015	0.0182	0.1558	0.0663	9.9000e-004		0.0126	0.0126		0.0126	0.0126		198.8417	198.8417	3.8100e-003	3.6500e-003	200.0233
Hotel	2.61734	0.0282	0.2566	0.2156	1.5400e-003		0.0195	0.0195		0.0195	0.0195		307.9221	307.9221	5.9000e-003	5.6500e-003	309.7519
Regional Shopping Center	0.199728	2.1500e-003	0.0196	0.0165	1.2000e-004		1.4900e-003	1.4900e-003		1.4900e-003	1.4900e-003		23.4974	23.4974	4.5000e-004	4.3000e-004	23.6371
Total		**0.0486**	**0.4319**	**0.2983**	**2.6500e-003**		**0.0336**	**0.0336**		**0.0336**	**0.0336**		**530.2613**	**530.2613**	**0.0102**	**9.7300e-003**	**533.4123**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	2.0744	0.0412	3.5649	1.9000e-004		0.0196	0.0196		0.0196	0.0196	0.0000	6.3995	6.3995	6.2600e-003	0.0000	6.5560
Unmitigated	2.0744	0.0412	3.5649	1.9000e-004		0.0196	0.0196		0.0196	0.0196	0.0000	6.3995	6.3995	6.2600e-003	0.0000	6.5560

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	1.9655					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.1089	0.0412	3.5649	1.9000e-004		0.0196	0.0196		0.0196	0.0196		6.3995	6.3995	6.2600e-003		6.5560
Total	**2.0744**	**0.0412**	**3.5649**	**1.9000e-004**		**0.0196**	**0.0196**		**0.0196**	**0.0196**	**0.0000**	**6.3995**	**6.3995**	**6.2600e-003**	**0.0000**	**6.5560**

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	1.9655					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.1089	0.0412	3.5649	1.9000e-004		0.0196	0.0196		0.0196	0.0196		6.3995	6.3995	6.2600e-003		6.5560
Total	**2.0744**	**0.0412**	**3.5649**	**1.9000e-004**		**0.0196**	**0.0196**		**0.0196**	**0.0196**	**0.0000**	**6.3995**	**6.3995**	**6.2600e-003**	**0.0000**	**6.5560**

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

Old Town CPU Alt. 3 Operations

San Diego County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	565.73	1000sqft	23.90	565,730.00	0
Government Office Building	45.62	1000sqft	2.40	45,620.00	0
Industrial Park	3.88	1000sqft	5.80	3,882.00	0
Unrefrigerated Warehouse-No Rail	20.00	1000sqft	0.40	20,000.00	0
Other Asphalt Surfaces	96.40	Acre	96.40	0.00	0
City Park	66.10	Acre	66.10	7,114.00	0
Hotel	499.00	Room	33.07	409,604.00	0
Apartments Low Rise	520.00	Dwelling Unit	15.80	520,000.00	1487
Single Family Housing	79.00	Dwelling Unit	5.00	142,200.00	226
Regional Shopping Center	399.40	1000sqft	25.80	399,400.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.6	**Precipitation Freq (Days)**	40
Climate Zone	13			**Operational Year**	2035
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

Old Town CPU Alt. 3 Operations - San Diego County, Winter

Project Characteristics - OY 2035

Land Use - Land uses associated with build out of proposed CPU. Tourist attractions included in hotel land use. Industrial land use includes utilities and transit center.

Construction Phase - Operations only run.

Off-road Equipment - Operations only run.

Off-road Equipment - Operations only run.

Off-road Equipment - Operations only run.

Trips and VMT - Operations only run.

Grading - Operations only run.

Architectural Coating - Operations only run.

Vehicle Trips - Mobile sources calculated separately.

Woodstoves - Assumes no woodstoves or wood fireplaces.

Energy Use -

Water And Wastewater -

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Nonresidential_Exterior	722,118.00	0.00
tblArchitecturalCoating	ConstArea_Nonresidential_Interior	2,166,354.00	0.00
tblArchitecturalCoating	ConstArea_Residential_Exterior	446,985.00	0.00
tblArchitecturalCoating	ConstArea_Residential_Interior	1,340,955.00	0.00
tblFireplaces	NumberGas	286.00	468.00
tblFireplaces	NumberGas	43.45	71.00
tblFireplaces	NumberWood	182.00	0.00
tblFireplaces	NumberWood	27.65	0.00
tblLandUse	BuildingSpaceSquareFeet	3,880.00	3,882.00
tblLandUse	BuildingSpaceSquareFeet	4,199,184.00	0.00
tblLandUse	BuildingSpaceSquareFeet	724,548.00	409,604.00
tblLandUse	GreenSpaceSquareFeet	2,879,316.00	7,114.00

Old Town CPU Alt. 3 Operations - San Diego County, Winter

tblLandUse	LandUseSquareFeet	3,880.00	3,882.00
tblLandUse	LandUseSquareFeet	4,199,184.00	0.00
tblLandUse	LandUseSquareFeet	2,879,316.00	7,114.00
tblLandUse	LandUseSquareFeet	724,548.00	409,604.00
tblLandUse	LotAcreage	12.99	23.90
tblLandUse	LotAcreage	1.05	2.40
tblLandUse	LotAcreage	0.09	5.80
tblLandUse	LotAcreage	0.46	0.40
tblLandUse	LotAcreage	16.63	33.07
tblLandUse	LotAcreage	32.50	15.80
tblLandUse	LotAcreage	25.65	5.00
tblLandUse	LotAcreage	9.17	25.80
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	0.00
tblOffRoadEquipment	UsageHours	6.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblProjectCharacteristics	OperationalYear	2018	2035
tblTripsAndVMT	WorkerTripNumber	182.00	0.00
tblVehicleTrips	ST_TR	7.16	0.00
tblVehicleTrips	ST_TR	22.75	0.00
tblVehicleTrips	ST_TR	2.46	0.00
tblVehicleTrips	ST_TR	8.19	0.00
tblVehicleTrips	ST_TR	2.49	0.00
tblVehicleTrips	ST_TR	49.97	0.00
tblVehicleTrips	ST_TR	9.91	0.00

tblVehicleTrips	ST_TR	1.68	0.00
tblVehicleTrips	SU_TR	6.07	0.00
tblVehicleTrips	SU_TR	16.74	0.00
tblVehicleTrips	SU_TR	1.05	0.00
tblVehicleTrips	SU_TR	5.95	0.00
tblVehicleTrips	SU_TR	0.73	0.00
tblVehicleTrips	SU_TR	25.24	0.00
tblVehicleTrips	SU_TR	8.62	0.00
tblVehicleTrips	SU_TR	1.68	0.00
tblVehicleTrips	WD_TR	6.59	0.00
tblVehicleTrips	WD_TR	1.89	0.00
tblVehicleTrips	WD_TR	11.03	0.00
tblVehicleTrips	WD_TR	68.93	0.00
tblVehicleTrips	WD_TR	8.17	0.00
tblVehicleTrips	WD_TR	6.83	0.00
tblVehicleTrips	WD_TR	42.70	0.00
tblVehicleTrips	WD_TR	9.52	0.00
tblVehicleTrips	WD_TR	1.68	0.00
tblWoodstoves	NumberCatalytic	26.00	0.00
tblWoodstoves	NumberCatalytic	3.95	0.00
tblWoodstoves	NumberNoncatalytic	26.00	0.00
tblWoodstoves	NumberNoncatalytic	3.95	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					
2017	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2018	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2019	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Maximum	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2017	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2018	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2019	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Maximum	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Old Town CPU Alt. 3 Operations - San Diego County, Winter

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	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	62.4585	9.5108	53.2215	0.0597		0.9976	0.9976		0.9976	0.9976	0.0000	11,503.4717	11,503.4717	0.3044	0.2093	11,573.4416
Energy	1.3921	12.4992	9.4831	0.0759		0.9618	0.9618		0.9618	0.9618		15,186.8086	15,186.8086	0.2911	0.2784	15,277.0562
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	**63.8507**	**22.0099**	**62.7045**	**0.1356**	**0.0000**	**1.9594**	**1.9594**	**0.0000**	**1.9594**	**1.9594**	**0.0000**	**26,690.2803**	**26,690.2803**	**0.5955**	**0.4877**	**26,850.4979**

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	62.4585	9.5108	53.2215	0.0597		0.9976	0.9976		0.9976	0.9976	0.0000	11,503.4717	11,503.4717	0.3044	0.2093	11,573.4416
Energy	1.3921	12.4992	9.4831	0.0759		0.9618	0.9618		0.9618	0.9618		15,186.8086	15,186.8086	0.2911	0.2784	15,277.0562
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	**63.8507**	**22.0099**	**62.7045**	**0.1356**	**0.0000**	**1.9594**	**1.9594**	**0.0000**	**1.9594**	**1.9594**	**0.0000**	**26,690.2803**	**26,690.2803**	**0.5955**	**0.4877**	**26,850.4979**

	ROG	NOx	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	Site Preparation	Site Preparation	6/13/2017	2/19/2018	5	180	
2	Architectural Coating	Architectural Coating	2/20/2018	5/27/2019	5	330	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 96.4

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

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Rubber Tired Dozers	0	0.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	0	0.00	97	0.37
Architectural Coating	Air Compressors	0	0.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	0	0.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	0	0.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Site Preparation - 2017

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
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**		**0.0000**

3.2 Site Preparation - 2017

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**		**0.0000**

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
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**

3.2 Site Preparation - 2017

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**		**0.0000**

3.2 Site Preparation - 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					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
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**

3.2 Site Preparation - 2018

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**		**0.0000**

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
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**

3.2 Site Preparation - 2018

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**		**0.0000**

3.3 Architectural Coating - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	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
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**

3.3 Architectural Coating - 2018

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**		**0.0000**

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
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000
Total	**0.0000**	**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 Architectural Coating - 2018

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**		**0.0000**

3.3 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	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
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**

3.3 Architectural Coating - 2019

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**		**0.0000**

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
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000
Total	**0.0000**	**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 Architectural Coating - 2019

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**		**0.0000**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

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

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Low Rise	0.00	0.00	0.00		
City Park	0.00	0.00	0.00		
General Office Building	0.00	0.00	0.00		
Government Office Building	0.00	0.00	0.00		
Hotel	0.00	0.00	0.00		
Industrial Park	0.00	0.00	0.00		
Other Asphalt Surfaces	0.00	0.00	0.00		
Regional Shopping Center	0.00	0.00	0.00		
Single Family Housing	0.00	0.00	0.00		
Unrefrigerated Warehouse-No Rail	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments Low Rise	10.80	7.30	7.50	41.60	18.80	39.60	86	11	3
City Park	9.50	7.30	7.30	33.00	48.00	19.00	66	28	6
General Office Building	9.50	7.30	7.30	33.00	48.00	19.00	77	19	4
Government Office Building	9.50	7.30	7.30	33.00	62.00	5.00	50	34	16
Hotel	9.50	7.30	7.30	19.40	61.60	19.00	58	38	4
Industrial Park	9.50	7.30	7.30	59.00	28.00	13.00	79	19	2
Other Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Regional Shopping Center	9.50	7.30	7.30	16.30	64.70	19.00	54	35	11
Single Family Housing	10.80	7.30	7.50	41.60	18.80	39.60	86	11	3
Unrefrigerated Warehouse-No	9.50	7.30	7.30	59.00	0.00	41.00	92	5	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
General Office Building	0.617626	0.036451	0.176904	0.096837	0.011340	0.005282	0.018425	0.026503	0.001944	0.001632	0.005548	0.000800	0.000709
Government Office Building	0.617626	0.036451	0.176904	0.096837	0.011340	0.005282	0.018425	0.026503	0.001944	0.001632	0.005548	0.000800	0.000709
Industrial Park	0.617626	0.036451	0.176904	0.096837	0.011340	0.005282	0.018425	0.026503	0.001944	0.001632	0.005548	0.000800	0.000709
Unrefrigerated Warehouse-No Rail	0.617626	0.036451	0.176904	0.096837	0.011340	0.005282	0.018425	0.026503	0.001944	0.001632	0.005548	0.000800	0.000709
Other Asphalt Surfaces	0.617626	0.036451	0.176904	0.096837	0.011340	0.005282	0.018425	0.026503	0.001944	0.001632	0.005548	0.000800	0.000709
City Park	0.617626	0.036451	0.176904	0.096837	0.011340	0.005282	0.018425	0.026503	0.001944	0.001632	0.005548	0.000800	0.000709
Hotel	0.617626	0.036451	0.176904	0.096837	0.011340	0.005282	0.018425	0.026503	0.001944	0.001632	0.005548	0.000800	0.000709
Apartments Low Rise	0.617626	0.036451	0.176904	0.096837	0.011340	0.005282	0.018425	0.026503	0.001944	0.001632	0.005548	0.000800	0.000709
Single Family Housing	0.617626	0.036451	0.176904	0.096837	0.011340	0.005282	0.018425	0.026503	0.001944	0.001632	0.005548	0.000800	0.000709
Regional Shopping Center	0.617626	0.036451	0.176904	0.096837	0.011340	0.005282	0.018425	0.026503	0.001944	0.001632	0.005548	0.000800	0.000709

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Old Town CPU Alt. 3 Operations - San Diego County, Winter

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	1.3921	12.4992	9.4831	0.0759		0.9618	0.9618		0.9618	0.9618		15,186.8086	15,186.8086	0.2911	0.2784	15,277.0562
NaturalGas Unmitigated	1.3921	12.4992	9.4831	0.0759		0.9618	0.9618		0.9618	0.9618		15,186.8086	15,186.8086	0.2911	0.2784	15,277.0562

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					
Apartments Low Rise	20439.1	0.2204	1.8836	0.8015	0.0120		0.1523	0.1523		0.1523	0.1523		2,404.5973	2,404.5973	0.0461	0.0441	2,418.8866
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
General Office Building	31417.4	0.3388	3.0801	2.5873	0.0185		0.2341	0.2341		0.2341	0.2341		3,696.1635	3,696.1635	0.0708	0.0678	3,718.1279
Government Office Building	2533.47	0.0273	0.2484	0.2086	1.4900e-003		0.0189	0.0189		0.0189	0.0189		298.0556	298.0556	5.7100e-003	5.4600e-003	299.8268
Hotel	65772.3	0.7093	6.4483	5.4165	0.0387		0.4901	0.4901		0.4901	0.4901		7,737.9180	7,737.9180	0.1483	0.1419	7,783.9005
Industrial Park	215.584	2.3200e-003	0.0211	0.0178	1.3000e-004		1.6100e-003	1.6100e-003		1.6100e-003	1.6100e-003		25.3628	25.3628	4.9000e-004	4.6000e-004	25.5135
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Regional Shopping Center	2451.11	0.0264	0.2403	0.2019	1.4400e-003		0.0183	0.0183		0.0183	0.0183		288.3662	288.3662	5.5300e-003	5.2900e-003	290.0798
Single Family Housing	6166.88	0.0665	0.5683	0.2418	3.6300e-003		0.0460	0.0460		0.0460	0.0460		725.5154	725.5154	0.0139	0.0133	729.8268
Unrefrigerated Warehouse-No Rail	92.0548	9.9000e-004	9.0200e-003	7.5800e-003	5.0000e-005		6.9000e-004	6.9000e-004		6.9000e-004	6.9000e-004		10.8300	10.8300	2.1000e-004	2.0000e-004	10.8943
Total		**1.3921**	**12.4992**	**9.4831**	**0.0759**		**0.9618**	**0.9618**		**0.9618**	**0.9618**		**15,186.8086**	**15,186.8086**	**0.2911**	**0.2784**	**15,277.0562**

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Apartments Low Rise	20.4391	0.2204	1.8836	0.8015	0.0120		0.1523	0.1523		0.1523	0.1523		2,404.5973	2,404.5973	0.0461	0.0441	2,418.8866
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
General Office Building	31.4174	0.3388	3.0801	2.5873	0.0185		0.2341	0.2341		0.2341	0.2341		3,696.1635	3,696.1635	0.0708	0.0678	3,718.1279
Government Office Building	2.53347	0.0273	0.2484	0.2086	1.4900e-003		0.0189	0.0189		0.0189	0.0189		298.0556	298.0556	5.7100e-003	5.4600e-003	299.8268
Hotel	65.7723	0.7093	6.4483	5.4165	0.0387		0.4901	0.4901		0.4901	0.4901		7,737.9180	7,737.9180	0.1483	0.1419	7,783.9005
Industrial Park	0.215584	2.3200e-003	0.0211	0.0178	1.3000e-004		1.6100e-003	1.6100e-003		1.6100e-003	1.6100e-003		25.3628	25.3628	4.9000e-004	4.6000e-004	25.5135
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Regional Shopping Center	2.45111	0.0264	0.2403	0.2019	1.4400e-003		0.0183	0.0183		0.0183	0.0183		288.3662	288.3662	5.5300e-003	5.2900e-003	290.0798
Single Family Housing	6.16688	0.0665	0.5683	0.2418	3.6300e-003		0.0460	0.0460		0.0460	0.0460		725.5154	725.5154	0.0139	0.0133	729.8268
Unrefrigerated Warehouse-No Rail	0.0920548	9.9000e-004	9.0200e-003	7.5800e-003	5.0000e-005		6.9000e-004	6.9000e-004		6.9000e-004	6.9000e-004		10.8300	10.8300	2.1000e-004	2.0000e-004	10.8943
Total		**1.3921**	**12.4992**	**9.4831**	**0.0759**		**0.9618**	**0.9618**		**0.9618**	**0.9618**		**15,186.8086**	**15,186.8086**	**0.2911**	**0.2784**	**15,277.0562**

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	62.4585	9.5108	53.2215	0.0597		0.9976	0.9976		0.9976	0.9976	0.0000	11,503.4717	11,503.4717	0.3044	0.2093	11,573.4416
Unmitigated	62.4585	9.5108	53.2215	0.0597		0.9976	0.9976		0.9976	0.9976	0.0000	11,503.4717	11,503.4717	0.3044	0.2093	11,573.4416

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	14.8460					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	45.0781					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	1.0463	8.9411	3.8047	0.0571		0.7229	0.7229		0.7229	0.7229	0.0000	11,414.1177	11,414.1177	0.2188	0.2093	11,481.9460
Landscaping	1.4881	0.5697	49.4167	2.6200e-003		0.2747	0.2747		0.2747	0.2747		89.3540	89.3540	0.0857		91.4956
Total	**62.4585**	**9.5108**	**53.2215**	**0.0597**		**0.9976**	**0.9976**		**0.9976**	**0.9976**	**0.0000**	**11,503.4717**	**11,503.4717**	**0.3044**	**0.2093**	**11,573.4416**

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	14.8460					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	45.0781					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	1.0463	8.9411	3.8047	0.0571		0.7229	0.7229		0.7229	0.7229	0.0000	11,414.1177	11,414.1177	0.2188	0.2093	11,481.9460
Landscaping	1.4881	0.5697	49.4167	2.6200e-003		0.2747	0.2747		0.2747	0.2747		89.3540	89.3540	0.0857		91.4956
Total	**62.4585**	**9.5108**	**53.2215**	**0.0597**		**0.9976**	**0.9976**		**0.9976**	**0.9976**	**0.0000**	**11,503.4717**	**11,503.4717**	**0.3044**	**0.2093**	**11,573.4416**

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

Old Town 1987 CP Adopted Plan

San Diego County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	581.52	1000sqft	24.10	581,524.00	0
Government Office Building	88.37	1000sqft	6.90	88,373.00	0
Industrial Park	3.88	1000sqft	5.80	3,882.00	0
Industrial Park	56.36	1000sqft	2.90	56,359.00	0
Unrefrigerated Warehouse-No Rail	76.36	1000sqft	3.29	76,359.00	0
Other Asphalt Surfaces	96.36	Acre	96.40	0.00	0
City Park	66.10	Acre	66.10	7,114.00	0
Hotel	539.00	Room	34.90	441,181.00	0
Apartments Low Rise	413.00	Dwelling Unit	14.30	413,000.00	1181
Single Family Housing	122.00	Dwelling Unit	6.70	219,600.00	349
Regional Shopping Center	360.40	1000sqft	16.20	360,400.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.6	**Precipitation Freq (Days)**	40
Climate Zone	13			**Operational Year**	2035
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

Old Town 1987 CP Adopted Plan - San Diego County, Winter

Project Characteristics - Operational emissions at build-out 2035.

Land Use - Land uses associated with full build-out of adopted plan. Tourist attraction land use included in hotel land uses. Industrial land uses includes transit center and utilities.

Construction Phase - Operations only run.

Off-road Equipment - Operations only run.

Off-road Equipment - Operations only run.

Off-road Equipment - Operations only run.

Trips and VMT - Operations only run.

Grading - Operations only run.

Architectural Coating - Operations only run.

Vehicle Trips - Mobile source emissions calculated separately.

Vehicle Emission Factors -

Vehicle Emission Factors -

Woodstoves - Assumes no woodstoves or wood fireplaces.

Energy Use -

Water And Wastewater -

Solid Waste -

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Nonresidential_Exterior	804,039.00	0.00
tblArchitecturalCoating	ConstArea_Nonresidential_Interior	2,412,117.00	0.00
tblArchitecturalCoating	ConstArea_Residential_Exterior	427,005.00	0.00
tblArchitecturalCoating	ConstArea_Residential_Interior	1,281,015.00	0.00
tblConstructionPhase	NumDays	330.00	0.00
tblConstructionPhase	NumDays	180.00	0.00
tblFireplaces	NumberGas	227.15	371.70
tblFireplaces	NumberGas	67.10	109.80
tblFireplaces	NumberWood	144.55	0.00

tblFireplaces	NumberWood	42.70	0.00
tblLandUse	BuildingSpaceSquareFeet	581,520.00	581,524.00
tblLandUse	BuildingSpaceSquareFeet	88,370.00	88,373.00
tblLandUse	BuildingSpaceSquareFeet	3,880.00	3,882.00
tblLandUse	BuildingSpaceSquareFeet	56,360.00	56,359.00
tblLandUse	BuildingSpaceSquareFeet	76,360.00	76,359.00
tblLandUse	BuildingSpaceSquareFeet	4,197,441.60	0.00
tblLandUse	BuildingSpaceSquareFeet	782,628.00	441,181.00
tblLandUse	GreenSpaceSquareFeet	2,879,316.00	7,114.00
tblLandUse	LandUseSquareFeet	581,520.00	581,524.00
tblLandUse	LandUseSquareFeet	88,370.00	88,373.00
tblLandUse	LandUseSquareFeet	3,880.00	3,882.00
tblLandUse	LandUseSquareFeet	56,360.00	56,359.00
tblLandUse	LandUseSquareFeet	76,360.00	76,359.00
tblLandUse	LandUseSquareFeet	4,197,441.60	0.00
tblLandUse	LandUseSquareFeet	2,879,316.00	7,114.00
tblLandUse	LandUseSquareFeet	782,628.00	441,181.00
tblLandUse	LotAcreage	13.35	24.10
tblLandUse	LotAcreage	2.03	6.90
tblLandUse	LotAcreage	0.09	5.80
tblLandUse	LotAcreage	1.29	2.90
tblLandUse	LotAcreage	1.75	3.29
tblLandUse	LotAcreage	96.36	96.40
tblLandUse	LotAcreage	17.97	34.90
tblLandUse	LotAcreage	25.81	14.30
tblLandUse	LotAcreage	39.61	6.70
tblLandUse	LotAcreage	8.27	16.20

tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	0.00
tblOffRoadEquipment	UsageHours	6.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblProjectCharacteristics	OperationalYear	2018	2035
tblTripsAndVMT	WorkerTripNumber	183.00	0.00
tblVehicleTrips	ST_TR	7.16	0.00
tblVehicleTrips	ST_TR	22.75	0.00
tblVehicleTrips	ST_TR	2.46	0.00
tblVehicleTrips	ST_TR	8.19	0.00
tblVehicleTrips	ST_TR	2.49	0.00
tblVehicleTrips	ST_TR	49.97	0.00
tblVehicleTrips	ST_TR	9.91	0.00
tblVehicleTrips	ST_TR	1.68	0.00
tblVehicleTrips	SU_TR	6.07	0.00
tblVehicleTrips	SU_TR	16.74	0.00
tblVehicleTrips	SU_TR	1.05	0.00
tblVehicleTrips	SU_TR	5.95	0.00
tblVehicleTrips	SU_TR	0.73	0.00
tblVehicleTrips	SU_TR	25.24	0.00
tblVehicleTrips	SU_TR	8.62	0.00
tblVehicleTrips	SU_TR	1.68	0.00
tblVehicleTrips	WD_TR	6.59	0.00
tblVehicleTrips	WD_TR	1.89	0.00
tblVehicleTrips	WD_TR	11.03	0.00

tblVehicleTrips	WD_TR	68.93	0.00
tblVehicleTrips	WD_TR	8.17	0.00
tblVehicleTrips	WD_TR	6.83	0.00
tblVehicleTrips	WD_TR	42.70	0.00
tblVehicleTrips	WD_TR	9.52	0.00
tblVehicleTrips	WD_TR	1.68	0.00
tblWoodstoves	NumberCatalytic	20.65	0.00
tblWoodstoves	NumberCatalytic	6.10	0.00
tblWoodstoves	NumberNoncatalytic	20.65	0.00
tblWoodstoves	NumberNoncatalytic	6.10	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					
2017	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Maximum	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2017	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Maximum	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

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

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	65.8506	8.4964	47.5715	0.0533		0.8912	0.8912		0.8912	0.8912	0.0000	10,276.3550	10,276.3550	0.2721	0.1869	10,338.8652
Energy	1.5067	13.5456	10.3945	0.0822		1.0410	1.0410		1.0410	1.0410		16,436.5371	16,436.5371	0.3150	0.3013	16,534.2113
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	**67.3572**	**22.0420**	**57.9660**	**0.1355**	**0.0000**	**1.9322**	**1.9322**	**0.0000**	**1.9322**	**1.9322**	**0.0000**	**26,712.8921**	**26,712.8921**	**0.5872**	**0.4883**	**26,873.0765**

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	65.8506	8.4964	47.5715	0.0533		0.8912	0.8912		0.8912	0.8912	0.0000	10,276.3550	10,276.3550	0.2721	0.1869	10,338.8652
Energy	1.5067	13.5456	10.3945	0.0822		1.0410	1.0410		1.0410	1.0410		16,436.5371	16,436.5371	0.3150	0.3013	16,534.2113
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	**67.3572**	**22.0420**	**57.9660**	**0.1355**	**0.0000**	**1.9322**	**1.9322**	**0.0000**	**1.9322**	**1.9322**	**0.0000**	**26,712.8921**	**26,712.8921**	**0.5872**	**0.4883**	**26,873.0765**

	ROG	NOx	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	Site Preparation	Site Preparation	6/13/2017	6/12/2017	5	0	
2	Architectural Coating	Architectural Coating	6/13/2017	6/12/2017	5	0	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 96.4

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

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Rubber Tired Dozers	0	0.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	0	0.00	97	0.37
Architectural Coating	Air Compressors	0	0.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	0	0.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	0	0.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Site Preparation - 2017

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**

3.2 Site Preparation - 2017

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**

3.2 Site Preparation - 2017

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 Architectural Coating - 2017

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**

3.3 Architectural Coating - 2017

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**

3.3 Architectural Coating - 2017

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

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

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Low Rise	0.00	0.00	0.00		
City Park	0.00	0.00	0.00		
General Office Building	0.00	0.00	0.00		
Government Office Building	0.00	0.00	0.00		
Hotel	0.00	0.00	0.00		
Industrial Park	0.00	0.00	0.00		
Industrial Park	0.00	0.00	0.00		
Other Asphalt Surfaces	0.00	0.00	0.00		
Regional Shopping Center	0.00	0.00	0.00		
Single Family Housing	0.00	0.00	0.00		
Unrefrigerated Warehouse-No Rail	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments Low Rise	10.80	7.30	7.50	41.60	18.80	39.60	86	11	3
City Park	9.50	7.30	7.30	33.00	48.00	19.00	66	28	6
General Office Building	9.50	7.30	7.30	33.00	48.00	19.00	77	19	4
Government Office Building	9.50	7.30	7.30	33.00	62.00	5.00	50	34	16
Hotel	9.50	7.30	7.30	19.40	61.60	19.00	58	38	4
Industrial Park	9.50	7.30	7.30	59.00	28.00	13.00	79	19	2
Industrial Park	9.50	7.30	7.30	59.00	28.00	13.00	79	19	2
Other Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Regional Shopping Center	9.50	7.30	7.30	16.30	64.70	19.00	54	35	11
Single Family Housing	10.80	7.30	7.50	41.60	18.80	39.60	86	11	3
Unrefrigerated Warehouse-No	9.50	7.30	7.30	59.00	0.00	41.00	92	5	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
General Office Building	0.617626	0.036451	0.176904	0.096837	0.011340	0.005282	0.018425	0.026503	0.001944	0.001632	0.005548	0.000800	0.000709
Government Office Building	0.617626	0.036451	0.176904	0.096837	0.011340	0.005282	0.018425	0.026503	0.001944	0.001632	0.005548	0.000800	0.000709
Industrial Park	0.617626	0.036451	0.176904	0.096837	0.011340	0.005282	0.018425	0.026503	0.001944	0.001632	0.005548	0.000800	0.000709
Industrial Park	0.617626	0.036451	0.176904	0.096837	0.011340	0.005282	0.018425	0.026503	0.001944	0.001632	0.005548	0.000800	0.000709
Unrefrigerated Warehouse-No Rail	0.617626	0.036451	0.176904	0.096837	0.011340	0.005282	0.018425	0.026503	0.001944	0.001632	0.005548	0.000800	0.000709
Other Asphalt Surfaces	0.617626	0.036451	0.176904	0.096837	0.011340	0.005282	0.018425	0.026503	0.001944	0.001632	0.005548	0.000800	0.000709
City Park	0.617626	0.036451	0.176904	0.096837	0.011340	0.005282	0.018425	0.026503	0.001944	0.001632	0.005548	0.000800	0.000709
Hotel	0.617626	0.036451	0.176904	0.096837	0.011340	0.005282	0.018425	0.026503	0.001944	0.001632	0.005548	0.000800	0.000709
Apartments Low Rise	0.617626	0.036451	0.176904	0.096837	0.011340	0.005282	0.018425	0.026503	0.001944	0.001632	0.005548	0.000800	0.000709
Single Family Housing	0.617626	0.036451	0.176904	0.096837	0.011340	0.005282	0.018425	0.026503	0.001944	0.001632	0.005548	0.000800	0.000709
Regional Shopping Center	0.617626	0.036451	0.176904	0.096837	0.011340	0.005282	0.018425	0.026503	0.001944	0.001632	0.005548	0.000800	0.000709

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	1.5067	13.5456	10.3945	0.0822		1.0410	1.0410		1.0410	1.0410		16,436.5371	16,436.5371	0.3150	0.3013	16,534.2113
NaturalGas Unmitigated	1.5067	13.5456	10.3945	0.0822		1.0410	1.0410		1.0410	1.0410		16,436.5371	16,436.5371	0.3150	0.3013	16,534.2113

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					
Apartments Low Rise	16233.3	0.1751	1.4960	0.6366	9.5500e-003		0.1210	0.1210		0.1210	0.1210		1,909.8052	1,909.8052	0.0366	0.0350	1,921.1542
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
General Office Building	32294.5	0.3483	3.1661	2.6596	0.0190		0.2406	0.2406		0.2406	0.2406		3,799.3526	3,799.3526	0.0728	0.0697	3,821.9303
Government Office Building	4907.73	0.0529	0.4812	0.4042	2.8900e-003		0.0366	0.0366		0.0366	0.0366		577.3798	577.3798	0.0111	0.0106	580.8108
Hotel	70842.8	0.7640	6.9454	5.8341	0.0417		0.5279	0.5279		0.5279	0.5279		8,334.4459	8,334.4459	0.1597	0.1528	8,383.9734
Industrial Park	215.584	2.3200e-003	0.0211	0.0178	1.3000e-004		1.6100e-003	1.6100e-003		1.6100e-003	1.6100e-003		25.3628	25.3628	4.9000e-004	4.6000e-004	25.5135
Industrial Park	3129.85	0.0338	0.3069	0.2578	1.8400e-003		0.0233	0.0233		0.0233	0.0233		368.2182	368.2182	7.0600e-003	6.7500e-003	370.4063
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Regional Shopping Center	2211.77	0.0239	0.2168	0.1822	1.3000e-003		0.0165	0.0165		0.0165	0.0165		260.2082	260.2082	4.9900e-003	4.7700e-003	261.7545
Single Family Housing	9523.54	0.1027	0.8777	0.3735	5.6000e-003		0.0710	0.0710		0.0710	0.0710		1,120.4162	1,120.4162	0.0215	0.0205	1,127.0742
Unrefrigerated Warehouse-No Rail	351.461	3.7900e-003	0.0345	0.0289	2.1000e-004		2.6200e-003	2.6200e-003		2.6200e-003	2.6200e-003		41.3483	41.3483	7.9000e-004	7.6000e-004	41.5940
Total		**1.5067**	**13.5456**	**10.3945**	**0.0822**		**1.0410**	**1.0410**		**1.0410**	**1.0410**		**16,436.5371**	**16,436.5371**	**0.3150**	**0.3013**	**16,534.2113**

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Apartments Low Rise	16.2333	0.1751	1.4960	0.6366	9.5500e-003		0.1210	0.1210		0.1210	0.1210		1,909.8052	1,909.8052	0.0366	0.0350	1,921.1542
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
General Office Building	32.2945	0.3483	3.1661	2.6596	0.0190		0.2406	0.2406		0.2406	0.2406		3,799.3526	3,799.3526	0.0728	0.0697	3,821.9303
Government Office Building	4.90773	0.0529	0.4812	0.4042	2.8900e-003		0.0366	0.0366		0.0366	0.0366		577.3798	577.3798	0.0111	0.0106	580.8108
Hotel	70.8428	0.7640	6.9454	5.8341	0.0417		0.5279	0.5279		0.5279	0.5279		8,334.4459	8,334.4459	0.1597	0.1528	8,383.9734
Industrial Park	0.215584	2.3200e-003	0.0211	0.0178	1.3000e-004		1.6100e-003	1.6100e-003		1.6100e-003	1.6100e-003		25.3628	25.3628	4.9000e-004	4.6000e-004	25.5135
Industrial Park	3.12985	0.0338	0.3069	0.2578	1.8400e-003		0.0233	0.0233		0.0233	0.0233		368.2182	368.2182	7.0600e-003	6.7500e-003	370.4063
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Regional Shopping Center	2.21177	0.0239	0.2168	0.1822	1.3000e-003		0.0165	0.0165		0.0165	0.0165		260.2082	260.2082	4.9900e-003	4.7700e-003	261.7545
Single Family Housing	9.52354	0.1027	0.8777	0.3735	5.6000e-003		0.0710	0.0710		0.0710	0.0710		1,120.4162	1,120.4162	0.0215	0.0205	1,127.0742
Unrefrigerated Warehouse-No Rail	0.351461	3.7900e-003	0.0345	0.0289	2.1000e-004		2.6200e-003	2.6200e-003		2.6200e-003	2.6200e-003		41.3483	41.3483	7.9000e-004	7.6000e-004	41.5940
Total		**1.5067**	**13.5456**	**10.3945**	**0.0822**		**1.0410**	**1.0410**		**1.0410**	**1.0410**		**16,436.5371**	**16,436.5371**	**0.3150**	**0.3013**	**16,534.2113**

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	65.8506	8.4964	47.5715	0.0533		0.8912	0.8912		0.8912	0.8912	0.0000	10,276.3550	10,276.3550	0.2721	0.1869	10,338.8652
Unmitigated	65.8506	8.4964	47.5715	0.0533		0.8912	0.8912		0.8912	0.8912	0.0000	10,276.3550	10,276.3550	0.2721	0.1869	10,338.8652

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	15.6326					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	47.9509					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.9347	7.9872	3.3988	0.0510		0.6458	0.6458		0.6458	0.6458	0.0000	10,196.4706	10,196.4706	0.1954	0.1869	10,257.0631
Landscaping	1.3324	0.5091	44.1727	2.3400e-003		0.2454	0.2454		0.2454	0.2454		79.8844	79.8844	0.0767		81.8021
Total	**65.8506**	**8.4964**	**47.5715**	**0.0533**		**0.8912**	**0.8912**		**0.8912**	**0.8912**	**0.0000**	**10,276.3550**	**10,276.3550**	**0.2721**	**0.1869**	**10,338.8652**

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	15.6326					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	47.9509					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.9347	7.9872	3.3988	0.0510		0.6458	0.6458		0.6458	0.6458	0.0000	10,196.4706	10,196.4706	0.1954	0.1869	10,257.0631
Landscaping	1.3324	0.5091	44.1727	2.3400e-003		0.2454	0.2454		0.2454	0.2454		79.8844	79.8844	0.0767		81.8021
Total	**65.8506**	**8.4964**	**47.5715**	**0.0533**		**0.8912**	**0.8912**		**0.8912**	**0.8912**	**0.0000**	**10,276.3550**	**10,276.3550**	**0.2721**	**0.1869**	**10,338.8652**

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

Old Town Alt 3B 2035

	Population	Total VMT	Total # Auto Trips	Avg Trip Length
Alternative 3B (2035)	2,430	175,097	61,622	2.8

			Emission Factors (g/mile)							Emissions (lb/day)						MT/day
Vehicle Class	Fuel	Daily VMT (mi)	ROG	CO	NOx	SOx	PM10	PM2.5	CO2	ROG	CO	NOx	SOx	PM10	PM2.5	CO2
All Other Buses	DSL	74.35	0.0486796	0.256233425	1.313297455	0.01122	0.145807	0.062177	1176.022	0.007979	0.041998	0.215255	0.001838974	0.023898	0.010191	0.087434
LDA	GAS	91,352.19	0.0123846	0.442190808	0.04789236	0.002061	0.045779	0.018696	205.723	2.494171	89.05445	9.64522	0.415060945	9.21955	3.765233	18.79325
LDA	DSL	1,254.98	0.0049662	0.149451816	0.010626527	0.001934	0.045785	0.01874	202.5926	0.01374	0.413489	0.0294	0.005351014	0.126673	0.051848	0.254249
LDA	ELEC	15,537.31	0	0	0	0	0.04475	0.01775	0	0	0	0	0	1.532837	0.607997	0
LDT1	GAS	6,376.07	0.0075341	0.423794159	0.035598058	0.002332	0.045937	0.018841	232.9267	0.105904	5.957102	0.500387	0.032779808	0.645711	0.26484	1.485157
LDT1	DSL	3.54	0.0182982	0.191453103	0.093358515	0.002197	0.051097	0.023823	230.0848	0.000143	0.001493	0.000728	1.71281E-05	0.000398	0.000186	0.000814
LDT1	ELEC	2.80	0	0	0	0	0.04475	0.01775	0	0	0	0	0	0.000276	0.000109	0
LDT2	GAS	30,907.57	0.0059171	0.396626883	0.02985469	0.002583	0.045791	0.018707	258.1547	0.403181	27.02551	2.03425	0.176022713	3.120105	1.274657	7.978933
LDT2	DSL	67.78	0.0148814	0.146440668	0.029631561	0.002416	0.048777	0.021602	253.0242	0.002224	0.021883	0.004428	0.000360965	0.007289	0.003228	0.017151
LHD1	GAS	651.31	0.0140094	0.286395631	0.108314541	0.007931	0.086616	0.03676	793.9993	0.020116	0.411227	0.155526	0.01138731	0.124369	0.052783	0.51714
LHD1	DSL	1,334.32	0.134292	0.626424343	0.562562952	0.004987	0.100997	0.047773	522.3995	0.395035	1.842699	1.654843	0.014670269	0.297093	0.140531	0.697046
LHD2	GAS	267.83	0.0068326	0.157595197	0.047486333	0.00879	0.099345	0.04221	880.3641	0.004034	0.093054	0.028039	0.005190362	0.058659	0.024924	0.235791
LHD2	DSL	657.07	0.1218519	0.543982272	0.155559281	0.005518	0.111529	0.051122	577.9825	0.17651	0.787991	0.225337	0.007992835	0.161557	0.074053	0.379773
MCY	GAS	971.39	2.3119908	18.30121223	1.141324464	0.002218	0.01819	0.008306	184.8985	4.951144	39.19217	2.444154	0.004749647	0.038954	0.017787	0.179608
MDV	GAS	16,496.74	0.0085553	0.487083158	0.042936933	0.003442	0.045848	0.01876	344.0752	0.311143	17.71447	1.56155	0.125197781	1.667435	0.682269	5.676117
MDV	DSL	459.13	0.0057161	0.167229223	0.011635716	0.003174	0.046032	0.018977	332.4955	0.005786	0.16927	0.011778	0.003212935	0.046594	0.019208	0.15266
MH	GAS	96.72	0.0186414	0.365846924	0.164867744	0.012269	0.143714	0.060124	1228.45	0.003975	0.078009	0.035154	0.00261601	0.030644	0.01282	0.118816
MH	DSL	27.38	0.088584	0.278785022	3.018723789	0.009731	0.189298	0.10096	1019.319	0.005347	0.016827	0.182203	0.000587343	0.011426	0.006094	0.027907
Motor Coach	DSL	74.59	0.0785134	0.463603535	1.565567969	0.015354	0.147084	0.063399	1609.34	0.01291	0.076232	0.257433	0.002524704	0.024186	0.010425	0.120037
OBUS	GAS	191.44	0.0131022	0.237141583	0.103556199	0.012133	0.143744	0.060151	1215.04	0.00553	0.100085	0.043706	0.005120506	0.060667	0.025387	0.232608
PTO	DSL	76.71	0.1993862	1.17732906	4.132061248	0.017583	0.00611	0.005846	1842.979	0.033718	0.199096	0.698764	0.002973404	0.001033	0.000989	0.14137
SBUS	GAS	51.46	0.0125761	0.221835965	0.098114426	0.006327	0.754315	0.322593	633.4813	0.001427	0.025168	0.011132	0.00071786	0.085581	0.0366	0.032601
SBUS	DSL	88.66	0.069258	0.318960643	1.694209579	0.011923	0.762646	0.327793	1249.728	0.013538	0.062347	0.331165	0.002330572	0.149073	0.064073	0.110807
T6 Ag	DSL	7.41	0.0536937	0.282625912	1.566887522	0.011377	0.146229	0.062581	1192.54	0.000878	0.004619	0.025609	0.000185953	0.00239	0.001023	0.008841
T6 CAIRP heavy	DSL	5.05	0.0419704	0.2209185	1.039743348	0.010777	0.1452	0.061596	1129.655	0.000467	0.002458	0.011567	0.000119892	0.001615	0.000685	0.0057
T6 CAIRP small	DSL	15.49	0.0397256	0.209102539	0.95492817	0.011034	0.144991	0.061397	1156.575	0.001357	0.007141	0.03261	0.00037681	0.004951	0.002097	0.017915
T6 instate construction heavy	DSL	84.85	0.047899	0.251974796	1.281301459	0.011142	0.145749	0.062122	1167.885	0.00896	0.047136	0.239688	0.002084323	0.027265	0.011621	0.099099
T6 instate construction small	DSL	227.95	0.0437735	0.230271098	1.11151724	0.011085	0.145378	0.061767	1161.872	0.021998	0.115719	0.558574	0.005570475	0.073057	0.03104	0.264847
T6 instate heavy	DSL	692.54	0.0466222	0.245404187	1.233889453	0.010854	0.145618	0.061996	1137.721	0.071181	0.374676	1.883865	0.016572149	0.222325	0.094653	0.78792
T6 instate small	DSL	1,744.41	0.0436153	0.229576642	1.104483094	0.011086	0.14535	0.06174	1162.049	0.167732	0.882884	4.247514	0.042635359	0.558974	0.237433	2.027091
T6 OOS heavy	DSL	2.89	0.0420032	0.221091309	1.041218146	0.010778	0.145202	0.061599	1129.703	0.000268	0.001409	0.006637	6.86967E-05	0.000925	0.000393	0.003266
T6 OOS small	DSL	8.88	0.0397256	0.209102539	0.95492817	0.011034	0.144991	0.061397	1156.575	0.000777	0.004091	0.018684	0.000215898	0.002837	0.001201	0.010265
T6 Public	DSL	77.25	0.03956	0.189096303	1.17336338	0.011135	0.14668	0.063012	1167.091	0.006737	0.032205	0.199836	0.001896341	0.024981	0.010732	0.090161
T6 utility	DSL	11.00	0.0328402	0.172859832	0.704312058	0.011042	0.144346	0.060779	1157.398	0.000796	0.004191	0.017077	0.000267734	0.0035	0.001474	0.012729
T6TS	GAS	348.37	0.0131871	0.244707803	0.104987862	0.012121	0.143744	0.060151	1213.889	0.010128	0.187941	0.080633	0.009309301	0.110398	0.046197	0.422888
T7 Ag	DSL	5.51	0.0924119	0.545670754	2.245795291	0.015052	0.104433	0.041864	1577.652	0.001124	0.006634	0.027304	0.000182991	0.00127	0.000509	0.0087
T7 CAIRP	DSL	771.90	0.077061	0.455027296	1.346247	0.013588	0.103211	0.040694	1424.206	0.131137	0.774331	2.290942	0.023122337	0.175636	0.06925	1.099348
T7 CAIRP construction	DSL	60.19	0.0788885	0.465677156	1.380623593	0.013951	0.103398	0.040873	1462.249	0.010469	0.061797	0.183213	0.001851282	0.013721	0.005424	0.088019
T7 NNOOS	DSL	957.16	0.0673948	0.397950714	1.097194021	0.013552	0.102326	0.039848	1420.494	0.142213	0.839732	2.315234	0.028596997	0.215923	0.084085	1.35964
T7 NOOS	DSL	304.90	0.0771075	0.455302144	1.348392556	0.013589	0.103215	0.040698	1424.359	0.05183	0.306045	0.906363	0.0091343	0.069379	0.027356	0.434289
T7 other port	DSL	222.39	0.0840402	0.496238148	1.492288315	0.013925	0.103862	0.041317	1459.551	0.041204	0.243299	0.731649	0.006827139	0.050922	0.020257	0.324595
T7 POLA	DSL	134.90	0.0843743	0.49821064	1.552274928	0.014056	0.103872	0.041327	1473.317	0.025093	0.148167	0.461643	0.004180267	0.030891	0.012291	0.19875
T7 Public	DSL	58.21	0.0700712	0.33354293	2.92915048	0.014701	0.10932	0.046539	1540.927	0.008992	0.042801	0.375875	0.001886487	0.014028	0.005972	0.089693
T7 Single	DSL	386.31	0.0655067	0.386802114	1.141055913	0.014179	0.102122	0.039653	1486.222	0.05579	0.329424	0.971793	0.012075916	0.086974	0.033771	0.574147
T7 single construction	DSL	155.71	0.0654104	0.385563881	1.13902286	0.01416	0.102184	0.039711	1484.167	0.022454	0.132359	0.391011	0.004860809	0.035078	0.013632	0.231106
T7 SWCV	DSL	167.39	0.0868809	13.53150397	1.758454475	0.003183	0.102147	0.039677	3204.903	0.032062	4.993556	0.648926	0.001174684	0.037696	0.014642	0.536478
T7 tractor	DSL	1,170.66	0.0799408	0.472031834	1.460852071	0.013678	0.103459	0.040931	1433.701	0.206314	1.218234	3.770211	0.035301058	0.26701	0.105637	1.678383
T7 tractor construction	DSL	116.10	0.082243	0.485384409	1.514564431	0.014078	0.103694	0.041157	1475.632	0.02105	0.124232	0.387645	0.00360325	0.02654	0.010534	0.171316
T7 utility	DSL	5.65	0.0498947	0.294616606	0.709702202	0.014048	0.100707	0.038299	1472.476	0.000621	0.00367	0.00884	0.000174978	0.001254	0.000477	0.008319
T7IS	GAS	46.86	0.3102638	29.59810622	2.988687608	0.01654	0.082885	0.032513	1609.21	0.032051	3.057554	0.308738	0.001708647	0.008562	0.003359	0.075404
UBUS	GAS	135.72	0.0380569	0.695600662	0.430074525	0.016196	0.144606	0.060944	1621.314	0.011387	0.208122	0.128677	0.004845842	0.043266	0.018234	0.220039
UBUS	DSL	150.00	0.2246031	8.502044036	2.96608817	0.001649	0.895655	0.403805	1860.822	0.074275	2.81158	0.980869	0.000545213	0.296188	0.133536	0.279129
								Total (lbs/day)		10.13	200.25	42.28	1.04	19.84	8.14	48.37

Old Town Adopted Community Plan 2035

	Population	Total VMT	Total # Auto Trips	Avg Trip Length
Adopted CP (2035)	985	171,581	58,192	2.9

			Emission Factors (g/mile)							Emissions (lb/day)						MT/day
Vehicle Class	Fuel	Daily VMT (mi)	ROG	CO	NOx	SOx	PM10	PM2.5	CO2	ROG	CO	NOx	SOx	PM10	PM2.5	CO2
All Other Buses	DSL	72.85	0.0486796	0.256233425	1.313297455	0.01122	0.145807	0.062177	1176.022	0.007819	0.041154	0.210933	0.001802047	0.023419	0.009986	0.085678
LDA	GAS	89,517.81	0.0123846	0.442190808	0.04789236	0.002061	0.045779	0.018696	205.723	2.444087	87.26621	9.451541	0.406726398	9.034419	3.689626	18.41588
LDA	DSL	1,229.78	0.0049662	0.149451816	0.010626527	0.001934	0.045785	0.01874	202.5926	0.013464	0.405186	0.02881	0.005243564	0.12413	0.050807	0.249144
LDA	ELEC	15,225.31	0	0	0	0	0.04475	0.01775	0	0	0	0	0	1.502057	0.595788	0
LDT1	GAS	6,248.04	0.0075341	0.423794159	0.035598058	0.002332	0.045937	0.018841	232.9267	0.103778	5.837482	0.490339	0.032121579	0.632745	0.259522	1.455335
LDT1	DSL	3.47	0.0182982	0.191453103	0.093358515	0.002197	0.051097	0.023823	230.0848	0.00014	0.001463	0.000713	1.67842E-05	0.00039	0.000182	0.000797
LDT1	ELEC	2.74	0	0	0	0	0.04475	0.01775	0	0	0	0	0	0.00027	0.000107	0
LDT2	GAS	30,286.93	0.0059171	0.396626883	0.02985469	0.002583	0.045791	0.018707	258.1547	0.395085	26.48283	1.993402	0.172488125	3.057452	1.249062	7.818714
LDT2	DSL	66.42	0.0148814	0.146440668	0.029631561	0.002416	0.048777	0.021602	253.0242	0.002179	0.021444	0.004339	0.000353716	0.007143	0.003163	0.016807
LHD1	GAS	638.23	0.0140094	0.286395631	0.108314541	0.007931	0.086616	0.03676	793.9993	0.019712	0.402969	0.152403	0.011158649	0.121871	0.051723	0.506756
LHD1	DSL	1,307.52	0.134292	0.626424343	0.562562952	0.004987	0.100997	0.047773	522.3995	0.387103	1.805697	1.621613	0.014375685	0.291127	0.137709	0.683049
LHD2	GAS	262.46	0.0068326	0.157595197	0.047486333	0.00879	0.099345	0.04221	880.3641	0.003953	0.091185	0.027476	0.005086138	0.057481	0.024423	0.231056
LHD2	DSL	643.87	0.1218519	0.543982272	0.155559281	0.005518	0.111529	0.051122	577.9825	0.172965	0.772168	0.220812	0.007832336	0.158313	0.072566	0.372147
MCY	GAS	951.88	2.3119908	18.30121223	1.141324464	0.002218	0.01819	0.008306	184.8985	4.851724	38.40518	2.395075	0.004654273	0.038172	0.01743	0.176001
MDV	GAS	16,165.48	0.0085553	0.487083158	0.042936933	0.003442	0.045848	0.01876	344.0752	0.304895	17.35876	1.530194	0.122683773	1.633953	0.668569	5.562139
MDV	DSL	449.91	0.0057161	0.167229223	0.011635716	0.003174	0.046032	0.018977	332.4955	0.00567	0.165871	0.011541	0.003148418	0.045658	0.018823	0.149595
MH	GAS	94.78	0.0186414	0.365846924	0.164867744	0.012269	0.143714	0.060124	1228.45	0.003895	0.076442	0.034448	0.00256348	0.030029	0.012563	0.11643
MH	DSL	26.83	0.088584	0.278785022	3.018723789	0.009731	0.189298	0.10096	1019.319	0.005239	0.016489	0.178544	0.000575549	0.011196	0.005971	0.027347
Motor Coach	DSL	73.09	0.0785134	0.463603535	1.565567969	0.015354	0.147084	0.063399	1609.34	0.012651	0.074702	0.252264	0.002474007	0.0237	0.010216	0.117626
OBUS	GAS	187.60	0.0131022	0.237141583	0.103556199	0.012133	0.143744	0.060151	1215.04	0.005419	0.098075	0.042828	0.005017685	0.059449	0.024877	0.227938
PTO	DSL	75.17	0.1993862	1.17732906	4.132061248	0.017583	0.00611	0.005846	1842.979	0.033041	0.195098	0.684733	0.002913697	0.001013	0.000969	0.138531
SBUS	GAS	50.43	0.0125761	0.221835965	0.098114426	0.006327	0.754315	0.322593	633.4813	0.001398	0.024663	0.010908	0.000703446	0.083862	0.035865	0.031946
SBUS	DSL	86.88	0.069258	0.318960643	1.694209579	0.011923	0.762646	0.327793	1249.728	0.013266	0.061095	0.324515	0.002283773	0.14608	0.062787	0.108582
T6 Ag	DSL	7.26	0.0536937	0.282625912	1.566887522	0.011377	0.146229	0.062581	1192.54	0.00086	0.004526	0.025095	0.000182219	0.002342	0.001002	0.008664
T6 CAIRP heavy	DSL	4.94	0.0419704	0.2209185	1.039743348	0.010777	0.1452	0.061596	1129.655	0.000458	0.002408	0.011334	0.000117485	0.001583	0.000671	0.005586
T6 CAIRP small	DSL	15.18	0.0397256	0.209102539	0.95492817	0.011034	0.144991	0.061397	1156.575	0.001329	0.006997	0.031955	0.000369244	0.004852	0.002055	0.017556
T6 instate construction heavy	DSL	83.15	0.047899	0.251974796	1.281301459	0.011142	0.145749	0.062122	1167.885	0.00878	0.046189	0.234875	0.002042469	0.026717	0.011387	0.097109
T6 instate construction small	DSL	223.37	0.0437735	0.230271098	1.11151724	0.011085	0.145378	0.061767	1161.872	0.021556	0.113395	0.547357	0.005458619	0.07159	0.030416	0.259529
T6 instate heavy	DSL	678.64	0.0466222	0.245404187	1.233889453	0.010854	0.145618	0.061996	1137.721	0.069752	0.367152	1.846036	0.016239376	0.21786	0.092753	0.772099
T6 instate small	DSL	1,709.38	0.0436153	0.229576642	1.104483094	0.011086	0.14535	0.06174	1162.049	0.164363	0.865155	4.162223	0.041779229	0.547749	0.232666	1.986387
T6 OOS heavy	DSL	2.83	0.0420032	0.221091309	1.041218146	0.010778	0.145202	0.061599	1129.703	0.000262	0.001381	0.006503	6.73173E-05	0.000907	0.000385	0.003201
T6 OOS small	DSL	8.70	0.0397256	0.209102539	0.95492817	0.011034	0.144991	0.061397	1156.575	0.000762	0.004009	0.018309	0.000211563	0.00278	0.001177	0.010059
T6 Public	DSL	75.70	0.03956	0.189096303	1.17336338	0.011135	0.14668	0.063012	1167.091	0.006602	0.031558	0.195824	0.001858262	0.02448	0.010516	0.088351
T6 utility	DSL	10.78	0.0328402	0.172859832	0.704312058	0.011042	0.144346	0.060779	1157.398	0.00078	0.004107	0.016734	0.000262358	0.00343	0.001444	0.012474
T6TS	GAS	341.38	0.0131871	0.244707803	0.104987862	0.012121	0.143744	0.060151	1213.889	0.009925	0.184167	0.079014	0.009122367	0.108181	0.045269	0.414396
T7 Ag	DSL	5.40	0.0924119	0.545670754	2.245795291	0.015052	0.104433	0.041864	1577.652	0.001101	0.006501	0.026755	0.000179316	0.001244	0.000499	0.008526
T7 CAIRP	DSL	756.40	0.077061	0.455027296	1.346247	0.013588	0.103211	0.040694	1424.206	0.128503	0.758782	2.244939	0.022658033	0.172109	0.06786	1.077273
T7 CAIRP construction	DSL	58.99	0.0788885	0.465677156	1.380623593	0.013951	0.103398	0.040873	1462.249	0.010259	0.060556	0.179534	0.001814108	0.013446	0.005315	0.086251
T7 NNOOS	DSL	937.94	0.0673948	0.397950714	1.097194021	0.013552	0.102326	0.039848	1420.494	0.139357	0.82287	2.268743	0.02802276	0.211587	0.082396	1.332338
T7 NOOS	DSL	298.78	0.0771075	0.455302144	1.348392556	0.013589	0.103215	0.040698	1424.359	0.050789	0.2999	0.888163	0.008950881	0.067986	0.026807	0.425568
T7 other port	DSL	217.93	0.0840402	0.496238148	1.492288315	0.013925	0.103862	0.041317	1459.551	0.040376	0.238413	0.716957	0.006690048	0.0499	0.01985	0.318077
T7 POLA	DSL	132.19	0.0843743	0.49821064	1.552274928	0.014056	0.103872	0.041327	1473.317	0.024589	0.145192	0.452373	0.004096326	0.030271	0.012044	0.194759
T7 Public	DSL	57.04	0.0700712	0.33354293	2.92915048	0.014701	0.10932	0.046539	1540.927	0.008811	0.041942	0.368327	0.001848606	0.013746	0.005852	0.087892
T7 Single	DSL	378.56	0.0655067	0.386802114	1.141055913	0.014179	0.102122	0.039653	1486.222	0.054669	0.322809	0.952279	0.011833428	0.085227	0.033093	0.562618
T7 single construction	DSL	152.59	0.0654104	0.385563881	1.13902286	0.01416	0.102184	0.039711	1484.167	0.022004	0.129701	0.383159	0.004763202	0.034374	0.013359	0.226466
T7 SWCV	DSL	164.03	0.0868809	13.53150397	1.758454475	0.003183	0.102147	0.039677	3204.903	0.031418	4.893284	0.635895	0.001151096	0.036939	0.014348	0.525705
T7 tractor	DSL	1,147.16	0.0799408	0.472031834	1.460852071	0.013678	0.103459	0.040931	1433.701	0.202171	1.193771	3.694504	0.034592202	0.261648	0.103516	1.644681
T7 tractor construction	DSL	113.77	0.082243	0.485384409	1.514564431	0.014078	0.103694	0.041157	1475.632	0.020627	0.121737	0.379861	0.003530896	0.026007	0.010322	0.167876
T7 utility	DSL	5.54	0.0498947	0.294616606	0.709702202	0.014048	0.100707	0.038299	1472.476	0.000609	0.003596	0.008662	0.000171464	0.001229	0.000467	0.008152
T7IS	GAS	45.92	0.3102638	29.59810622	2.988687608	0.01654	0.082885	0.032513	1609.21	0.031407	2.996158	0.302539	0.001674337	0.00839	0.003291	0.07389
UBUS	GAS	132.99	0.0380569	0.695600662	0.430074525	0.016196	0.144606	0.060944	1621.314	0.011158	0.203943	0.126094	0.004748536	0.042397	0.017868	0.21562
UBUS	DSL	146.99	0.2246031	8.502044036	2.96608817	0.001649	0.895655	0.403805	1860.822	0.072784	2.755122	0.961173	0.000534265	0.290241	0.130855	0.273524
								Total (lbs/day)		9.92	196.23	41.43	1.02	19.44	7.98	47.40