Appendix B-1

Air Quality Assessment

AIR QUALITY ASSESSMENT

for the

Imperial Avalon Project

Carson, California

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SYMBOLS, ABBREVIATIONS, AND ACRONYMS

AB	Assembly Bill
APN	Assessor's Parcel Number
AQMP	Air Quality Management Plan
CAAQS	California Ambient Air Quality Standards
CAL/EPA	California Environmental Protection Agency
CALGreen	California Green Building Standards
CalEEMod	California Emissions Estimator Model
CARB	California Air Resources Board
CCAA	California Clean Air Act
CEQA	California Environmental Quality Act
CO	carbon monoxide
EMFAC2017	CARB's 2017 EMission FACtor Model
EPA	U.S. Environmental Protection Agency
°F	Degrees Fahrenheit
FAR	Floor Area Ratio
FCAA	Federal Clean Air Act
GBA	Gross Building Area
GHG	greenhouse gas
HQTA	high quality transit area
I-110	Interstate 110
I-405	Interstate 405
IPCC	International Panel for Climate Change
LDR	Low Density Residential
LOS	Level of Service
LSTs	localized significance thresholds
NAAQS	National Ambient Air Quality Standards
NO_2	nitrogen dioxide
NO_x	nitrogen oxide
O_3	ozone
PM_{10}	particulate matter less than 10 microns in diameter
$PM_{2.5}$	particulate matter less than 2.5 microns in diameter
ppb	parts per billion
ppm	parts per million
PST	Pacific Standard Time
RC	Regional Commercial
RH	relative humidity
ROG	reactive organic gases
RTP	Regional Transportation Plan
SCAQMD	South Coast Air Quality Management District
SB	Senate Bill
SCS	Sustainable Community Strategy

SIP	State Implementation Plan
SO_2	sulfur dioxide
SO_x	sulfur oxide
SRA	Source Receptor Area
$\mu g/m^3$	micrograms per cubic meter
UV-B	ultraviolet B rays
VMT	vehicle miles traveled
VOC	volatile organic compound

EXECUTIVE SUMMARY

The purpose of this Air Quality Assessment is to evaluate potential short- and long-term air quality impacts resulting from implementation of the proposed Imperial Avalon project. Consistent with Appendix G of the California Environmental Quality Act (CEQA) Guidelines, Table 1, *Summary of CEQA Significance Findings*, summarizes the results of this assessment based on the significance criteria detailed in this report.

Table 1
Summary of CEQA Significance Findings

CEQA Threshold	Significance Findings	
	Unmitigated	Mitigated
AQ-1: Would the project conflict with or obstruct implementation of the applicable air quality plan?	Less Than Significant	Not Applicable
AQ-2: Would the project result in a cumulatively considerable net increase of any criteria pollutant for which the region is nonattainment for Federal or State standards?	Less Than Significant	Not Applicable
AQ-3: Would the project expose sensitive receptors to substantial pollutant concentrations?	Less Than Significant	Not Applicable
AQ-4: Would the project result in other emissions (such as those leading to odors) adversely affecting a substantial number of people?	Less Than Significant	Not Applicable

1.0 INTRODUCTION

The purpose of this Air Quality Assessment is to evaluate potential short- and long-term air quality impacts resulting from implementation of the proposed Imperial Avalon project (project) in the City of Carson (City).

1.1 PROJECT LOCATION

The City is located in the South Bay/Harbor area of Los Angeles County, approximately 13 miles south of downtown Los Angeles; refer to Exhibit 1, *Regional Vicinity*. The City consists of 19.2 square miles. The City is surrounded by the City of Los Angeles to the north, southeast, south, and northwest. The City of Compton is located to the northeast and the City of Long Beach is adjacent to the east. Unincorporated Los Angeles County areas are located to the north, east, and southwest.

The project site is located at 21207 South Avalon Boulevard and encompasses approximately 27.31 acres (Assessor's Parcel Numbers [APNs] 7337-001-025, -026, -027, -028, and -029); refer to Exhibit 2, *Site Vicinity*. The site is currently developed with the Imperial Avalon Mobile Estates mobile home park, which consists of 225 mobile home coaches, a recreational vehicle storage yard, and a common area with a clubhouse, grass field, recreation building, swimming pool, and guest parking spaces. Regional access to the site is provided via the San Diego Freeway (Interstate 405 [I-405]) and the Harbor Freeway (Interstate 110 [I-110]); local access is provided via South Avalon Boulevard and East 213th Street.

1.2 PROJECT DESCRIPTION

The project proposes to demolish the existing mobile home park and construct a mixed-use development. The project would construct four multi-story multi-family buildings with public spaces and a townhouse neighborhood; refer to Exhibit 3, *Conceptual Site Plan*. A north-south internal roadway would bisect the two distinct but connected residential areas of the site providing both vehicular and pedestrian access. The project also proposes a pedestrian bridge over the Los Angeles County flood control channel to the north of the project site. The entire community would share the public park spaces and gathering nodes, with walkable paseos connecting the active greenspaces. Utility improvements are proposed along Avalon Boulevard, to the east of the project site. A description of project elements is provided in Table 2, *Project Components*.

Table 2
Project Components

Project Site	1,189,739 square feet | 27.31 acres	
Parcels	7337-001-025; -026; 027; -028; -029	
Area of Proposed Site Uses in Square Feet	Building Area (GBA)	Building Area of Residential Uses: 1,527,694 Building Area of Commercial Uses: 10,352 Building Area of Parking: 647,027 Total Building Area (including parking): 2,185,073
Area of Proposed Site Uses in Square Feet (continued)	Building Area (FAR)	Floor Area Ratio Total Building Area (non-parking floor areas): 1,496,832
Parking	Approximately 2,026 parking spaces and approximately 8 loading spaces (minimum two per multi-family building) would be provided. No subterranean parking levels are being proposed. There would be unbundled parking options for residents and a portion of guest parking to be shared with the 26 commercial spaces provided at Buildings B and C.	
Building Height	Building heights will range from 45 to 90 feet.	
Density	Multifamily – 69.97 du/ac | Townhomes – 24.85 du/ac | Cumulative – 44.4 du/ac	
Floor Area Ratio	1.26:1 (1,496,832 FAR sf / 1,189,739 site area sf)	
Commercial Areas		
Café / Restaurants		
Square Footage (FAR)	10,352	
Parking	26 stalls	
Residential		
Square Footage (FAR)	1,486,480	
Units	1,213 – including 653 non age-restricted multi-family units in Buildings A, B, and D; 180 age-restricted senior independent living units in Building C; and 380 Townhouse units on Lot E.	
Parking	2,026 stalls – including 818 spaces located in individual townhouse garages on Lot E. Multifamily parking ratios by unit type: Studios – 1.25; 1BR – 1.50; 2BR – 1.70 Two stalls per TH unit with 53 surface spaces for guests.	
Mix Unit	Multi-family Buildings A, B, and D: 126 Studios (19%) | 363 1BR (56%) | 164 2BR (25%)	
	Independent Living Senior Building C: 180 total units: 56 Studios | 124 1BR	
	Lot E Townhomes: 192 2BR (51%) | 188 3BR (49%)	

Notes: sf = square feet, FAR = Floor Area Ratio, GBA = Gross Building Area, BR = Bedroom; all measurements, square footages, and building area ratios provided in Table 2 are approximated.

Located at the northeast corner of the project site, **Building A** consists of a four-story wrap building approximately 60 feet tall with some residential units, resident-accessible leasing office, and recreational amenity spaces at the ground level. Building A would contain 202 units comprised of 40 studios, 108 one-bedroom, and 54 two-bedroom units. An at-grade gathering space across from Building B would create visual and pedestrian connections between neighboring buildings and the project's central park. The large interior courtyard space would feature amenities and a swimming pool. Approximately 308 parking spaces would be located at multiple levels within the at- and above-grade parking structure.

Building B would consist of a four-story residential development in a wrap configuration. Building B would be comprised of 206 units consisting of 40 studios, 113 one-bedroom, and 53 two-bedroom units. A large west-facing courtyard would open onto the central park, with a resident leasing office, amenity space, and an approximate 1,890 square foot café bounding the park. At the southeast corner of the building, an approximate 3,200 square foot restaurant will be located at the intersection of Avalon Boulevard and the main project entrance drive. Approximately 315 total parking spaces would be provided with approximately five stalls shared between residential guest and café/restaurant uses. An approximate 21,300 square foot publicly accessible park would bound Building B to the west and be situated adjacent to the café, leasing office, and amenity spaces. An approximate 3,000 square foot dog-park would be apportioned from the central park space to accommodate the growing number of pet owners choosing to reside in highly-amenitized mixed-use developments.

In addition to the three non-age restricted multi-family buildings, **Building C** would provide independent living opportunities for the Senior community. Building C would house three levels of residential units and interior courtyards over two levels of at- and above-grade podium structured parking. At the northeast corner of the Building C, an approximate 5,262 square foot restaurant would be located at the intersection of Avalon Boulevard and the main project entrance drive. Building C would contain 180 age-restricted units comprised of 56 studios and 124 one-bedroom units. Approximately 218 total parking spaces would be provided within the at- and above-grade parking structure with approximately 13 stalls to be shared between the residential guests and restaurant uses.

Building D would house four levels of residential units and multiple interior courtyards over three levels of at- and above-grade podium structured parking. Building D would contain 245 units comprised of 46 studios, 142 one-bedroom, and 57 two-bedroom units. Approximately 367 parking spaces would be provided, along with a resident-accessible leasing office, recreational amenity spaces, and a swimming pool. A generous 17-foot landscaped parkway would act as a buffer to the townhouse portion of the site, while providing for pedestrian circulation and connecting to the central park along the main north-south project roadway.

Lot E would include an approximate 380-unit for-sale townhouse community integrated into the larger community and would provide an appropriate transition to the single-family neighborhoods to the west and south. While accessible from the multi-family portion of the project, the main entry would be off Grace Avenue and would feature a Leasing/Club Fitness Facility that would serve as a focal point for the community. A potential second access point at the northwest corner of the site, also along Grace Avenue, will be evaluated. A lush green belt and pool/recreation facility with a sun deck would be axially aligned with the central open spaces located on the eastern portion of the site. This planning relationship establishes visual connectivity and linkage, reinforcing walkability between the two communities. Within Lot E, walkable paseos are featured with various pedestrian linkages, including to the recreation and pool facility. The townhouse units are arranged to provide convenient access to the paseos, linear park, and recreational pool area.

The residential townhome buildings are three stories and 45 feet in height with direct access to the attached two-car garages. Residential dwelling units within the buildings are two- and three-bedrooms ranging from approximately 1,325 to 1,700 square feet, featuring private patios and decks. The design of the dwelling unit interior spaces has a single-family layout and appearance. On the exterior, architectural massing and articulation of the buildings provide a sensitive transition to the existing single-family homes adjacent to this new community.

Site Access, Parking, and Loading Areas

Main vehicular site access would be provided at a location approximately midway between I-405 and East 213th Street. A new signalized intersection would be constructed in coordination with the entrance to the proposed redevelopment project on the east side of Avalon Boulevard. A secondary right-in/right-out only entrance/exit and fire lane would be located at the southern edge of the site along Avalon, with a tertiary vehicular entrance potentially to originate at East 213th Street and proceed north through the proposed redevelopment of the auto dealership to the south. The main project access point for the Townhouse portion of the project would occur along Grace Avenue, with a potential additional access point located at the northwest corner of the site also along Grace Avenue.

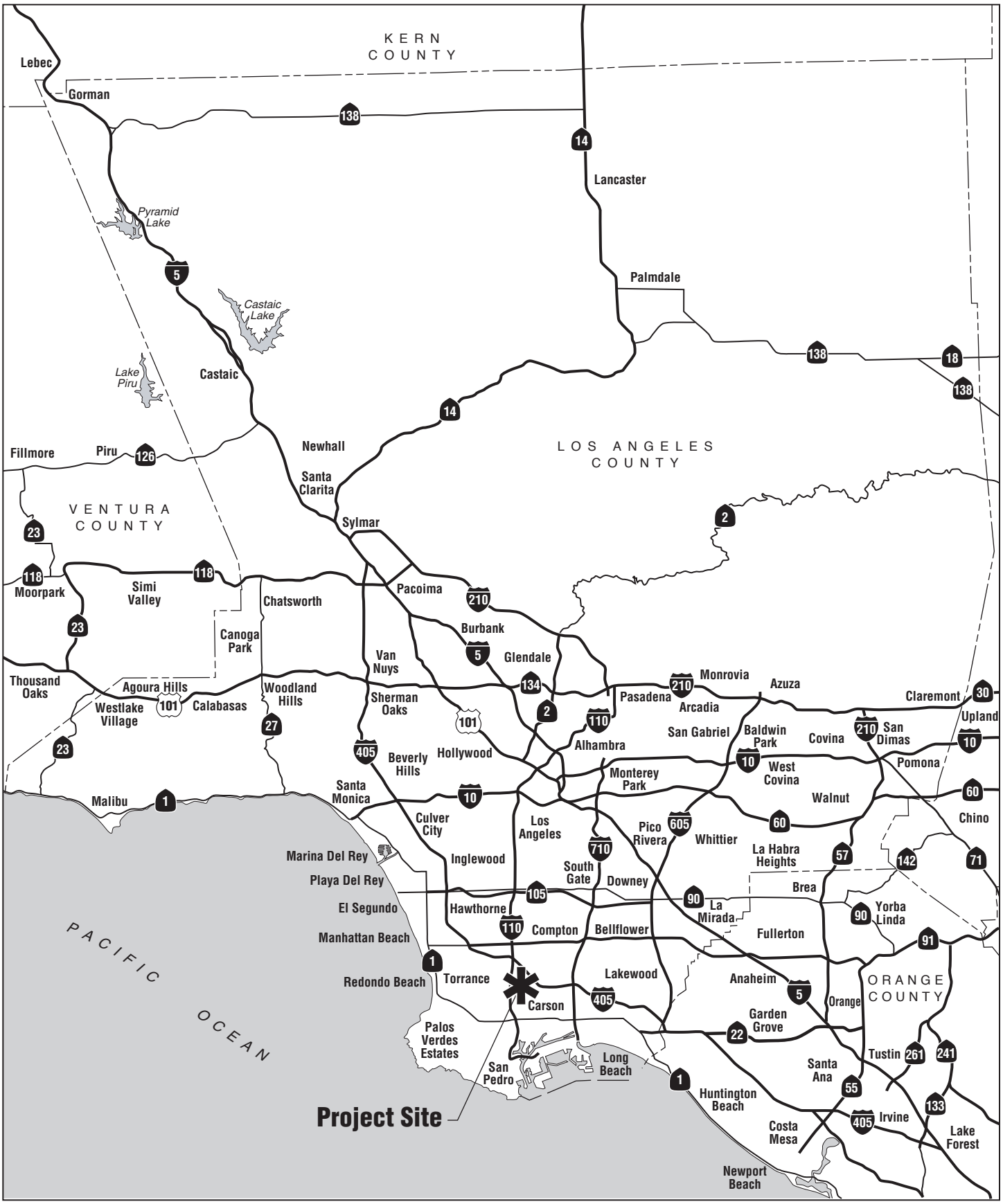
Parking levels would provide majority single parking with limited use of tandem spaces for some larger units where needed, with some provided commercial parking to be shared between residential guests and restaurant/café uses in Buildings B and C. Townhouse parking would be provided in independent two-car garages for all units, with a portion also provided in tandem configurations.

Two temporary loading spaces would be located adjacent to each building (time-signed and shared where parallel parking is provided) as convenient to building elevator use as possible and regulated by management operations.

Imperial Avalon Specific Plan

As a key component of the proposed project, the project applicant proposes the Imperial Avalon Specific Plan (Specific Plan) for the project site. The relatively large size of the site suggests that a specific plan is the proper planning mechanism to describe and codify the development plans. The Specific Plan will codify the development standards, design guidelines and implementation strategies for the project. The uses permitted in the Specific Plan would include residential, commercial, and independent living units for senior residents. The Specific Plan will be consistent with both the Goals and Policies identified in the existing Carson General Plan and the forthcoming updated General Plan.[1]

[1] The City of Carson is currently updating its General Plan with review and approval of key elements coming forward for approvals in 2020/2021.



NOT TO SCALE

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AIR QUALITY ASSESSMENT
IMPERIAL AVALON PROJECT

Regional Vicinity

Exhibit 1



Source: Google Earth Pro, 2019

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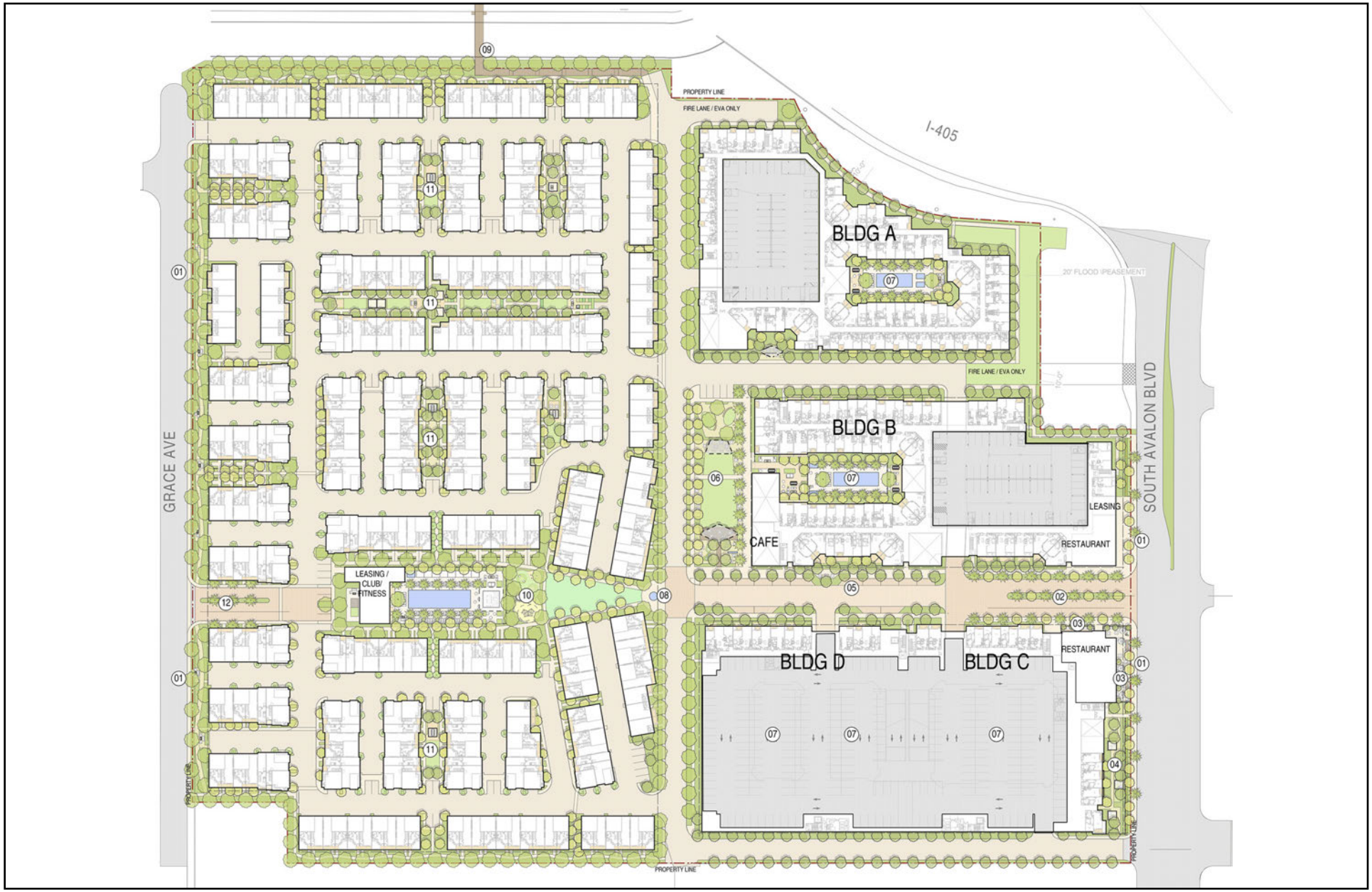
Project Site

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AIR QUALITY ASSESSMENT
IMPERIAL AVALON PROJECT

Site Vicinity

Exhibit 2



Source: Architects Orange, March 2021.

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08/2021 JN 175510

AIR QUALITY ASSESSMENT
IMPERIAL AVALON PROJECT

Conceptual Site Plan

Exhibit 3

2.0 ENVIRONMENTAL SETTING

The California Air Resources Board (CARB) divides the State into 15 air basins that share similar meteorological and topographical features. The project site lies within the northwestern portion of the South Coast Air Basin (Basin). The Basin is a 6,600 square mile area bounded by the Pacific Ocean to the west and the San Gabriel, San Bernardino, and San Jacinto Mountains to the north and east. The Basin includes all of Orange County and the non-desert portions of Los Angeles, Riverside, and San Bernardino Counties, in addition to the San Gorgonio Pass area in Riverside County. The Basin's terrain and geographical location (i.e., a coastal plain with connecting broad valleys and low hills) determine its distinctive climate.

The extent and severity of the air pollution problem in the Basin is a function of the area's natural physical characteristics (weather and topography), as well as man-made influences (development patterns and lifestyle). Factors such as wind, sunlight, temperature, humidity, rainfall, and topography all affect the accumulation and/or dispersion of pollutants throughout the Basin.

2.1 CLIMATE

The general region lies in the semi-permanent high-pressure zone of the eastern Pacific Ocean. As a result, the climate is mild, tempered by cool sea breezes. The climate consists of a semi-arid environment with mild winters, warm summers, moderate temperatures, and comfortable humidity. The typical mild climatological pattern is interrupted infrequently by periods of extremely hot weather, winter storms, or Santa Ana winds. Precipitation is limited to a few winter storms.

The average annual temperature varies little throughout the Basin, averaging 75 degrees Fahrenheit (°F). However, with a less pronounced oceanic influence, the eastern inland portions of the Basin show greater variability in annual minimum and maximum temperatures. All portions of the Basin have had recorded temperatures over 100°F in recent years.

Although the Basin has a semi-arid climate, the air near the surface is moist due to the presence of a shallow marine layer. Except for infrequent periods when dry, continental air is brought into the Basin by offshore winds, the ocean effect is dominant. Periods with heavy fog are frequent, and low stratus clouds, occasionally referred to as "high fog," are a characteristic climate feature. Annual average relative humidity is 70 percent at the coast and 57 percent in the eastern part of the Basin. Precipitation in the Basin is typically nine to 14 inches annually and is rarely in the form of snow or hail due to typically warm weather. The frequency and amount of rainfall is greater in the coastal areas of the Basin.

The height of the inversion is important in determining pollutant concentration. When the inversion is approximately 2,500 feet above sea level, the sea breezes carry the pollutants inland to escape over the mountain slopes or through the passes. At a height of 1,200 feet, the terrain prevents the pollutants from entering the upper atmosphere, resulting in a settlement in the

foothill communities. Below 1,200 feet, the inversion puts a tight lid on pollutants, concentrating them in a shallow layer over the entire coastal basin. Usually, inversions are lower before sunrise than during the day. Mixing heights for inversions are lower in the summer and more persistent, being partly responsible for the high levels of ozone (O_3) observed during summer months in the Basin. Smog in southern California is generally the result of these temperature inversions combining with coastal day winds and local mountains to contain the pollutants for long periods of time, allowing them to form secondary pollutants by reacting with sunlight. The Basin has a limited ability to disperse these pollutants due to typically low wind speeds.

The area in which the project is located offers clear skies and sunshine, yet is still susceptible to air inversions. These inversions trap a layer of stagnant air near the ground, where it is then further loaded with pollutants. These inversions cause haziness, which is caused by moisture, suspended dust, and a variety of chemical aerosols emitted by trucks, automobiles, furnaces, and other sources.

The City experiences average high temperatures of up to 79°F during the month of August, and average low temperatures of 49°F during the month of December. The City experiences an average of approximately 1.1 inches of precipitation per month, with the most precipitation occurring in the month of January.[2]

[2] Weather Spark, *Average Weather in Carson, California, United States*, https://weatherspark.com/y/1618/Average-Weather-in-Carson-California-United-States-Year-Round, accessed June 29, 2021.

3.0 STATE AND FEDERAL AMBIENT AIR QUALITY STANDARDS

3.1 AMBIENT AIR QUALITY STANDARDS

CARB and the U.S. Environmental Protection Agency (EPA) establish ambient air quality standards for major pollutants at thresholds intended to protect public health. The standards for some pollutants are based on other values such as protection of crops or avoidance of nuisance conditions. Table 3, *State and National Ambient Air Quality Standards and Attainment Status*, summarizes the California Ambient Air Quality Standards (CAAQS) and the National Ambient Air Quality Standards (NAAQS).

CARB designates all areas within the State as either attainment (having air quality better than the CAAQS) or nonattainment (having a pollution concentration that exceeds the CAAQS more than once in three years). Likewise, the EPA designates all areas of the U.S. as either being in attainment of the NAAQS or nonattainment if pollution concentrations exceed the NAAQS. Because attainment/nonattainment is pollutant-specific, an area may be classified as nonattainment for one pollutant and attainment for another. Similarly, because the State and national standards differ, an area could be classified as attainment for the Federal standard of a pollutant while it may be nonattainment for the State standard of the same pollutant. Some areas are unclassified, which means no monitoring data are available. Unclassified areas are considered to be in attainment. The attainment status for CAAQS and NAAQS of the South Coast Air Quality Management District (SCAQMD) where the proposed project is located is shown in Table 3 and discussed in more detail in Section 3.2, *Ambient Air Monitoring*.

3.2 AMBIENT AIR MONITORING

CARB monitors ambient air quality at approximately 250 air monitoring stations across the State. Air quality monitoring stations usually measure pollutant concentrations ten feet aboveground level; therefore, air quality is often referred to in terms of ground-level concentrations. The project site is located within Source Receptor Area (SRA) 4, South Coastal Los Angeles County. The closest air monitoring station to the project site is the Long Beach-Hudson Station. Local air quality data from 2017 to 2019 is provided in Table 4, *Summary of Air Quality Data*. Table 4 lists the monitored maximum concentrations and number of exceedances of Federal/State air quality standards for each year.

Table 3
State and National Ambient Air Quality Standards and Attainment Status

Pollutant	Averaging Time	California[1]		Federal[2]	
		Standard[3]	Attainment Status	Standards[3,4]	Attainment Status
Ozone (O_3)	1 Hour	0.09 ppm (180 μg/m³)	**Nonattainment**	N/A	N/A[5]
	8 Hours	0.070 ppm (137 μg/m³)	**Nonattainment**	0.070 ppm (137 μg/m³)	**Nonattainment**
Particulate Matter (PM_{10})	24 Hours	50 μg/m³	**Nonattainment**	150 μg/m³	Attainment/Maintenance
	Annual Arithmetic Mean	20 μg/m³	**Nonattainment**	N/A	N/A
Fine Particulate Matter ($PM_{2.5}$)	24 Hours	No Separate State Standard		35 μg/m³	**Nonattainment**
	Annual Arithmetic Mean	12 μg/m³	**Nonattainment**	12.0 μg/m³	**Nonattainment**
Carbon Monoxide (CO)	8 Hours	9.0 ppm (10 mg/m³)	Attainment	9 ppm (10 mg/m³)	Attainment/Maintenance
	1 Hour	20 ppm (23 mg/m³)	Attainment	35 ppm (40 mg/m³)	Attainment/Maintenance
Nitrogen Dioxide (NO_2)[5]	Annual Arithmetic Mean	0.030 ppm (57 μg/m³)	N/A	53 ppb (100 μg/m³)	Attainment/Maintenance
	1 Hour	0.18 ppm (339 μg/m³)	Attainment	100 ppb (188 μg/m³)	Attainment/Maintenance
Lead (Pb)[7,8]	30 days Average	1.5 μg/m³	Attainment	N/A	N/A
	Calendar Quarter	N/A	N/A	1.5 μg/m³	**Nonattainment**
	Rolling 3-Month Average	N/A	N/A	0.15 μg/m³	**Nonattainment**
Sulfur Dioxide (SO_2)[6]	24 Hours	0.04 ppm (105 μg/m³)	Attainment	0.14 ppm (for certain areas)	Unclassified/Attainment
	3 Hours	N/A	N/A	N/A	N/A
	1 Hour	0.25 ppm (655 μg/m³)	Attainment	75 ppb (196 μg/m³)	N/A
	Annual Arithmetic Mean	N/A	N/A	0.30 ppm (for certain areas)	Unclassified/Attainment
Visibility-Reducing Particles[9]	8 Hours (10 a.m. to 6 p.m., PST)	Extinction coefficient = 0.23 km@<70% RH	Unclassified	**No Federal Standards**	
Sulfates	24 Hour	25 μg/m³	Attainment		
Hydrogen Sulfide	1 Hour	0.03 ppm (42 μg/m³)	Unclassified		
Vinyl Chloride[7]	24 Hour	0.01 ppm (26 μg/m³)	N/A		

Notes: μg/m³ = micrograms per cubic meter; ppm = parts per million; ppb = parts per billion; km = kilometer(s); RH = relative humidity; PST = Pacific Standard Time; N/A = Not Applicable

1. 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.
2. National standards (other than ozone, particulate matter, and those based on annual arithmetic mean) are not to be exceeded more than once a year. The ozone standard is attained when the fourth highest 8-hour concentration measured at each site in a year, averaged over three years, is equal to or less than the standard. For PM_{10}, the 24-hour standard is attained when the expected number of days per calendar year with a 24-hour average concentration above 150 μg/m³ is equal to or less than one. For $PM_{2.5}$, the 24-hour standard is attained when 98 percent of the daily concentrations, averaged over three years, are equal to or less than the standard.
3. Concentration expressed first in units in which it was promulgated. Equivalent units given in parentheses are based upon a reference temperature of 25°C and a reference pressure of 760 torr. Most measurements of air quality are to be corrected to a reference temperature of 25°C and a reference pressure of 760 torr; ppm in this table refers to ppm by volume, or micromoles of pollutant per mole of gas.
4. National Primary Standards: The levels of air quality necessary, with an adequate margin of safety, to protect the public health.
5. To attain the 1-hour national standard, the 3-year average of the annual 98th percentile of the 1-hour daily maximum concentrations at each site must not exceed 100 ppb. Note that the national 1-hour standard is in units of parts per billion (ppb). California standards are in units of parts per million (ppm). To directly compare the national 1-hour standard to the California standards the units can be converted from ppb to ppm. In this case, the national standard of 100 ppb is identical to 0.100 ppm.
6. On June 2, 2010, a new 1-hour SO_2 standard was established and the existing 24-hour and annual primary standards were revoked. To attain the 1-hour national standard, the 3-year average of the annual 99th percentile of the 1-hour daily maximum concentrations at each site must not exceed 75 ppb. The 1971 SO_2 national standards (24-hour and annual) remain in effect until one year after an area is designated for the 2010 standard, except that in areas designated nonattainment for the 1971 standards, the 1971 standards remain in effect until implementation plans to attain or maintain the 2010 standards are approved. Note that the 1-hour national standard is in units of ppb. California standards are in units of parts per million (ppm). To directly compare the 1-hour national standard to the California standard the units can be converted to ppm. In this case, the national standard of 75 ppb is identical to 0.075 ppm.
7. CARB has identified lead and vinyl chloride as 'toxic air contaminants' with no threshold level of exposure for adverse health effects determined. These actions allow for the implementation of control measures at levels below the ambient concentrations specified for these pollutants.
8. The national standard for lead was revised on October 15, 2008 to a rolling 3-month average. The 1978 lead standard (1.5 μg/m³ as a quarterly average) remains in effect until one year after an area is designated for the 2008 standard, except that in areas designated nonattainment for the 1978 standard, the 1978 standard remains in effect until implementation plans to attain or maintain the 2008 standard are approved.
9. In 1989, CARB converted both the general statewide 10-mile visibility standard and the Lake Tahoe 30-mile visibility standard to instrumental equivalents, which are "extinction of 0.23 per kilometer" and "extinction of 0.07 per kilometer" for the statewide and Lake Tahoe Air Basin standards, respectively.

Source: California Air Resources Board, *Ambient Air Quality Standards Chart,* http://www.arb.ca.gov/research/aaqs/aaqs2.pdf, May 4, 2016.

Table 4
Summary of Air Quality Data

Pollutant	California Standard	Federal Primary Standard	Year	Maximum Concentration[3]	Days (Samples) State/Federal Std. Exceeded
Ozone (O_3)[1] (1-hour)	0.09 ppm for 1 hour	NA[6]	2017 2018 2019	0.082 ppm 0.074 0.075	0/0 0/0 0/0
Ozone (O_3)[1] (8-hour)	0.070 ppm for 8 hours	0.070 ppm for 8 hours	2017 2018 2019	0.069 ppm 0.064 0.065	0/0 0/0 0/0
Carbon Monoxide (CO)[1] (1-hour)	20 ppm for 1 hour	35 ppm for 1 hour	2017 2018 2019	3.92 ppm 4.69 3.05	0/0 0/0 0/0
Nitrogen Dioxide (NO_2)[1]	0.18 ppm for 1 hour	0.100 ppm for 1 hour	2017 2018 2019	0.089 ppm 0.085 0.072	0/0 0/0 0/0
Fine Particulate Matter ($PM_{2.5}$)[2, 5]	No Separate Standard	35 µg/m^3 for 24 hours	2017 2018 2019	89.9 µg/m^3 111.0 45.4	NA/8 NA/9 NA/1
Coarse Particulate Matter (PM_{10})[1, 4, 5]	50 µg/m^3 for 24 hours	150 µg/m^3 for 24 hours	2017 2018 2019	79.0 µg/m^3 84.0 155.8	NA/0 25.8/0 24.4/6.1

Notes: ppm = parts per million; µg/m^3 = micrograms per cubic meter; NA = not applicable
1. Data collected from the Long Beach-Hudson Monitoring Station located at 2425 Webster Avenue, Long Beach, California 90810.
2. Data collected from the Long Beach-Route 710 Monitoring Station located at 5895 Long Beach Boulevard, Long Beach, California 90806.
3. Maximum concentration is measured over the same period as the California Standards.
4. PM_{10} exceedances are based on State thresholds established prior to amendments adopted on June 20, 2002.
5. PM_{10} and $PM_{2.5}$ exceedances are derived from the number of samples exceeded, not days.
6. The Federal standard was revoked in June 2005.

Sources:
California Air Resources Board, *ADAM Air Quality Data Statistics*, http://www.arb.ca.gov/adam/, accessed April 9, 2021.
California Air Resources Board, *AQMIS2: Air Quality Data*, https://www.arb.ca.gov/aqmis2/aqdselect.php, accessed April 9, 2021.

Ozone. O_3 occurs in two layers of the atmosphere. The layer surrounding the Earth's surface is the troposphere. The troposphere extends approximately ten miles above ground level, where it meets the second layer, the stratosphere. The stratospheric (the "good" O_3) layer extends upward from about ten to 30 miles and protects life on earth from the sun's harmful ultraviolet rays (UV-B). "Bad" O_3 is a photochemical pollutant, and needs volatile organic compounds (VOCs), nitrogen oxides (NO_X) and sunlight to form; therefore, VOCs and NO_X are O_3 precursors. VOCs and NO_X are emitted from various sources throughout the City. Significant O_3 formation generally requires an adequate amount of precursors in the atmosphere and several hours in a stable atmosphere with strong sunlight.

Many respiratory ailments, as well as cardiovascular disease, are aggravated by exposure to high O_3 levels. O_3 also damages natural ecosystems (such as forests and foothill plant communities) and damages agricultural crops and some man-made materials (such as rubber, paint, and

plastics). Societal costs from O_3 damage include increased healthcare costs, the loss of human and animal life, accelerated replacement of industrial equipment and reduced crop yields.

Carbon Monoxide (CO). CO is an odorless, colorless toxic gas that is emitted by mobile and stationary sources as a result of incomplete combustion of hydrocarbons or other carbon-based fuels. In cities, automobile exhaust can cause as much as 95 percent of all CO emissions. At high concentrations, CO can reduce the oxygen-carrying capacity of the blood and cause headaches, dizziness, and unconsciousness.

Nitrogen Dioxide (NO_2). NO_2 is a family of highly reactive gases that are a primary precursor to the formation of ground-level O_3 and react in the atmosphere to form acid rain. NO_2 (often used interchangeably with NO_X) is a reddish-brown gas that can cause breathing difficulties at high levels. Peak readings of NO_2 occur in areas that have a high concentration of combustion sources (e.g., motor vehicle engines, power plants, refineries, and other industrial operations).

NO_2 can irritate and damage the lungs, and lower resistance to respiratory infections such as influenza. The health effects of short-term exposure are still unclear. However, continued or frequent exposure to NO_2 concentrations that are typically much higher than those normally found in the ambient air may increase acute respiratory illnesses in children and increase the incidence of chronic bronchitis and lung irritation. Chronic exposure to NO_2 may aggravate eyes and mucus membranes and cause pulmonary dysfunction.

Coarse Particulate Matter (PM_{10}). PM_{10} refers to suspended particulate matter, which is smaller than ten microns, or ten one-millionths of a meter. PM_{10} arises from sources such as road dust, diesel soot, combustion products, construction operations, and dust storms. PM_{10} scatters light and significantly reduces visibility. In addition, these particulates penetrate the lungs and can potentially damage the respiratory tract. On June 19, 2003, CARB adopted amendments to the Statewide 24-hour particulate matter standards based upon requirements set forth in the Children's Environmental Health Protection Act (Senate Bill 25).

Fine Particulate Matter ($PM_{2.5}$). Due to recent increased concerns over health impacts related to $PM_{2.5}$ (particulate matter 2.5 microns in diameter or less), both State and Federal $PM_{2.5}$ standards have been created. Particulate matter impacts primarily affect infants, children, the elderly, and those with pre-existing cardiopulmonary disease. In 1997, the EPA announced new $PM_{2.5}$ standards. Industry groups challenged the new standard in court and the implementation of the standard was blocked. However, upon appeal by the EPA, the U.S. Supreme Court reversed this decision and upheld the EPA's new standards.

On June 20, 2002, CARB adopted amendments for Statewide annual ambient particulate matter air quality standards. These standards were revised and established due to increasing concerns by CARB that previous standards were inadequate, as almost everyone in California is exposed to levels at or above the current State standards during some parts of the year, and the Statewide

potential for significant health impacts associated with particulate matter exposure was determined to be large and wide-ranging.

Reactive Organic Gases (ROGs) and Volatile Organic Compounds. Hydrocarbons are organic gases that are formed solely of hydrogen and carbon. There are several subsets of organic gases including ROGs and VOCs. Both ROGs and VOCs are emitted from the incomplete combustion of hydrocarbons or other carbon-based fuels. The major sources of hydrocarbons are combustion engine exhaust, oil refineries, and oil-fueled power plants; other common sources are petroleum fuels, solvents, dry cleaning solutions, and paint (via evaporation).

3.3 SENSITIVE RECEPTORS

Sensitive populations are more susceptible to the effects of air pollution than the general population. Sensitive populations (sensitive receptors) that are in proximity to localized sources of toxics and CO are of particular concern. Land uses considered sensitive receptors include residences, schools, playgrounds, childcare centers, long-term health care facilities, rehabilitation centers, convalescent centers, and retirement homes. Table 5, *Sensitive Receptors*, lists the distances and locations of sensitive receptors within the project vicinity. The distances depicted in Table 5 are based on the distance from the project site to the outdoor activity area of the closest receptor.

Table 5
Sensitive Receptors

Type	Name	Distance from Project Site (feet)	Direction from Project Site	Location
Residential	Residential Uses	2,721	Northeast	950 East Del Amo Boulevard, Carson, CA 90746
		3,533	North	600 East Turmont Street, Carson, CA 90746
		Adjoining	South	Along East 213th Street
		820	Southeast	802 East 213th Street, Carson, CA 90745
		Adjoining	West	Along Grace Avenue
Schools	Golden Wings Academy Inc.	1,503	North	20715 South Avalon Boulevard, Suite 360, Carson, CA 90746
	Carnegie Middle School	2,248	Southeast	21820 Bonita Street, Carson, CA 90745
	Bonita Street Elementary School	2,711	Southeast	21929 Bonita Street, Carson, CA 90745
	St. Philomena School	3,235	Southwest	21832 South Main Street, Carson, CA 90745
	Carson Street Elementary School	2,337	Southwest	161 East Carson Street, Carson, CA 90745
Places of Worship[2]	Judson Baptist Church	4,086	South	451 East 223rd Street, Carson, CA 90745
	First Christian Church of Carson	3,227	South	356 East 220th Street, Carson, CA 90745
	Bread of Life Christian Center Church	2,486	Northeast	20620 Leapwood Avenue, Suite H, Carson, CA 90746
	Torrance Apostolic Tabernacle	2,687	Southwest	21818 Dolores Street, Carson, CA 90745
	Carson Spanish Sda Church	2,756	Southwest	21828 Dolores Street, Carson, CA 90745
	Harbor Community Church	2,577	Southwest	21739 Dolores Street, Carson, CA 90745
	St. Philomena Church	3,235	Southwest	21900 South Main Street, Carson, CA 90745
	Greater Love Reformed Baptist Church	3,453	West	20926 South Main Street, Carson, CA 90745
	Glory Christian Fellowship Church	4,078	Northwest	225 Torrance Boulevard, Suite D, Carson, CA 90745

Table 5 (continued)
Sensitive Receptors

Type	Name	Distance from Project Site (feet)	Direction from Project Site	Location
Recreational	Del Amo Park	3,213	North	703 East Del Amo Boulevard, Carson, CA 90746
	The Links at Victoria Golf Course	3,143	North	340 M.L.K. Jr. Street, Carson, CA 90746
	Perry Street Mini-Park	3,531	Southeast	East 215th Place and South Perry Street, Carson, CA 90745
	Calas Park	3,633	Southeast	1000 East 220th Street, Carson, CA 90745
	Carson Park	2,112	West	21411 Orrick Avenue, Carson, CA 90745

Note:
1 – Distances are measured from the exterior project boundary only and not from individual construction areas within the interior of the project site.
2 – This analysis conservatively considers places of worship as sensitive receptors. The SCAQMD does not recognize places of worship as sensitive receptors.

Source: Google Earth, 2019.

4.0 REGULATORY SETTING

4.1 FEDERAL

Federal Clean Air Act. The Federal Clean Air Act (FCAA) of 1970 and the FCAA Amendments of 1971 required the EPA to establish NAAQS, with states retaining the option to adopt more stringent standards or to include other specific pollutants. In 2007, the Supreme Court found that carbon dioxide is an air pollutant covered by the FCAA; however, no NAAQS have been established for carbon dioxide.

The EPA has classified air basins (or portions thereof) as being in attainment, nonattainment, or unclassified for each criteria air pollutant, based on whether or not the NAAQS have been achieved. If an area is designated unclassified, it is because inadequate air quality data were available as a basis for a nonattainment or attainment designation. Table 3 lists the Federal attainment status of the Basin for criteria pollutants.

4.2 STATE

California Clean Air Act. The California Clean Air Act (CCAA) allows the State to adopt ambient air quality standards and other regulations provided that they are at least as stringent as Federal standards. CARB, a part of the California Environmental Protection Agency, is responsible for the coordination and administration of both Federal and State air pollution control programs, including setting the CAAQS. CARB also conducts research, compiles emission inventories, develops suggested control measures, and provides oversight of local programs. CARB establishes emissions standards for motor vehicles sold in California, consumer products (such as hairspray, aerosol paints, and barbecue lighter fluid), and various types of commercial equipment. It also sets fuel specifications to further reduce vehicular emissions.

California State Implementation Plan. CARB is responsible for developing California' State Implementation Plan (SIP). The SIP is a living document that is periodically modified to reflect the latest emissions inventories, plans, and rules and regulations of air basins as reported by the agencies with jurisdiction over them. The FCAA and subsequent FCAA Amendments dictate that states containing areas violating the NAAQS revise their SIPs to include extra control measures to reduce air pollution. The SIP includes strategies and control measures to attain the NAAQS by deadlines established by the FCAA. The EPA has the responsibility to review all SIPs to determine if they conform to the requirements of the FCAA.

State law makes CARB the lead agency for all purposes related to the SIP. Local air districts and other agencies prepare SIP elements and submit them to CARB for review and approval. CARB then forwards SIP revisions to the EPA for approval and publication in the Federal Register.

4.3 REGIONAL

South Coast Air Quality Management District. The SCAQMD is one of 35 air quality management districts that have prepared AQMP's to accomplish a five-percent annual reduction in emissions. On March 3, 2017, the SCAQMD Governing Board approved the 2016 AQMP, which is a regional blueprint for achieving air quality standards and healthful air. The 2016 AQMP represents a new approach, focusing on available, proven, and cost-effective alternatives to traditional strategies, while seeking to achieve multiple goals in partnership with other entities promoting reductions in greenhouse gases (GHGs) and toxic risk, as well as efficiencies in energy use, transportation, and goods movement. The 2016 AQMP incorporates the latest scientific and technical information and planning assumptions, including the latest applicable growth assumptions, Regional Transportation Plan/Sustainable Communities Strategy, and updated emission inventory methodologies for various source categories. The 2016 AQMP relies on a multi-level partnership of governmental agencies at the Federal, State, regional, and local level. These agencies (EPA, CARB, local governments, Southern California Association of Governments [SCAG] and the SCAQMD) are the primary agencies that implement the AQMP programs.

The 2016 AQMP incorporates the latest scientific and technical information and planning assumptions, including the latest applicable growth assumptions, updated emission inventory methodologies for various source categories. Additionally, the 2016 AQMP utilized information and data from the SCAG's 2016-2040 *Regional Transportation Plan/Sustainable Communities Strategy* (2016-2040 RTP/SCS). While SCAG has recently adopted the 2020-2045 RTP/SCS, SCAQMD has not released an updated AQMP. The 2016 AQMP includes integrated strategies and measures to meet the NAAQS.

To ensure air quality goals will be met while maximizing benefits and minimizing adverse impacts to the regional economy, the following policy objectives have guided the development of the 2016 AQMP:

- Eliminate reliance on future technologies (FCAA Section 182(e)(5)) measures to the maximum extent feasible;

- Calculate and take credit for co-benefits from other planning efforts;

- Develop a strategy with fair-share emission reductions at the Federal, State, and local levels;

- Invest in strategies and technologies meeting multiple objectives regarding air quality, climate change, air toxics exposure, energy, and transportation;

- Identify and secure significant funding for incentives to implement early deployment and commercialization of zero and near-zero technologies;

- Enhance the socioeconomic analysis and pursue the most efficient and cost-effective path to achieve multi-pollutant and multi-deadline targets; and

- Prioritize enforceable regulatory measures as well as non-regulatory, innovative and "win-win" approaches for emission reductions.

SCAQMD is currently working on the next iteration of the AQMP, the *2022 Air Quality Management Plan* (2022 AQMP). The 2022 AQMP will incorporate the recently adopted SCAG's 2020-2045 *Regional Transportation Plan/Sustainable Communities Strategy* (2020-2045 RTP/SCS). However, until the adoption of the 2022 AQMP, project AQMP consistency will be analyzed off the 2016 AQMP and the RTP/SCS that was adopted at the time, the 2016-2040 RTP/SCS.

In addition to the 2016 AQMP and its rules and regulations, the SCAQMD published the *CEQA Air Quality Handbook*. The SCAQMD *CEQA Air Quality Handbook* provides guidance to assist local government agencies and consultants in developing the environmental documents required by CEQA. With the help of the *CEQA Air Quality Handbook*, local land use planners and other consultants are able to analyze and document how proposed and existing projects affect air quality and should be able to fulfill the requirements of the CEQA review process. The SCAQMD is in the process of developing an *Air Quality Analysis Guidance Handbook* to replace the current *CEQA Air Quality Handbook* approved by the SCAQMD Governing Board in 1993.

Southern California Association of Governments. The SCAG 2016–2040 RTP/SCS was adopted on April 7, 2016. The 2016–2040 RTP/SCS reaffirms the land use policies that were incorporated into the 2012–2035 RTP/SCS. These foundational policies, which guided the development of the 2016–2040 RTP/SCS's strategies for land use, include the following:

- Identify regional strategic areas for infill and investment;
- Structure the plan on a three-tiered system of centers development;[3]
- Develop "Complete Communities";
- Develop nodes on a corridor;
- Plan for additional housing and jobs near transit;
- Plan for changing demand in types of housing;
- Continue to protect stable, existing single-family areas;
- Ensure adequate access to open space and preservation of habitat; and
- Incorporate local input and feedback on future growth.

The 2016–2040 RTP/SCS recognizes that transportation investments and future land use patterns are inextricably linked, and continued recognition of this close relationship will help the region make choices that sustain existing resources and expand efficiency, mobility, and accessibility for

[3] Complete language: "Identify strategic centers based on a three-tiered system of existing, planned and potential relative to transportation infrastructure. This strategy more effectively integrates land use planning and transportation investment." A more detailed description of these strategies and policies can be found on pages 90–92 of the SCAG 2008 Regional Transportation Plan, adopted in May 2008.

people across the region. In particular, the 2016–2040 RTP/SCS draws a closer connection between where people live and work, and it offers a blueprint for how southern California can grow more sustainably. The 2016–2040 RTP/SCS also includes strategies focused on compact infill development and economic growth by building the infrastructure the region needs to promote the smooth flow of goods and easier access to jobs, services, educational facilities, healthcare and more.

On September 3, 2020, the Regional Council of SCAG formally adopted the *2020–2045 Regional Transportation Plan/Sustainable Communities Strategy* (2020–2045 RTP/SCS). The SCS portion of the 2020-2045 RTP/SCS highlights strategies for the region to reach the regional target of reducing GHGs from autos and light-duty trucks by 8 percent per capita by 2020, and 19 percent by 2035 (compared to 2005 levels). Specially, these strategies are:

- Focus growth near destinations and mobility options;
- Promote diverse housing choices;
- Leverage technology innovations;
- Support implementation of sustainability policies; and
- Promote a green region

Furthermore, the 2020-2045 RTP/SCS discusses a variety of land use tools to help achieve the state-mandated reductions in GHG emissions through reduced per capita vehicle miles traveled (VMT). Some of these tools include center focused placemaking, focusing on priority growth areas, job centers, transit priority areas, as well as high quality transit areas and -green regions.

4.4 LOCAL

4.4.1 CITY OF CARSON

General Plan. The *Carson General Plan* (General Plan) Air Quality Element discusses how the City plans on reducing total air emissions, educating the public on pollution control measures, minimizing dust generation, and encouraging the use of best available technology within its jurisdiction. The following General Plan goals and policies are applicable to the proposed project:

Dust Generation

> ***Goal AQ-1:*** *Reduced particulate emissions from paved and unpaved surfaces and during building construction.*
>
> > *Policy AQ-1.1: Continue to enforce ordinances which address dust generation and mandate the use of dust control measures to minimize this nuisance.*

Regional Air Quality

Goal AQ-2: *Air quality which meets State and Federal standards.*

Policy AQ-2.5: Continue to improve existing sidewalks, bicycle trails, and parkways, and require sidewalk and bicycle trail improvements and parkways for new developments.

Policy AQ-2.6: Encourage in-fill development near activity centers and along transportation routes.

Policy AQ-2.7: Reduce air pollutant emissions by mitigating air quality impacts associated with development projects to the greatest extent possible.

5.0 POTENTIAL AIR QUALITY IMPACTS

5.1 CEQA THRESHOLDS

Appendix G of the CEQA Guidelines contains the Environmental Checklist form that was used during the preparation of this study. Accordingly, a project may create a significant environmental impact if it causes one or more of the following to occur:

- Conflict with or obstruct implementation of the applicable air quality plan (refer to Impact Statement AQ-1);
- Result in a cumulatively considerable net increase of any criteria pollutant for which the Project region is non-attainment under an applicable Federal or State ambient air quality standard (refer to Impact Statement AQ-2);
- Expose sensitive receptors to substantial pollutant concentrations (refer to Impact Statement AQ-3); and
- Result in other emissions (such as those leading to odors) adversely affecting a substantial number of people (refer to Impact Statement AQ-4).

Based on these standards and thresholds, the effects of the proposed project have been categorized as either a "less than significant impact" or a "potentially significant impact." Mitigation measures are recommended for potentially significant impacts.

AIR QUALITY THRESHOLDS

Under CEQA, the SCAQMD is an expert commenting agency on air quality within its jurisdiction or impacting its jurisdiction. Under the FCAA, the SCAQMD has adopted Federal attainment plans for O_3 and PM_{10}. The SCAQMD reviews projects to ensure they do not: (1) cause or contribute to any new violation of any air quality standard; (2) increase the frequency or severity of any existing violation of any air quality standard; or (3) delay timely attainment of any air quality standard or any required interim emission reductions or other milestones of any Federal attainment plan.

The *CEQA Air Quality Handbook* also provides significance thresholds for both construction and operation of projects within the SCAQMD's jurisdiction. If the SCAQMD thresholds are exceeded, a potentially significant impact could result. However, ultimately the lead agency determines the thresholds of significance for impacts. If a project proposes development in excess of the established thresholds, as outlined in Table 6, *South Coast Air Quality Management District Emissions Thresholds*, a significant air quality impact may occur and additional analysis is warranted to fully assess the significance of impacts.

Table 6
South Coast Air Quality Management District Emissions Thresholds

Phase	Pollutant (pounds per day)					
	ROG	NO_X	CO	SO_X	PM_{10}	$PM_{2.5}$
Construction	75	100	550	150	150	55
Operational	55	55	550	150	150	55

Notes: ROG = reactive organic gases; NO_X = nitrous oxides; CO = carbon monoxide; SO_X = sulfur oxides; PM_{10} = particulate matter 10 microns in diameter or less; $PM_{2.5}$ = particulate matter 2.5 microns in diameter or less

Source: South Coast Air Quality Management District, *South Coast AQMD Air Quality Significance Thresholds*, April 2019.

Local Carbon Monoxide Standards

A project would result in a local air quality impact if the project results in increased traffic volumes and/or decreases in level of service (LOS) that would result in an exceedance of the CO ambient air quality standards of 20 parts per million (ppm) for 1-hour CO concentration levels, and 9 ppm for 8-hour CO concentration levels. If the CO concentrations at potentially impacted intersections with the project are lower than the standards, then there is no significant impact. If future CO concentrations with the project are above the standard, then the project would have a significant local air quality impact.

Localized Significance Thresholds

Localized significance thresholds (LSTs) were developed in response to SCAQMD Governing Boards' Environmental Justice Enhancement Initiative (I-4). The SCAQMD provided the *Final Localized Significance Threshold Methodology* (dated July 2008) for guidance. The LST methodology assists lead agencies in analyzing localized impacts associated with site-specific projects. The SCAQMD provides the LST lookup tables for one-, two-, and five-acre projects emitting CO, NO_X, or PM_{10}. The LST methodology and associated mass rates are not designed to evaluate localized impacts from mobile sources traveling over the roadways. The SCAQMD recommends that any project over five acres should perform air quality dispersion modeling to assess impacts to nearby sensitive receptors.

Cumulative Emissions Thresholds

The 2016 AQMP was prepared to accommodate growth, meet State and Federal air quality standards, and minimize the fiscal impact that pollution control measures have on the local economy. According to the *CEQA Air Quality Handbook*, project-related emissions that fall below the established construction and operational thresholds are considered less than significant.

O_3, NO_X, VOC, and CO have been decreasing in the Basin since 1975 and are projected to continue to decrease through 2020. These decreases result primarily from motor vehicle controls and reductions in evaporative emissions. Although vehicle miles traveled in the Basin continue to increase, NO_x and VOC levels are decreasing because of the mandated controls on motor vehicles

and the replacement of older polluting vehicles with lower-emitting vehicles. NO_X emissions from electric utilities have also decreased due to use of cleaner fuels and renewable energy. The overall trends of PM_{10} and $PM_{2.5}$ in the air (not emissions) show an overall improvement since 1975. Direct emissions of PM_{10} have remained somewhat constant in the Basin and direct emissions of $PM_{2.5}$ have decreased slightly since 1975. Area wide sources (e.g., fugitive dust from roads, dust from construction and demolition, and other sources) contribute the greatest amount of direct particulate matter emissions.

Part of the SCAQMD's control process in improving air quality in the Basin is based on the uniform CEQA review procedures required by SCAQMD's *CEQA Air Quality Handbook*. The single threshold of significance used to assess direct and cumulative project impacts has in fact "worked" as evident by the Basin's air quality dramatically improving over the past decades. The SCAQMD thresholds of significance are based on factual and scientific data and are therefore appropriate thresholds of significance to use for this project.

5.2 IMPACT ANALYSES

AQ-1 CONFLICT WITH OR OBSTRUCT IMPLEMENTATION OF THE APPLICABLE AIR QUALITY PLAN?

On March 3, 2017, the SCAQMD Governing Board adopted the 2016 AQMP, which incorporates the latest scientific and technical information and planning assumptions, including the latest applicable growth assumptions, 2016–2040 RTP/SCS, and updated emission inventory methodologies for various source categories. Additionally, the 2016 AQMP utilized information and data from the SCAG and its 2016-2040 RTP/SCS. While SCAG has recently adopted the 2020-2045 RTP/SCS, SCAQMD has not released an updated AQMP. As such, this consistency analysis is based off the 2016 AQMP and the RTP/SCS that was adopted at the time, the 2016-2040 RTP/SCS. According to the SCAQMD's *CEQA Air Quality Handbook*, two main criteria must be addressed.

Criterion 1:

With respect to the first criterion, SCAQMD methodologies require that an air quality analysis for a project include forecasts of project emissions in relation to contributing to air quality violations and delay of attainment.

a) Would the project result in an increase in the frequency or severity of existing air quality violations?

Since the consistency criteria identified under the first criterion pertain to pollutant concentrations, rather than to total regional emissions, an analysis of a project's pollutant emissions relative to localized pollutant concentrations associated with the CAAQS and NAAQS is used as the basis for evaluating project consistency. As discussed under Impact

Statements AQ-2 and AQ-3, the project's short-term construction emissions, long-term operational emissions, and localized concentrations of CO, NO_X, PM_{10}, and $PM_{2.5}$ would be less than significant with implementation of Project Design Feature AQ-1. Project Design Feature AQ-1 would require that all diesel-fueled construction meet EPA-certified Tier 4 Interim/Final emissions standards during all phases of construction. Therefore, the project would not result in an increase in the frequency or severity of existing air quality violations. Because VOCs are not a criteria pollutant, there is no ambient standard or localized threshold for VOCs. Due to the role VOC plays in O_3 formation, it is classified as a precursor pollutant and only a regional emissions threshold has been established. As such, the project would not cause or contribute to localized air quality violations or delay the attainment of air quality standard or interim emissions reductions specified in the AQMP.

b) *Would the project cause or contribute to new air quality violations?*

As discussed in Impact Statements AQ-2 and AQ-3, construction and operation of the proposed project would result in emissions that would be below the SCAQMD construction and operational thresholds with implementation of Project Design Feature AQ-1. Therefore, the proposed project would not have the potential to cause or contribute to a violation of the ambient air quality standards.

c) *Would the project delay timely attainment of air quality standards or the interim emissions reductions specified in the AQMP?*

As discussed in Impact Statement AQ-3, the proposed project would result in less than significant impacts with regard to localized concentrations during project construction and operations. As such, the proposed project would not delay the timely attainment of air quality standards or 2016 AQMP emissions reductions.

Criterion 2:

With respect to the second criterion for determining consistency with SCAQMD and SCAG air quality policies, it is important to recognize that air quality planning within the Basin focuses on attainment of ambient air quality standards at the earliest feasible date. Projections for achieving air quality goals are based on assumptions regarding population, housing, and growth trends. Thus, the SCAQMD's second criterion for determining project consistency focuses on whether or not the project exceeds the assumptions utilized in preparing the forecasts presented in the 2016 AQMP. Determining whether or not a project exceeds the assumptions reflected in the 2016 AQMP involves the evaluation of the following criterion.

a) *Would the project be consistent with the population, housing, and employment growth projections utilized in the preparation of the AQMP?*

A project is consistent with the 2016 AQMP in part if it is consistent with the population, housing, and employment assumptions that were used in the development of the 2016 AQMP. In the case of the 2016 AQMP, three sources of data form the basis for the projections of air pollutant emissions: the City's General Plan, SCAG's regional growth forecast, and the SCAG 2016-2040 RTP/SCS. The 2016-2040 RTP/SCS also provides socioeconomic forecast projections of regional population growth.

The General Plan designates the project site for two different uses, Regional Commercial (RC) and Low Density Residential (LDR). The project site is zoned Commercial, Automotive and RM-8-D. Per the City's Zoning Code, "D" identifies a Design Overlay designation, created "*primarily to provide for Site Plan and Design Review of future development within the designated areas in order to achieve special standards of design, architectural quality, style and compatibility, landscape treatment, and functional integration of neighboring developments*".

The project proposes a mixed-use development in accordance with the Specific Plan. The Specific Plan will codify the development standards, design guidelines and implementation strategies for the project. The uses permitted in the Specific Plan would include residential, commercial, and independent living units for senior residents. The project would require General Plan and Zoning Code Amendments to accommodate the Specific Plan. Therefore, the proposed project would be consistent with the General Plan and Zoning Code upon project approval.

The City's population estimate, as of January 2021, is 91,668 persons.[4] The project would induce population growth directly through the construction of 1,213 residential units. Assuming 100 percent occupancy, the maximum population growth associated with project implementation would be approximately 3,043 persons.[5] This growth would not cause SCAG's 2027 population forecast of 99,880 to be exceeded.[6] As the project would not cause SCAG's 2027 population forecast to be exceeded, the project would not cause the City's General Plan buildout population forecast to be exceeded. The population,

[4] California Department of Finance, *E-5 Population and Housing Estimates for Cities, Counties, and the State, January 1, 2011-2021, with 2010 Census Benchmark, May 2021*, http://www.dof.ca.gov/Forecasting/Demographics/Estimates/E-5/, accessed June 29, 2021.

[5] Based on persons per household rates within the *Household Size Analysis for New Apartment Development in Carson, California* prepared by RCLCO Real Estate Consulting (dated August 2020) and the *Carson General Plan, 2014-2021 Housing Element*, 2013, https://ci.carson.ca.us/content/files/pdfs/planning/Carson2014-2021HousingElement_FINAL%20Draft_withAppendices.pdf, accessed September 24, 2021.

[6] SCAG's growth forecasts for the years 2020 (i.e. 96,100 persons) and 2035 (i.e. 104,200 persons) were interpolated to determine the growth forecast for the project's 2027 opening year. (Source: Southern California Association of Governments, *2016-2040 RTP/SCS Final Growth Forecast by Jurisdiction*, https://scag.ca.gov/sites/main/files/file-attachments/2016_2040rtpscs_finalgrowthforecastbyjurisdiction.pdf?1605576071, accessed February 25, 2021.)

housing, and employment forecasts, which are adopted by SCAG's Regional Council, are based on the local plans and policies applicable to the City. Additionally, as the SCAQMD has incorporated these same projections into the 2016 AQMP, it can be concluded that the proposed project would be consistent with the projections.

b) Would the project implement all feasible air quality mitigation measures?

Compliance with all feasible emission reduction rules and measures identified by the SCAQMD would be required as identified in Impact Statement AQ-2 and AQ-3. Additionally, the project would implement Project Design Feature AQ-1 to reduce diesel fuel emissions during construction. As a result, the project would result in a less than significant air quality impact during construction with implementation of Project Design Feature AQ-1. Thus, the proposed project would be consistent with this AQMP consistency criterion.

c) Would the project be consistent with the land use planning strategies set forth in the AQMP?

The project would implement various SCAG policies and would be consistent with the SCAG 2016-2040 RTP/SCS. The 2016-2040 RTP/SCS contains measures to achieve VMT reductions required under Senate Bill (SB) 375.[7] The proposed project is a mixed-use project located within a developed portion of the City and would be within a quarter mile of a major transit stop (i.e., Metro Avalon/213th bus stop), which would incentivize residents to take public transportation, would lower criteria pollutant emissions and is consistent with the goals of SB 375. In addition, the project would be consistent with the land use envisioned in the Specific Plan and General Plan with a General Plan amendment. As such, the proposed project meets this AQMP consistency criterion.

In conclusion, the determination of 2016 AQMP consistency is primarily concerned with the long-term influence of a project on air quality in the Basin. The proposed project would not result in a long-term impact on the region's ability to meet State and Federal air quality standards with implementation of Project Design Feature AQ-1. Also, the proposed project would be consistent with the goals and policies of the 2016 AQMP for control of fugitive dust. As discussed above, the proposed project's long-term influence would also be consistent with the SCAQMD and SCAG's goals and policies and is, therefore, considered consistent with the 2016 AQMP.

Project Design Features: Refer to Project Design Feature AQ-1, described below in Impact Statement AQ-2.

Mitigation Measures: No mitigation measures are required.

[7] Senate Bill (SB) 375 establishes mechanisms for the development of regional targets for reducing passenger vehicle greenhouse gas (GHG) emissions. Under SB 375, the California Air Resources Board is required, in consultation with the state's Metropolitan Planning Organizations, to set regional GHG reduction targets for the passenger vehicle and light-duty truck sector for 2020 and 2035.

AQ-2 RESULT IN A CUMULATIVELY CONSIDERABLE NET INCREASE OF ANY CRITERIA POLLUTANT FOR WHICH THE REGION IS NONATTAINMENT FOR FEDERAL OR STATE STANDARDS?

SHORT-TERM CONSTRUCTION

Short-term air quality impacts are predicted to occur during demolition, grading, building construction, paving, and architectural coating operations associated with implementation of the proposed project. Construction activities would include temporary shoring during the grading phase, off-site utility and signalized intersection improvements during the paving phase, pedestrian bridge construction during the building construction and paving phase, and vapor barrier installation during the building construction phase. Temporary air emissions would result from the following activities:

- Particulate (fugitive dust) emissions from grading and building construction; and
- Exhaust emissions from the construction equipment, hauling trucks, and motor vehicles of the construction crew.

The project proposes to demolish the existing mobile home park and construct a mixed-use development. Construction activities are anticipated to start in February 2022 and would take approximately 60 months to complete, which would cause construction to occur within six calendar years. It is anticipated that approximately 322,308 square feet of building area would be demolished. Earthwork activities would require approximately 24,827 cubic yards of cut and 123,246 cubic yards of fill, as well as approximately 120,000 cubic yards of import. Emissions for each construction phase have been quantified based upon the phase durations and equipment types. The analysis of daily construction emissions has been prepared utilizing the California Emissions Estimator Model version 2016.3.2 (CalEEMod). Refer to Appendix A, *Air Quality Data*, for the CalEEMod outputs and results. Table 7, *Maximum Daily Construction Emissions*, presents the anticipated daily short-term construction emissions.

Table 7
Maximum Daily Construction Emissions

Scenario	Pollutant (pounds/day) [1, 2]					
	ROG	NO_X	CO	SO_2	PM_{10}	$PM_{2.5}$
Year 1 Construction Emissions	11.06	86.78	160.24	0.44	19.37	6.06
Year 2 Construction Emissions	14.50	75.48	158.30	0.44	22.81	6.85
Year 3 Construction Emissions	6.76	36.64	69.47	0.24	13.24	3.79
Year 4 Construction Emissions	39.52	38.85	77.78	0.27	15.55	4.42
Year 5 Construction Emissions	39.24	38.38	74.61	0.26	15.54	4.42
Year 6 Construction Emissions	44.20	61.00	112.10	0.45	28.67	8.10

Table 7 (continued)
Maximum Daily Construction Emissions

Scenario	Pollutant (pounds/day) [1, 2]					
	ROG	NO_X	CO	SO_2	PM_{10}	$PM_{2.5}$
Maximum Construction Emissions	**44.20**	**86.78**	**160.24**	**0.45**	**28.67**	**8.10**
SCAQMD Thresholds	*75*	*100*	*550*	*150*	*150*	*55*
Is Threshold Exceeded?	***No***	***No***	***No***	***No***	***No***	***No***

Notes:
1. Emissions were calculated using CalEEMod version 2016.3.2, as recommended by the SCAQMD. The worst-case winter or summer emissions are presented.
2. The construction emissions incorporate the application of dust control techniques as required by SCAQMD Rule 403. The dust control techniques include the following: properly maintain mobile and other construction equipment; replace ground cover in disturbed areas quickly; water exposed surfaces twice daily; cover stock piles with tarps; water all haul roads three times daily; and limit speeds on unpaved roads to 15 miles per hour.
3. Project emissions include implementation of Project Design Feature AQ-1. Project Design Feature AQ-1 would require that all diesel-fueled construction equipment meet EPA-certified Tier 4 Interim/Final emissions standards during all phases of construction. The project emissions results in this table represent the "mitigated" emissions shown in the CalEEMod output sheets in Appendix A.

Refer to Appendix A, for assumptions used in this analysis.

Fugitive Dust Emissions

Construction activities are a source of fugitive dust (PM_{10} and $PM_{2.5}$) emissions that may have a substantial, temporary impact on local air quality. In addition, fugitive dust may be a nuisance to those living and working in the project area. Fugitive dust emissions are associated with land clearing, ground excavation, cut-and-fill, and truck travel on unpaved roadways (including demolition as well as construction activities). Fugitive dust emissions vary substantially from day to day, depending on the level of activity, specific operations, and weather conditions. Fugitive dust from demolition, grading, and construction is expected to be short-term and would cease upon project completion. Additionally, most of this material is inert silicates, rather than the complex organic particulates released from combustion sources, which are more harmful to health.

Dust (larger than 10 microns) generated by such activities usually becomes more of a local nuisance than a serious health problem. Of particular health concern is the amount of PM_{10} (particulate matter smaller than 10 microns) generated as a part of fugitive dust emissions. PM_{10} poses a serious health hazard alone or in combination with other pollutants. Fine Particulate Matter ($PM_{2.5}$) is mostly produced by mechanical processes. These include automobile tire wear, industrial processes such as cutting and grinding, and re-suspension of particles from the ground or road surfaces by wind and human activities such as construction or agriculture. $PM_{2.5}$ is mostly derived from combustion sources, such as automobiles, trucks, and other vehicle exhaust, as well as from stationary sources. These particles are either directly emitted or are formed in the atmosphere from the combustion of gases such as NO_X and SO_X combining with ammonia. $PM_{2.5}$ components from material in the earth's crust, such as dust, are also present, with the amount varying in different locations.

As indicated in Table 7, total PM_{10} and $PM_{2.5}$ emissions would be below SCAQMD thresholds. Therefore, particulate matter impacts during construction would be less than significant.

ROG Emissions[8]

In addition to gaseous and particulate emissions, the application of asphalt and surface coatings creates ROG emissions, which are O_3 precursors. In accordance with the methodology prescribed by the SCAQMD, the ROG emissions associated with paving have been quantified with CalEEMod. Architectural coatings were also quantified with CalEEMod based upon the size of the buildings.

The highest concentration of ROG emissions would be generated during the application of architectural coatings on the buildings. As required by SCAQMD, all architectural coatings for the proposed project structures would comply with SCAQMD Regulation XI, Rule 1113 – Architectural Coating.[9] Rule 1113 provides specifications on painting practices as well as regulates the ROG content of paint. As shown in Table 7, project construction would not result in an exceedance of ROG emissions during any years of construction. Therefore, impacts would be less than significant in this regard.

Construction Equipment and Worker Vehicle Exhaust

Exhaust emissions from construction activities include emissions associated with the transport of machinery and supplies to and from the project site, emissions produced on-site as the equipment is used, and emissions from trucks transporting materials to and from the site. The majority of construction equipment and vehicles would be diesel powered, which tends to be more efficient than gasoline-powered equipment. Diesel-powered equipment produces lower carbon monoxide and hydrocarbon emissions than gasoline equipment, but produces greater amounts of NO_X, SO_X, and particulates per hour of activity.[10] As presented in Table 7, unmitigated construction equipment, truck and worker vehicle exhaust emissions would not exceed SCAQMD thresholds. Notwithstanding, the project would implement Project Design Feature AQ-1 to further reduce construction emissions. Project Design Feature AQ-1 would require that all diesel-fueled construction equipment meet EPA-certified Tier 4 Interim/Final emissions standards during all phases of construction. Tier 4 standards regulate the amount of NO_X, CO, PM_{10}, and $PM_{2.5}$ emissions from nonroad (or off-road) diesel engines. Tier 4 standards require emissions of NO_X, PM_{10}, and $PM_{2.5}$ to be reduced by 90 percent from Tier 1-3 standards. Compared to the previously adopted Tier 1-3 standards, the use of control technologies such as

[8] ROGs and VOCs are subsets of organic gases that are emitted from the incomplete combustion of hydrocarbons or other carbon-based fuels. Although they represent slightly different subsets of organic gases, they are used interchangeably for the purposes of this analysis.

[9] South Coast Air Quality Management District, *Regulation XI Source Specific Standards*, http://www.aqmd.gov/docs/default-source/rule-book/reg-xi/r1113.pdf?sfvrsn=15, accessed June 29, 2021.

[10] J. L. Sullivan, R. E. Baker, B. A. Boyer, R. H. Hammerle, T. E. Kenney, L. Muniz, T. J. Wallington, *CO_2 Emission Benefit of Diesel (versus Gasoline) Powered Vehicles*, 2004, https://pubs.acs.org/doi/abs/10.1021/es034928d, accessed February 22, 2021.

exhaust gas aftertreatment (oxidation catalysts) in addition to advanced engine design allows the more stringent Tier 4 standards to be met.[11,12] Further, standard SCAQMD regulations, such as maintaining all construction equipment in proper tune, shutting down equipment when not in use for extended periods of time, and implementing SCAQMD Rule 403 would be adhered to. As noted in Table 7, construction equipment exhaust would not exceed SCAQMD thresholds with implementation of Project Design Feature AQ-1. Therefore, impacts are less than significant in this regard.

Naturally Occurring Asbestos

Asbestos is a term used for several types of naturally occurring fibrous minerals that are a human health hazard when airborne. The most common type of asbestos is chrysotile, but other types such as tremolite and actinolite are also found in California. Asbestos is classified as a known human carcinogen by State, Federal, and international agencies and was identified as a toxic air contaminant by the California Air Resources Board in 1986.

Asbestos can be released from serpentinite and ultramafic rocks when the rock is broken or crushed. At the point of release, the asbestos fibers may become airborne, causing air quality and human health hazards. These rocks have been commonly used for unpaved gravel roads, landscaping, fill projects, and other improvement projects in some localities. Asbestos may be released to the atmosphere due to vehicular traffic on unpaved roads, during grading for development projects, and at quarry operations. All of these activities may have the effect of releasing potentially harmful asbestos into the air. Natural weathering and erosion processes can act on asbestos bearing rock and make it easier for asbestos fibers to become airborne if such rock is disturbed. According to the Department of Conservation Division of Mines and Geology, *A General Location Guide for Ultramafic Rocks in California – Areas More Likely to Contain Naturally Occurring Asbestos Report* (August 2000), serpentinite and ultramafic rocks are not known to occur within the project area. Thus, there would be no impact in this regard.

Overall Construction Emissions

CalEEMod was utilized to model construction emissions for ROG, NO_X, CO, SO_X, PM_{10}, and $PM_{2.5}$. As indicated in Table 7, unmitigated construction emissions would not exceed SCAQMD thresholds for any criteria pollutants. Further, the project would implement Project Design

[11] OFR (National Archives and Records Administration's Office of the Federal Register, Electronic Code of Federal Regulations), *Title 40: Protection of Environment Part 1039 – Control of emissions from new and in-use nonroad compression-ignition engines*, https://www.ecfr.gov/cgi-bin/text-idx?SID=5bd49186c6de428e7d6446a56baab96c&mc=true&node=pt40.36.1039&rgn=div5#se40.36.1039_1101, accessed February 22, 2021.

[12] ICCT (International Council on Clean Transportation), TransportPolicy.net, *US: Nonroad: Emissions*, https://www.transportpolicy.net/standard/us-nonroad-emissions/, accessed February 22, 2021.

Feature AQ-1 to further reduce construction emissions. As such, construction emissions would be less than significant.

LONG-TERM OPERATIONS

Operational emissions generated by both stationary and mobile sources would result from normal daily activities on the project site after occupation (i.e., increased concentrations of ROG, NO_X, SO_X, PM_{10}, and CO). Mobile source emissions would be generated by the motor vehicles traveling to and from the project site. Stationary area source emissions would be generated by consumption of natural gas for space and water heating devices, operation of landscape maintenance equipment, and use of consumer products. Stationary energy emissions would result from natural gas consumption associated with the project. Analysis of mobile emissions is based primarily upon the *Imperial Avalon Local Transportation Assessment* (Transportation Assessment) prepared by Fehr and Peers (dated July 16, 2021). The analysis of daily operational emissions has been prepared utilizing CalEEMod. CalEEMod model runs were conducted for both the existing conditions and the proposed project; refer to Appendix A. Further, vehicle emission factors were taken from CARB's 2017 EMission FACtor (EMFAC2017) model.

Existing Operational Emissions

The existing project site is currently developed with the Imperial Avalon Mobile Estates mobile home park, which consists of 225 mobile home coaches, a recreational vehicle storage yard, and a common area with a clubhouse, grass field, recreation building, swimming pool, and guest parking spaces. A CalEEMod model run was conducted to quantify the existing operational emissions from the Imperial Avalon Mobile Estates mobile home park; refer to Table 8, *Existing Operational Air Emissions*. Trip generation rates associated with the existing use were based on the Transportation Assessment. According to the Transportation Assessment, the existing project site generates approximately 1,141 mobile daily trips.

Table 8
Existing Operational Air Emissions

Scenario	Pollutant (pounds/day)[1,2,4]					
	ROG	NO_X	CO	SO_X	PM_{10}	$PM_{2.5}$
Existing Summer Emissions						
Area[3]	6.77	3.57	20.05	0.02	0.37	0.37
Energy	0.04	0.38	0.16	0.00	0.03	0.03
Mobile	2.16	4.36	24.72	0.08	8.37	2.26
Total Existing Summer Emissions	***8.97***	***8.31***	***44.93***	***0.10***	***8.78***	***2.66***

Table 8 (continued)
Existing Operational Air Emissions

Scenario	Pollutant (pounds/day)[1,2,4]					
	ROG	NO_X	CO	SO_X	PM_{10}	$PM_{2.5}$
Existing Winter Emissions						
Area[3]	6.77	3.57	20.05	0.02	0.37	0.37
Energy	0.04	0.38	0.16	0.00	0.03	0.03
Mobile	2.22	4.62	23.81	0.07	8.32	2.26
Total Existing Winter Emissions	***9.04***	***8.58***	***44.03***	***0.10***	***8.72***	***2.66***

Notes:
1. Emissions were calculated using CalEEMod version 2016.3.2 and EMFAC2017, as recommended by the SCAQMD.
2. Based on CalEEMod results, worst-case seasonal emissions have been modeled.
3. Rule 445 prohibits installation of any open or enclosed permanently installed wood burning device beginning construction after March 9, 2009. As the existing use consists of a mobile home park, wood burning devices were assumed to not be present under existing conditions to provide a conservative analysis.
4. Under 2019 Title 24 standards, nonresidential buildings will use about 30 percent less energy, mainly due to lighting upgrades, when compared to nonresidential buildings constructed under 2016 standards, and residential buildings will use about 53 percent less energy than those under the 2016 standards. (Source: California Energy Commission, *2019 Building Energy Efficiency Standards*, https://www.energy.ca.gov/sites/default/files/2020-03/Title_24_2019_Building_Standards_FAQ_ada.pdf, accessed August 8, 2021)

Refer to Appendix A for assumptions used in this analysis.

Project Operational Emissions

The proposed project would construct a mixed-use development consisting of approximately 10,352 square feet of café/restaurant space and 1,213 residential units, as well as residential amenities and open space areas; refer to Table 2. Table 9, *Net Operational Air Emissions*, presents the anticipated net project operational emissions compared to the existing use. The net operation emissions were calculated by subtracting the existing use emissions from the proposed project emissions. The proposed project would include operational emission reductions from the most current building energy efficiency standards – the 2019 Title 24 and 2019 California Green Building Standards Code (CALGreen), including installation of photovoltaic solar panels and EV charging stations. As shown in Table 9, net operational emissions would not exceed SCAQMD thresholds.

Table 9
Net Operational Air Emissions

Scenario	Emissions (pounds per day)[1,5]					
	ROG	NO_x	CO	SO_x	PM_{10}	$PM_{2.5}$
Project Summer Emissions						
Area Source[2]	38.47	19.26	107.85	0.12	2.02	2.02
Energy Source	0.32	2.74	1.43	0.02	0.22	0.22
Mobile	12.64	26.47	136.61	0.44	46.50	12.55
Project Maximum Daily Emissions[3]	51.43	48.48	245.88	0.57	48.74	14.79
Existing Maximum Daily Emissions[3]	*8.97*	*8.31*	*44.93*	*0.10*	*8.78*	*2.66*

Table 9 (continued)
Net Operational Air Emissions

Scenario	Emissions (pounds per day)[1,5]					
	ROG	NO_x	CO	SO_x	PM_{10}	$PM_{2.5}$
Net Total Project Maximum Daily Emissions[3,4]	**42.46**	**40.16**	**200.95**	**0.47**	**39.96**	**12.13**
SCAQMD Regional Threshold	*55*	*55*	*550*	*150*	*150*	*55*
Threshold Exceeded?	**No**	**No**	**No**	**No**	**No**	**No**
Project Winter Emissions						
Area Source[2]	38.47	19.26	107.85	0.12	2.02	2.02
Energy Source	0.32	2.74	1.43	0.02	0.22	0.22
Mobile	13.01	28.07	131.93	0.42	46.18	12.55
Project Maximum Daily Emissions[3]	51.80	50.07	241.20	0.56	48.42	14.79
Existing Maximum Daily Emissions[3]	*9.04*	*8.58*	*44.03*	*0.10*	*8.72*	*2.66*
Net Total Project Maximum Daily Emissions[3,4]	**42.76**	**41.49**	**197.18**	**0.46**	**39.70**	**12.13**
SCAQMD Regional Threshold	*55*	*55*	*550*	*150*	*150*	*55*
Threshold Exceeded?	**No**	**No**	**No**	**No**	**No**	**No**

Notes:
1. Emissions were calculated using CalEEMod version 2016.3.2 and EMFAC2017, as recommended by the SCAQMD.
2. Rule 445 prohibits installation of any open or enclosed permanently installed wood burning device beginning construction after March 9, 2009. Therefore, SCAQMD Rule 445 was only applied in CalEEMod for the proposed project.
3. The numbers may be slightly off due to rounding.
4. The net summer and winter emissions represent the net increase in operational air emissions compared to existing conditions (refer to Table 8).
5. Under 2019 Title 24 standards, nonresidential buildings will use about 30 percent less energy, mainly due to lighting upgrades, when compared to nonresidential buildings constructed under 2016 standards, and residential buildings will use about 53 percent less energy than those under the 2016 standards. (Source: California Energy Commission, *2019 Building Energy Efficiency Standards*, https://www.energy.ca.gov/sites/default/files/2020-03/Title_24_2019_Building_Standards_FAQ_ada.pdf, accessed August 8, 2021)

Refer to Appendix A for assumptions used in this analysis.

Mobile Source Emissions

Mobile sources are emissions from motor vehicles, including tailpipe and evaporative emissions. Depending upon the pollutant being discussed, the potential air quality impact may be of either regional or local concern. For example, ROG, NO_x, SO_x, PM_{10}, and $PM_{2.5}$ are all pollutants of regional concern (NO_x and ROG react with sunlight to form O_3 [photochemical smog], and wind currents readily transport SO_x, PM_{10}, and $PM_{2.5}$). However, CO tends to be a localized pollutant, dispersing rapidly at the source.

Project-generated vehicle emissions have been estimated using EMFAC2017 and CalEEMod. Trip generation rates associated with the project were based on the Transportation Assessment. According to the Transportation Assessment, the proposed project would generate approximately 6,727 daily trips. Table 9 presents the anticipated net mobile source emissions. As seen in Table 9, emissions generated by vehicle traffic associated with the proposed project would not exceed established SCAQMD regional thresholds.

Area Source Emissions

Area source emissions would be generated due to an increased demand for consumer products, architectural coating, and landscaping associated with the proposed project. The proposed project would not include wood burning fireplaces or other devices per SCAQMD Rule 445 (Wood Burning Devices). As shown in Table 9, area source emissions from the proposed project would not exceed SCAQMD thresholds for ROG, NO_X, CO, SO_X, PM_{10}, or $PM_{2.5}$.

Energy Source Emissions

Energy source emissions would be generated as a result of electricity and natural gas (non-hearth) usage associated with the proposed project. The primary use of electricity and natural gas by the project would be for space heating and cooling, water heating, ventilation, lighting, appliances, and electronics. As shown in Table 9, energy source emissions from the proposed project would not exceed SCAQMD thresholds for ROG, NO_X, CO, SO_X, PM_{10}, or $PM_{2.5}$.

Overall Operational Emissions

As indicated in Table 9, net operational emissions from the proposed project would not exceed SCAQMD thresholds. Thus, long-term operational air emissions impacts would not result in a cumulatively considerable net increase of any criteria pollutant and impacts would be less than significant.

Project Design Features:

AQ-1 During project construction, all internal combustion engines/construction equipment operating on the project site shall meet EPA-certified Tier 4 emissions standards according to the following:

- All off-road diesel-powered construction equipment greater than 50 horsepower shall meet the EPA-certified Tier 4 Interim emission standards, with the exception of grading phase construction equipment greater than 100 horsepower. During the grading phase, all off-road diesel-powered construction equipment greater than 100 horsepower (e.g., excavators, graders, dozers, and scrapers) shall meet the EPA-certified Tier 4 Final (model year 2008 or newer) emission standards. In addition, all construction equipment shall be outfitted with best available control technologies (BACT) devices certified by the California Air Resources Board (CARB). Any emissions control device used by the contractor shall achieve emissions reductions that are no less than what could be achieved by a Level 4 diesel emissions control strategy for a similarly sized engine as defined by CARB regulations.

- A copy of each unit's certified tier specification, BACT documentation, and CARB or South Coast Air Quality Management District (SCAQMD) operating permit (or

registration) shall be provided at the time of mobilization of each applicable unit of equipment.

Mitigation Measures: No mitigation measures are required.

AQ-3 EXPOSE SENSITIVE RECEPTORS TO SUBSTANTIAL POLLUTANT CONCENTRATIONS?

Sensitive receptors are defined as facilities or land uses that include members of the population that are particularly sensitive to the effects of air pollutants, such as children, the elderly, and people with illnesses. Examples of these sensitive receptors are residences, schools, hospitals, and daycare centers. CARB has identified the following groups of individuals as the most likely to be affected by air pollution: the elderly over 65, children under 14, athletes, and persons with cardiovascular and chronic respiratory diseases such as asthma, emphysema, and bronchitis.

The closest sensitive receptors are single-family residential uses adjoining the project site to the south and west. In order to identify impacts to sensitive receptors, the SCAQMD recommends addressing localized significance thresholds (LSTs) for construction and operations impacts (area sources only). The CO hotspot analysis following the LST analysis addresses localized mobile source impacts.

LOCALIZED SIGNIFICANCE THRESHOLDS

LSTs were developed in response to SCAQMD Governing Boards' Environmental Justice Enhancement Initiative (I-4). The SCAQMD provided the *Final Localized Significance Threshold Methodology* (dated June 2003 [revised 2008]) for guidance. The LST methodology assists lead agencies in analyzing localized air quality impacts. The SCAQMD provides the LST screening lookup tables for one, two, and five-acre projects emitting CO, NO_X, $PM_{2.5}$, or PM_{10}. The LST methodology and associated mass rates are not designed to evaluate localized impacts from mobile sources traveling over the roadways. The project is located within SRA 4, South Coastal Los Angeles County.

SHORT-TERM CONSTRUCTION

The SCAQMD guidance on applying CalEEMod to LSTs specifies the number of acres a particular piece of equipment would likely disturb per day. SCAQMD provides LST thresholds for one-, two-, and five-acre site disturbance areas; SCAQMD does not provide LST thresholds for projects over five acres. Based on information obtained from CalEEMod, the project is anticipated to disturb up to 1,200 acres during the grading phase. The grading phase would take approximately 240 days in total to complete. As such, the project would actively disturb approximately 5 acres per day (1,200 acres divided by 240 days). Therefore, the LST thresholds for 5 acres were utilized for the construction LST analysis.

The closest sensitive receptors are residential uses adjoining the project site to the south and west. These sensitive land uses may be potentially affected by air pollutant emissions generated during on-site construction activities. LST thresholds are provided for distances to sensitive receptors of 25, 50, 100, 200, and 500 meters. According to SCAQMD LST Methodology, projects with boundaries located closer than 25 meters to the nearest receptor should use the LSTs for receptors located at 25 meters. As the nearest sensitive uses are adjoining the project site to the south and west, the LST values for 25 meters (82 feet) were used.

Table 10, *Localized Significance of Construction Emissions*, shows the localized construction-related emissions for NO_X, CO, PM_{10}, and $PM_{2.5}$ compared to the LSTs for SRA 4. It is noted that the localized emissions presented in Table 10 are less than those in Table 8 because localized emissions include only on-site emissions (i.e., from construction equipment and fugitive dust), and do not include off-site emissions (i.e., from hauling activities). As previously discussed, the project would implement Project Design Feature AQ-1 to reduce PM_{10} construction emissions. Project Design Feature AQ-1 would require that all diesel-fueled construction equipment meet EPA-certified Tier 4 Interim/Final emissions standards during all phases of construction. As shown in Table 10, localized construction emissions would not exceed the LSTs for SRA 4. Therefore, localized significance impacts from construction would be less than significant.

Table 10
Localized Significance of Construction Emissions

Phase	Emissions (pounds per day)			
	NO_X	CO	PM_{10}	$PM_{2.5}$
Construction On-Site Emissions[5,6]				
Year 1 On-Site Emissions[1]	38.98	97.81	4.66	1.87
Year 2 On-Site Emissions[2]	40.25	100.86	4.64	1.86
Year 3 On-Site Emissions[3]	12.31	20.93	0.09	0.09
Year 4 On-Site Emissions[4]	14.39	24.59	0.09	0.09
Year 5 On-Site Emissions[4]	14.39	24.59	0.09	0.09
Year 6 On-Site Emissions[4]	14.39	24.59	0.09	0.09
Maximum On-Site Emissions	**40.25**	**100.86**	**4.66**	**1.87**
SCAQMD Localized Threshold[5]	*123*	*1,530*	*14*	*8*
Threshold Exceeded?	**No**	**No**	**No**	**No**

Table 10 (continued)
Localized Significance of Construction Emissions

Notes:
1. The combined grading, building construction, and paving phases during Year 1 presents the worst-case scenario for NOx and CO, while the demolition and grading phases combined presents the worst-case scenario for $PM_{2.5}$ and PM_{10}.
2. The combined grading, building construction, and paving phases during Year 2 presents the worst-case scenario for NOx, CO, $PM_{2.5}$, and PM_{10}.
3. The building construction phase during Year 3 presents the worst-case scenario for NOx, CO, $PM_{2.5}$, and PM_{10}.
4. The combined building construction and architectural coating phases during Years 4 through 6 present the worst-case scenario for NOx, CO, $PM_{2.5}$, and PM_{10}.
5. The construction emissions incorporate the application of dust control techniques as required by SCAQMD Rule 403. The dust control techniques include the following: properly maintain mobile and other construction equipment; replace ground cover in disturbed areas quickly; water exposed surfaces twice daily; cover stock piles with tarps; water all haul roads three times daily; and limit speeds on unpaved roads to 15 miles per hour.
6. Project emissions include implementation of Project Design Feature AQ-1. Project Design Feature AQ-1 would require that all diesel-fueled construction equipment meet EPA-certified Tier 4 Interim/Final emissions standards during the all phases of construction. The project emissions results in this table represent the "mitigated" emissions shown in the CalEEMod output sheets in Appendix A.
7. The Localized Significance Threshold was determined using Appendix C of the SCAQMD Final Localized Significant Threshold Methodology guidance document for pollutants NO_X, CO, PM_{10}, and $PM_{2.5}$. The Localized Significance Threshold was based on the anticipated daily acreage disturbance for construction (approximately 5 acres), a distance of 82-feet (25) meters to the closest sensitive receptor, and the source receptor area (SRA 4).

Refer to Appendix A for assumptions used in this analysis.

LONG-TERM OPERATIONS

According to SCAQMD localized significance threshold methodology, LSTs would apply to the operational phase of a proposed project if the project includes stationary sources or attracts mobile sources that may spend extended periods queuing and idling at the site (e.g., warehouse or transfer facilities). Thus, due to the lack of such emissions, no long-term LST analysis is necessary. Operational LST impacts would be less than significant in this regard.

Carbon Monoxide Hotspots

An analysis of CO "hot spots" is needed to determine whether the change in the level of service (LOS) of an intersection as a result of the proposed project would have the potential to result in exceedances of the CAAQS or NAAQS. It has long been recognized that CO exceedances are caused by vehicular emissions, primarily when vehicles are idling at intersections. Vehicle emissions standards have become increasingly stringent in the last 20 years. With the turnover of older vehicles, introduction of cleaner fuels, and implementation of control technology on industrial facilities, CO concentrations have steadily declined.

Accordingly, with the steadily decreasing CO emissions from vehicles, even very busy intersections do not result in exceedances of the CO standard. CO attainment was thoroughly analyzed as part of the SCAQMD's 2003 Air Quality Management Plan (SCAQMD 2003). The 2003 AQMP is the most recent AQMP that addresses CO concentrations. It should be noted that the Basin was redesignated as attainment/maintenance in 2007 and is no longer addressed in the

SCAQMD's subsequent AQMPs. As part of the 2003 AQMP CO hot-spot analysis, the Wilshire Boulevard/Veteran Avenue intersection in Los Angeles, one of the most congested intersections in Southern California with an average daily traffic (ADT) volume of approximately 100,000 vehicles per day, was modeled for CO concentrations. This modeling effort identified a CO concentration high of 4.6 parts per million (ppm), which is well below the 35-ppm federal standard.

As the CO hot spots were not experienced at the Wilshire Boulevard/Veteran Avenue intersection, even with 100,000 vehicles daily, it can be reasonably inferred that CO hot spots would not be experienced at any vicinity intersections as a result of vehicle trips added by this project. According to the Transportation Assessment, the proposed project would generate 6,727 daily trips with 476 a.m. peak hour trips and 544 p.m. peak hour trips. Therefore, impacts would be less than significant in this regard.

Air Quality Health Impacts

Criteria Pollutants

Adverse health effects induced by criteria pollutant emissions are highly dependent on a multitude of interconnected variables (e.g., cumulative concentrations, local meteorology and atmospheric conditions, and the number and character of exposed individual [e.g., age and gender]). In particular, O_3 precursors, VOCs and NO_X, affect air quality on a regional scale. Health effects related to O_3 are therefore the product of emissions generated by numerous sources throughout a region. Existing models have limited sensitivity to small changes in criteria pollutant concentrations, and, as such, translating project-generated criteria pollutants to specific health effects or additional days of nonattainment would produce meaningless results. In other words, the project's less than significant increases in regional air pollution from criteria air pollutants would have nominal or negligible impacts on human health.

As noted in the Brief of Amicus Curiae by the SCAQMD (April 6, 2015) for the *Sierra Club vs. County of Fresno*, the SCAQMD acknowledged it would be extremely difficult, if not impossible to quantify health impacts of criteria pollutants for various reasons including modeling limitations as well as where in the atmosphere air pollutants interact and form. Further, as noted in the Brief of Amicus Curiae by the San Joaquin Valley Air Pollution Control District (SJVAPCD) (April 13, 2015) for the *Sierra Club vs. County of Fresno*, SJVAPCD has acknowledged that currently available modeling tools are not equipped to provide a meaningful analysis of the correlation between an individual development project's air emissions and specific human health impacts.

The SCAQMD acknowledges that health effects quantification from O_3, as an example is correlated with the increases in ambient level of O_3 in the air (concentration) that an individual person breathes. SCAQMD's Brief of Amicus Curiae states that it would take a large amount of additional emissions to cause a modeled increase in ambient O_3 levels over the entire region. The SCAQMD states that based on their own modeling in the SCAQMD's *2012 Air Quality*

Management Plan, a reduction of 432 tons (864,000 pounds) per day of NO_X and a reduction of 187 tons (374,000 pounds) per day of VOCs would reduce O_3 levels at highest monitored site by only nine parts per billion. As such, the SCAQMD concludes that it is not currently possible to accurately quantify O_3-related health impacts caused by NO_X or VOC emissions from relatively small projects (defined as projects with regional scope) due to photochemistry and regional model limitations. Thus, as the project would not exceed SCAQMD thresholds for construction and operational air emissions, the project would have a less than significant impact for air quality health impacts.

Toxic Air Contaminants

As previously discussed, project construction is anticipated to be completed over a period of up to approximately 60 months. Project construction activities are anticipated to involve the operation of diesel-powered equipment, which would emit Diesel Particulate Matter (DPM). In 1998, the CARB identified diesel exhaust as a Toxic Air Contaminant (TAC). Cancer health risks associated with exposures to diesel exhaust typically are associated with chronic exposure, in which a 30-year exposure period often is assumed. Project construction would comply with the California Code of Regulations (CCR), Title 13, Section 2449(d)(3) and 2485, which minimizes the idling time of construction equipment either by shutting it off when not in use or by reducing the time of idling to nor more than five minutes. In addition, the project would implement Project Design Feature AQ-1 that would significantly reduce DPM construction exhaust emissions. Furthermore, construction activities are expected to occur well below the 30-year exposure period used in health risk assessments. Additionally, emissions would be short-term and intermittent in nature, and therefore would not generate TAC emissions at high enough exposure concentrations to represent a health hazard. Therefore, project construction is not anticipated to result in an elevated health risk to nearby sensitive receptors and potential impacts would be less than significant.

CONCLUSION

In conclusion, the project would not expose sensitive receptors to substantial pollutant concentrations as the project would not exceed the SCAQMD LST thresholds, would not cause a CO hotspot, and would not create a localized air quality health impact. A less than significant impact would occur in this regard.

Project Design Features: Refer to Project Design Feature AQ-1, described above in Impact Statement AQ-2.

Mitigation Measures: No mitigation measures are required.

AQ-4 CREATE OBJECTIONABLE ODORS AFFECTING A SUBSTANTIAL NUMBER OF PEOPLE?

According to the SCAQMD *CEQA Air Quality Handbook*, land uses associated with odor complaints typically include agricultural uses, wastewater treatment plants, food processing plants, chemical plants, composting, refineries, landfills, dairies, and fiberglass molding. The proposed project does not include any uses identified by the SCAQMD as being associated with odors.

Construction activities associated with the project may generate detectable odors from heavy-duty equipment exhaust and architectural coatings. However, construction-related odors would be short-term in nature and cease upon project completion. In addition, the project would be required to comply with the California Code of Regulations, Title 13, sections 2449(d)(3) and 2485, which minimizes the idling time of construction equipment either by shutting it off when not in use or by reducing the time of idling to no more than five minutes. This would further reduce the detectable odors from heavy-duty equipment exhaust. The project would also comply with the SCAQMD Regulation XI, *Rule 1113 – Architectural Coating*, which would minimize odor impacts from ROG emissions during architectural coating. Any impacts to existing adjacent land uses would be short-term and are less than significant.

Project Design Features: No Project Design Features are identified.

Mitigation Measures: No mitigation measures are required.

6.0 REFERENCES

6.1 LIST OF PREPARERS

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Faye Stroud, Graphics

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APPENDIX A: AIR QUALITY DATA

Existing Operational Run - Imperial Avalon

Los Angeles-South Coast County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Mobile Home Park	225.00	Dwelling Unit	28.35	270,000.00	644

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	33
Climate Zone	11			**Operational Year**	2020
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	534	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Existing Operational Run - Imperial Avalon - Los Angeles-South Coast County, Winter

Project Characteristics - CO2 Intensity Factor Source: Southern California Edison, 2019 Sustainability Report.

Land Use - Per project description.

Construction Phase - No construction, existing operational run only.

Off-road Equipment - No construction, existing operational run only.

Vehicle Trips - Per traffic study.

Vehicle Emission Factors - EMFAC 2017

Vehicle Emission Factors - EMFAC 2017

Vehicle Emission Factors - EMFAC 2017

Energy Use -

Area Mitigation -

Table Name	Column Name	Default Value	New Value
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tblVehicleEF	LDT1	3.5750e-003	2.7120e-003
tblVehicleEF	LDT1	7.9300e-004	5.4300e-004
tblVehicleEF	LDT1	0.15	0.08
tblVehicleEF	LDT1	0.35	0.15
tblVehicleEF	LDT1	0.11	0.07
tblVehicleEF	LDT1	0.07	0.02
tblVehicleEF	LDT1	0.23	0.58
tblVehicleEF	LDT1	0.27	0.24
tblVehicleEF	LDT2	8.6320e-003	3.0040e-003
tblVehicleEF	LDT2	8.2970e-003	0.05
tblVehicleEF	LDT2	0.97	0.73
tblVehicleEF	LDT2	1.67	2.21

tblVehicleEF	LDT2	408.00	286.61
tblVehicleEF	LDT2	83.22	56.77
tblVehicleEF	LDT2	0.10	0.05
tblVehicleEF	LDT2	0.14	0.18
tblVehicleEF	LDT2	2.1760e-003	1.5480e-003
tblVehicleEF	LDT2	2.3520e-003	1.5640e-003
tblVehicleEF	LDT2	2.0020e-003	1.4250e-003
tblVehicleEF	LDT2	2.1630e-003	1.4380e-003
tblVehicleEF	LDT2	0.05	0.06
tblVehicleEF	LDT2	0.12	0.09
tblVehicleEF	LDT2	0.05	0.06
tblVehicleEF	LDT2	0.02	0.01
tblVehicleEF	LDT2	0.07	0.34
tblVehicleEF	LDT2	0.11	0.21
tblVehicleEF	LDT2	4.0880e-003	2.8350e-003
tblVehicleEF	LDT2	8.6100e-004	5.6200e-004
tblVehicleEF	LDT2	0.05	0.06
tblVehicleEF	LDT2	0.12	0.09
tblVehicleEF	LDT2	0.05	0.06
tblVehicleEF	LDT2	0.03	0.02
tblVehicleEF	LDT2	0.07	0.34
tblVehicleEF	LDT2	0.12	0.22
tblVehicleEF	LDT2	9.1430e-003	3.2070e-003
tblVehicleEF	LDT2	7.3790e-003	0.04
tblVehicleEF	LDT2	1.07	0.81
tblVehicleEF	LDT2	1.43	1.89
tblVehicleEF	LDT2	426.32	296.59

tblVehicleEF	LDT2	83.22	56.18
tblVehicleEF	LDT2	0.09	0.04
tblVehicleEF	LDT2	0.13	0.17
tblVehicleEF	LDT2	2.1760e-003	1.5480e-003
tblVehicleEF	LDT2	2.1760e-003	1.5480e-003
tblVehicleEF	LDT2	2.3520e-003	1.5640e-003
tblVehicleEF	LDT2	2.0020e-003	1.4250e-003
tblVehicleEF	LDT2	2.1630e-003	1.4380e-003
tblVehicleEF	LDT2	0.08	0.09
tblVehicleEF	LDT2	0.12	0.10
tblVehicleEF	LDT2	0.07	0.09
tblVehicleEF	LDT2	0.02	0.01
tblVehicleEF	LDT2	0.06	0.32
tblVehicleEF	LDT2	0.10	0.18
tblVehicleEF	LDT2	4.2730e-003	2.9340e-003
tblVehicleEF	LDT2	8.5600e-004	5.5600e-004
tblVehicleEF	LDT2	0.08	0.09
tblVehicleEF	LDT2	0.12	0.10
tblVehicleEF	LDT2	0.07	0.09
tblVehicleEF	LDT2	0.03	0.02
tblVehicleEF	LDT2	0.06	0.32
tblVehicleEF	LDT2	0.11	0.20
tblVehicleEF	LDT2	8.4620e-003	2.9410e-003
tblVehicleEF	LDT2	8.4930e-003	0.05
tblVehicleEF	LDT2	0.94	0.71
tblVehicleEF	LDT2	1.73	2.29
tblVehicleEF	LDT2	401.27	282.95

tblVehicleEF	LDT2	83.22	56.90
tblVehicleEF	LDT2	0.10	0.05
tblVehicleEF	LDT2	0.15	0.19
tblVehicleEF	LDT2	2.1760e-003	1.5480e-003
tblVehicleEF	LDT2	2.3520e-003	1.5640e-003
tblVehicleEF	LDT2	2.0020e-003	1.4250e-003
tblVehicleEF	LDT2	2.1630e-003	1.4380e-003
tblVehicleEF	LDT2	0.05	0.06
tblVehicleEF	LDT2	0.13	0.10
tblVehicleEF	LDT2	0.05	0.06
tblVehicleEF	LDT2	0.02	0.01
tblVehicleEF	LDT2	0.08	0.40
tblVehicleEF	LDT2	0.11	0.21
tblVehicleEF	LDT2	4.0210e-003	2.7990e-003
tblVehicleEF	LDT2	8.6200e-004	5.6300e-004
tblVehicleEF	LDT2	0.05	0.06
tblVehicleEF	LDT2	0.13	0.10
tblVehicleEF	LDT2	0.05	0.06
tblVehicleEF	LDT2	0.03	0.02
tblVehicleEF	LDT2	0.08	0.40
tblVehicleEF	LDT2	0.13	0.23
tblVehicleEF	LHD1	6.3570e-003	4.5300e-003
tblVehicleEF	LHD1	0.02	3.2190e-003
tblVehicleEF	LHD1	0.02	0.01
tblVehicleEF	LHD1	0.16	0.18
tblVehicleEF	LHD1	1.07	0.36
tblVehicleEF	LHD1	3.29	0.92

tblVehicleEF	LHD1	8.89	8.48
tblVehicleEF	LHD1	622.45	600.46
tblVehicleEF	LHD1	35.85	10.55
tblVehicleEF	LHD1	0.07	0.05
tblVehicleEF	LHD1	1.15	0.34
tblVehicleEF	LHD1	1.13	0.25
tblVehicleEF	LHD1	7.9800e-004	9.0000e-004
tblVehicleEF	LHD1	9.8890e-003	9.9110e-003
tblVehicleEF	LHD1	9.6360e-003	5.1900e-003
tblVehicleEF	LHD1	1.1970e-003	2.2200e-004
tblVehicleEF	LHD1	7.6300e-004	8.6100e-004
tblVehicleEF	LHD1	2.4720e-003	2.4780e-003
tblVehicleEF	LHD1	9.1880e-003	4.9400e-003
tblVehicleEF	LHD1	1.1020e-003	2.0400e-004
tblVehicleEF	LHD1	3.4680e-003	1.7550e-003
tblVehicleEF	LHD1	0.11	0.06
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	2.0560e-003	1.1400e-003
tblVehicleEF	LHD1	0.07	0.03
tblVehicleEF	LHD1	0.33	0.42
tblVehicleEF	LHD1	0.32	0.05
tblVehicleEF	LHD1	9.0000e-005	8.2000e-005
tblVehicleEF	LHD1	6.1270e-003	5.8510e-003
tblVehicleEF	LHD1	4.2000e-004	1.0400e-004
tblVehicleEF	LHD1	3.4680e-003	1.7550e-003
tblVehicleEF	LHD1	0.11	0.06
tblVehicleEF	LHD1	0.03	0.03

tblVehicleEF	LHD1	2.0560e-003	1.1400e-003
tblVehicleEF	LHD1	0.10	0.04
tblVehicleEF	LHD1	0.33	0.42
tblVehicleEF	LHD1	0.35	0.06
tblVehicleEF	LHD1	6.3570e-003	4.5400e-003
tblVehicleEF	LHD1	0.02	3.2650e-003
tblVehicleEF	LHD1	0.02	0.01
tblVehicleEF	LHD1	0.16	0.18
tblVehicleEF	LHD1	1.08	0.37
tblVehicleEF	LHD1	3.14	0.88
tblVehicleEF	LHD1	8.89	8.48
tblVehicleEF	LHD1	622.45	600.47
tblVehicleEF	LHD1	35.85	10.48
tblVehicleEF	LHD1	0.07	0.05
tblVehicleEF	LHD1	1.07	0.32
tblVehicleEF	LHD1	1.08	0.24
tblVehicleEF	LHD1	7.9800e-004	9.0000e-004
tblVehicleEF	LHD1	9.8890e-003	9.9110e-003
tblVehicleEF	LHD1	9.6360e-003	5.1900e-003
tblVehicleEF	LHD1	9.6360e-003	5.1900e-003
tblVehicleEF	LHD1	1.1970e-003	2.2200e-004
tblVehicleEF	LHD1	7.6300e-004	8.6100e-004
tblVehicleEF	LHD1	2.4720e-003	2.4780e-003
tblVehicleEF	LHD1	9.1880e-003	4.9400e-003
tblVehicleEF	LHD1	1.1020e-003	2.0400e-004
tblVehicleEF	LHD1	5.2080e-003	2.6250e-003
tblVehicleEF	LHD1	0.12	0.06

tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	2.9180e-003	1.5850e-003
tblVehicleEF	LHD1	0.08	0.03
tblVehicleEF	LHD1	0.32	0.40
tblVehicleEF	LHD1	0.31	0.05
tblVehicleEF	LHD1	9.0000e-005	8.2000e-005
tblVehicleEF	LHD1	6.1280e-003	5.8510e-003
tblVehicleEF	LHD1	4.1700e-004	1.0400e-004
tblVehicleEF	LHD1	5.2080e-003	2.6250e-003
tblVehicleEF	LHD1	0.12	0.06
tblVehicleEF	LHD1	0.03	0.03
tblVehicleEF	LHD1	2.9180e-003	1.5850e-003
tblVehicleEF	LHD1	0.10	0.04
tblVehicleEF	LHD1	0.32	0.40
tblVehicleEF	LHD1	0.34	0.05
tblVehicleEF	LHD1	6.3570e-003	4.5290e-003
tblVehicleEF	LHD1	0.02	3.2070e-003
tblVehicleEF	LHD1	0.02	0.01
tblVehicleEF	LHD1	0.16	0.18
tblVehicleEF	LHD1	1.06	0.36
tblVehicleEF	LHD1	3.32	0.93
tblVehicleEF	LHD1	8.89	8.48
tblVehicleEF	LHD1	622.45	600.45
tblVehicleEF	LHD1	35.85	10.56
tblVehicleEF	LHD1	0.07	0.05
tblVehicleEF	LHD1	1.13	0.34
tblVehicleEF	LHD1	1.14	0.25

tblVehicleEF	LHD1	7.9800e-004	9.0000e-004
tblVehicleEF	LHD1	9.8890e-003	9.9110e-003
tblVehicleEF	LHD1	9.6360e-003	5.1900e-003
tblVehicleEF	LHD1	1.1970e-003	2.2200e-004
tblVehicleEF	LHD1	7.6300e-004	8.6100e-004
tblVehicleEF	LHD1	2.4720e-003	2.4780e-003
tblVehicleEF	LHD1	9.1880e-003	4.9400e-003
tblVehicleEF	LHD1	1.1020e-003	2.0400e-004
tblVehicleEF	LHD1	3.6860e-003	1.8010e-003
tblVehicleEF	LHD1	0.13	0.07
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	2.0330e-003	1.1130e-003
tblVehicleEF	LHD1	0.07	0.03
tblVehicleEF	LHD1	0.35	0.45
tblVehicleEF	LHD1	0.32	0.05
tblVehicleEF	LHD1	9.0000e-005	8.2000e-005
tblVehicleEF	LHD1	6.1270e-003	5.8510e-003
tblVehicleEF	LHD1	4.2100e-004	1.0500e-004
tblVehicleEF	LHD1	3.6860e-003	1.8010e-003
tblVehicleEF	LHD1	0.13	0.07
tblVehicleEF	LHD1	0.03	0.03
tblVehicleEF	LHD1	2.0330e-003	1.1130e-003
tblVehicleEF	LHD1	0.10	0.04
tblVehicleEF	LHD1	0.35	0.45
tblVehicleEF	LHD1	0.36	0.06
tblVehicleEF	LHD2	4.6500e-003	3.0890e-003
tblVehicleEF	LHD2	5.8620e-003	2.5840e-003

tblVehicleEF	LHD2	0.01	6.9570e-003
tblVehicleEF	LHD2	0.14	0.14
tblVehicleEF	LHD2	0.45	0.27
tblVehicleEF	LHD2	1.67	0.57
tblVehicleEF	LHD2	13.53	13.01
tblVehicleEF	LHD2	634.55	602.25
tblVehicleEF	LHD2	30.01	7.76
tblVehicleEF	LHD2	0.10	0.07
tblVehicleEF	LHD2	0.88	0.43
tblVehicleEF	LHD2	0.66	0.17
tblVehicleEF	LHD2	1.1790e-003	1.3850e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	9.7680e-003	9.4110e-003
tblVehicleEF	LHD2	5.5800e-004	1.2400e-004
tblVehicleEF	LHD2	1.1280e-003	1.3250e-003
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tblVehicleEF	LHD2	9.3300e-003	8.9900e-003
tblVehicleEF	LHD2	5.1400e-004	1.1400e-004
tblVehicleEF	LHD2	1.4140e-003	1.0100e-003
tblVehicleEF	LHD2	0.05	0.04
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	8.8000e-004	6.9100e-004
tblVehicleEF	LHD2	0.05	0.04
tblVehicleEF	LHD2	0.11	0.21
tblVehicleEF	LHD2	0.15	0.03
tblVehicleEF	LHD2	1.3300e-004	1.2400e-004
tblVehicleEF	LHD2	6.1920e-003	5.8170e-003

tblVehicleEF	LHD2	3.3100e-004	7.7000e-005
tblVehicleEF	LHD2	1.4140e-003	1.0100e-003
tblVehicleEF	LHD2	0.05	0.04
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	8.8000e-004	6.9100e-004
tblVehicleEF	LHD2	0.06	0.05
tblVehicleEF	LHD2	0.11	0.21
tblVehicleEF	LHD2	0.17	0.04
tblVehicleEF	LHD2	4.6500e-003	3.0960e-003
tblVehicleEF	LHD2	5.9540e-003	2.6040e-003
tblVehicleEF	LHD2	0.01	6.7190e-003
tblVehicleEF	LHD2	0.14	0.14
tblVehicleEF	LHD2	0.46	0.27
tblVehicleEF	LHD2	1.60	0.55
tblVehicleEF	LHD2	13.53	13.01
tblVehicleEF	LHD2	634.55	602.26
tblVehicleEF	LHD2	30.01	7.72
tblVehicleEF	LHD2	0.10	0.07
tblVehicleEF	LHD2	0.83	0.41
tblVehicleEF	LHD2	0.63	0.16
tblVehicleEF	LHD2	1.1790e-003	1.3850e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	9.7680e-003	9.4110e-003
tblVehicleEF	LHD2	9.7680e-003	9.4110e-003
tblVehicleEF	LHD2	5.5800e-004	1.2400e-004
tblVehicleEF	LHD2	1.1280e-003	1.3250e-003
tblVehicleEF	LHD2	2.6300e-003	2.6790e-003

tblVehicleEF	LHD2	9.3300e-003	8.9900e-003
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tblVehicleEF	LHD2	2.1090e-003	1.5050e-003
tblVehicleEF	LHD2	0.05	0.04
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	1.2380e-003	9.5700e-004
tblVehicleEF	LHD2	0.05	0.04
tblVehicleEF	LHD2	0.10	0.20
tblVehicleEF	LHD2	0.15	0.03
tblVehicleEF	LHD2	1.3300e-004	1.2400e-004
tblVehicleEF	LHD2	6.1920e-003	5.8170e-003
tblVehicleEF	LHD2	3.3000e-004	7.6000e-005
tblVehicleEF	LHD2	2.1090e-003	1.5050e-003
tblVehicleEF	LHD2	0.05	0.04
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	1.2380e-003	9.5700e-004
tblVehicleEF	LHD2	0.06	0.05
tblVehicleEF	LHD2	0.10	0.20
tblVehicleEF	LHD2	0.16	0.04
tblVehicleEF	LHD2	4.6500e-003	3.0880e-003
tblVehicleEF	LHD2	5.8380e-003	2.5790e-003
tblVehicleEF	LHD2	0.01	7.0060e-003
tblVehicleEF	LHD2	0.14	0.14
tblVehicleEF	LHD2	0.45	0.27
tblVehicleEF	LHD2	1.68	0.58
tblVehicleEF	LHD2	13.53	13.01
tblVehicleEF	LHD2	634.55	602.25

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tblVehicleEF	LHD2	0.67	0.17
tblVehicleEF	LHD2	1.1790e-003	1.3850e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	9.7680e-003	9.4110e-003
tblVehicleEF	LHD2	5.5800e-004	1.2400e-004
tblVehicleEF	LHD2	1.1280e-003	1.3250e-003
tblVehicleEF	LHD2	2.6300e-003	2.6790e-003
tblVehicleEF	LHD2	9.3300e-003	8.9900e-003
tblVehicleEF	LHD2	5.1400e-004	1.1400e-004
tblVehicleEF	LHD2	1.4720e-003	1.0070e-003
tblVehicleEF	LHD2	0.05	0.04
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	8.5900e-004	6.6400e-004
tblVehicleEF	LHD2	0.05	0.04
tblVehicleEF	LHD2	0.12	0.23
tblVehicleEF	LHD2	0.16	0.03
tblVehicleEF	LHD2	1.3300e-004	1.2400e-004
tblVehicleEF	LHD2	6.1910e-003	5.8170e-003
tblVehicleEF	LHD2	3.3100e-004	7.7000e-005
tblVehicleEF	LHD2	1.4720e-003	1.0070e-003
tblVehicleEF	LHD2	0.05	0.04
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	8.5900e-004	6.6400e-004
tblVehicleEF	LHD2	0.06	0.05

tblVehicleEF	LHD2	0.12	0.23
tblVehicleEF	LHD2	0.17	0.04
tblVehicleEF	MCY	0.53	0.38
tblVehicleEF	MCY	0.15	0.23
tblVehicleEF	MCY	19.48	18.36
tblVehicleEF	MCY	9.63	8.64
tblVehicleEF	MCY	187.52	224.56
tblVehicleEF	MCY	45.30	58.24
tblVehicleEF	MCY	1.13	1.13
tblVehicleEF	MCY	0.31	0.26
tblVehicleEF	MCY	2.3100e-003	2.6240e-003
tblVehicleEF	MCY	4.0640e-003	2.9930e-003
tblVehicleEF	MCY	2.1620e-003	2.4480e-003
tblVehicleEF	MCY	3.8350e-003	2.8030e-003
tblVehicleEF	MCY	1.07	1.07
tblVehicleEF	MCY	0.66	0.60
tblVehicleEF	MCY	0.66	0.64
tblVehicleEF	MCY	2.62	2.58
tblVehicleEF	MCY	0.63	1.58
tblVehicleEF	MCY	2.08	1.78
tblVehicleEF	MCY	2.2730e-003	2.2220e-003
tblVehicleEF	MCY	6.7100e-004	5.7600e-004
tblVehicleEF	MCY	1.07	1.07
tblVehicleEF	MCY	0.66	0.60
tblVehicleEF	MCY	0.66	0.64
tblVehicleEF	MCY	3.25	3.24
tblVehicleEF	MCY	0.63	1.58

tblVehicleEF	MCY	2.26	1.93
tblVehicleEF	MCY	0.52	0.37
tblVehicleEF	MCY	0.14	0.21
tblVehicleEF	MCY	18.74	17.73
tblVehicleEF	MCY	8.81	7.83
tblVehicleEF	MCY	187.52	223.36
tblVehicleEF	MCY	45.30	56.31
tblVehicleEF	MCY	0.99	0.99
tblVehicleEF	MCY	0.29	0.25
tblVehicleEF	MCY	2.3100e-003	2.6240e-003
tblVehicleEF	MCY	2.3100e-003	2.6240e-003
tblVehicleEF	MCY	4.0640e-003	2.9930e-003
tblVehicleEF	MCY	2.1620e-003	2.4480e-003
tblVehicleEF	MCY	3.8350e-003	2.8030e-003
tblVehicleEF	MCY	1.74	1.72
tblVehicleEF	MCY	0.72	0.67
tblVehicleEF	MCY	1.10	1.04
tblVehicleEF	MCY	2.56	2.53
tblVehicleEF	MCY	0.60	1.48
tblVehicleEF	MCY	1.85	1.58
tblVehicleEF	MCY	2.2590e-003	2.2100e-003
tblVehicleEF	MCY	6.5100e-004	5.5700e-004
tblVehicleEF	MCY	1.74	1.72
tblVehicleEF	MCY	0.72	0.67
tblVehicleEF	MCY	1.10	1.04
tblVehicleEF	MCY	3.17	3.17
tblVehicleEF	MCY	0.60	1.48

tblVehicleEF	MCY	2.01	1.72
tblVehicleEF	MCY	0.53	0.38
tblVehicleEF	MCY	0.16	0.23
tblVehicleEF	MCY	19.59	18.46
tblVehicleEF	MCY	9.76	8.79
tblVehicleEF	MCY	187.52	224.74
tblVehicleEF	MCY	45.30	58.60
tblVehicleEF	MCY	1.11	1.11
tblVehicleEF	MCY	0.31	0.27
tblVehicleEF	MCY	2.3100e-003	2.6240e-003
tblVehicleEF	MCY	4.0640e-003	2.9930e-003
tblVehicleEF	MCY	2.1620e-003	2.4480e-003
tblVehicleEF	MCY	3.8350e-003	2.8030e-003
tblVehicleEF	MCY	1.17	1.16
tblVehicleEF	MCY	0.86	0.77
tblVehicleEF	MCY	0.63	0.60
tblVehicleEF	MCY	2.64	2.59
tblVehicleEF	MCY	0.73	1.85
tblVehicleEF	MCY	2.12	1.81
tblVehicleEF	MCY	2.2750e-003	2.2240e-003
tblVehicleEF	MCY	6.7500e-004	5.8000e-004
tblVehicleEF	MCY	1.17	1.16
tblVehicleEF	MCY	0.86	0.77
tblVehicleEF	MCY	0.63	0.60
tblVehicleEF	MCY	3.26	3.25
tblVehicleEF	MCY	0.73	1.85
tblVehicleEF	MCY	2.31	1.97

tblVehicleEF	MDV	0.02	3.5000e-003
tblVehicleEF	MDV	0.02	0.05
tblVehicleEF	MDV	1.77	0.78
tblVehicleEF	MDV	3.11	2.36
tblVehicleEF	MDV	543.27	352.23
tblVehicleEF	MDV	109.34	68.49
tblVehicleEF	MDV	0.19	0.06
tblVehicleEF	MDV	0.29	0.21
tblVehicleEF	MDV	2.4830e-003	1.5760e-003
tblVehicleEF	MDV	2.6470e-003	1.5670e-003
tblVehicleEF	MDV	2.2920e-003	1.4520e-003
tblVehicleEF	MDV	2.4370e-003	1.4410e-003
tblVehicleEF	MDV	0.07	0.07
tblVehicleEF	MDV	0.17	0.11
tblVehicleEF	MDV	0.07	0.08
tblVehicleEF	MDV	0.05	0.01
tblVehicleEF	MDV	0.09	0.35
tblVehicleEF	MDV	0.25	0.24
tblVehicleEF	MDV	5.4490e-003	3.4810e-003
tblVehicleEF	MDV	1.1480e-003	6.7800e-004
tblVehicleEF	MDV	0.07	0.07
tblVehicleEF	MDV	0.17	0.11
tblVehicleEF	MDV	0.07	0.08
tblVehicleEF	MDV	0.07	0.02
tblVehicleEF	MDV	0.09	0.35
tblVehicleEF	MDV	0.27	0.26
tblVehicleEF	MDV	0.02	3.7380e-003

tblVehicleEF	MDV	0.02	0.05
tblVehicleEF	MDV	1.90	0.86
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tblVehicleEF	MDV	567.14	362.48
tblVehicleEF	MDV	109.34	67.85
tblVehicleEF	MDV	0.17	0.05
tblVehicleEF	MDV	0.26	0.19
tblVehicleEF	MDV	2.4830e-003	1.5760e-003
tblVehicleEF	MDV	2.4830e-003	1.5760e-003
tblVehicleEF	MDV	2.6470e-003	1.5670e-003
tblVehicleEF	MDV	2.2920e-003	1.4520e-003
tblVehicleEF	MDV	2.4370e-003	1.4410e-003
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tblVehicleEF	MDV	0.17	0.11
tblVehicleEF	MDV	0.10	0.10
tblVehicleEF	MDV	0.05	0.02
tblVehicleEF	MDV	0.09	0.33
tblVehicleEF	MDV	0.22	0.21
tblVehicleEF	MDV	5.6890e-003	3.5830e-003
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tblVehicleEF	MDV	0.17	0.11
tblVehicleEF	MDV	0.10	0.10
tblVehicleEF	MDV	0.07	0.02
tblVehicleEF	MDV	0.09	0.33
tblVehicleEF	MDV	0.24	0.23
tblVehicleEF	MDV	0.02	3.4270e-003

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tblVehicleEF	MDV	109.34	68.63
tblVehicleEF	MDV	0.19	0.06
tblVehicleEF	MDV	0.29	0.21
tblVehicleEF	MDV	2.4830e-003	1.5760e-003
tblVehicleEF	MDV	2.6470e-003	1.5670e-003
tblVehicleEF	MDV	2.2920e-003	1.4520e-003
tblVehicleEF	MDV	2.4370e-003	1.4410e-003
tblVehicleEF	MDV	0.07	0.06
tblVehicleEF	MDV	0.18	0.11
tblVehicleEF	MDV	0.07	0.07
tblVehicleEF	MDV	0.05	0.01
tblVehicleEF	MDV	0.11	0.41
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tblVehicleEF	MDV	0.07	0.02
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tblVehicleEF	MH	0.02	0.01
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tblVehicleEF	MH	1.18	0.49
tblVehicleEF	MH	0.08	0.03
tblVehicleEF	MH	0.49	0.23
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tblVehicleEF	MH	0.08	0.03
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tblVehicleEF	MH	0.04	5.5950e-003

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tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	0.02	0.02
tblVehicleEF	MH	0.02	0.02
tblVehicleEF	MH	1.5790e-003	2.2800e-004
tblVehicleEF	MH	3.1950e-003	3.2730e-003
tblVehicleEF	MH	0.02	0.01
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tblVehicleEF	MH	1.74	0.72
tblVehicleEF	MH	0.08	0.04
tblVehicleEF	MH	0.71	0.32
tblVehicleEF	MH	0.18	0.05
tblVehicleEF	MH	0.02	0.75

tblVehicleEF	MH	0.45	0.08
tblVehicleEF	MH	0.04	5.4580e-003
tblVehicleEF	MH	0.03	0.02
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tblVehicleEF	MH	0.91	0.25
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tblVehicleEF	MH	0.02	0.02
tblVehicleEF	MH	1.5790e-003	2.2800e-004
tblVehicleEF	MH	3.1950e-003	3.2730e-003
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tblVehicleEF	MH	1.4630e-003	2.1000e-004
tblVehicleEF	MH	1.35	0.52
tblVehicleEF	MH	0.10	0.04
tblVehicleEF	MH	0.51	0.23
tblVehicleEF	MH	0.13	0.03
tblVehicleEF	MH	0.02	0.82
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tblVehicleEF	MH	0.01	0.01
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tblVehicleEF	MH	0.10	0.04
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tblVehicleEF	MHD	9.3600e-004	1.1500e-004
tblVehicleEF	MHD	2.1450e-003	1.7400e-004
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tblVehicleEF	MHD	1.3410e-003	4.4700e-004
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tblVehicleEF	MHD	8.3700e-004	3.1800e-004
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tblVehicleEF	MHD	0.03	0.10
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tblVehicleEF	MHD	7.8800e-004	9.9000e-005
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tblVehicleEF	MHD	0.05	0.02
tblVehicleEF	MHD	0.04	0.03
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tblVehicleEF	MHD	0.03	0.10
tblVehicleEF	MHD	0.50	0.05
tblVehicleEF	MHD	0.02	3.8990e-003
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tblVehicleEF	OBUS	9.9080e-003	7.0430e-003
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tblVehicleEF	SBUS	4.93	3.41
tblVehicleEF	SBUS	12.73	1.16
tblVehicleEF	SBUS	0.01	2.3940e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.03	0.02
tblVehicleEF	SBUS	7.4700e-004	7.5000e-005
tblVehicleEF	SBUS	0.01	2.2900e-003
tblVehicleEF	SBUS	2.6880e-003	2.6300e-003
tblVehicleEF	SBUS	0.03	0.02
tblVehicleEF	SBUS	6.8700e-004	6.9000e-005
tblVehicleEF	SBUS	3.4480e-003	1.1240e-003
tblVehicleEF	SBUS	0.03	9.7980e-003
tblVehicleEF	SBUS	0.96	0.40
tblVehicleEF	SBUS	1.6800e-003	6.5800e-004
tblVehicleEF	SBUS	0.12	0.07
tblVehicleEF	SBUS	0.02	0.06
tblVehicleEF	SBUS	0.40	0.04
tblVehicleEF	SBUS	0.01	3.3130e-003
tblVehicleEF	SBUS	0.01	9.8310e-003

tblVehicleEF	SBUS	6.5300e-004	6.2000e-005
tblVehicleEF	SBUS	3.4480e-003	1.1240e-003
tblVehicleEF	SBUS	0.03	9.7980e-003
tblVehicleEF	SBUS	1.38	0.58
tblVehicleEF	SBUS	1.6800e-003	6.5800e-004
tblVehicleEF	SBUS	0.14	0.08
tblVehicleEF	SBUS	0.02	0.06
tblVehicleEF	SBUS	0.44	0.05
tblVehicleEF	SBUS	0.88	0.09
tblVehicleEF	SBUS	0.01	5.1060e-003
tblVehicleEF	SBUS	0.06	6.6750e-003
tblVehicleEF	SBUS	7.76	3.49
tblVehicleEF	SBUS	0.86	0.43
tblVehicleEF	SBUS	6.22	0.80
tblVehicleEF	SBUS	1,206.53	351.36
tblVehicleEF	SBUS	1,098.50	1,026.24
tblVehicleEF	SBUS	52.01	5.98
tblVehicleEF	SBUS	10.96	2.64
tblVehicleEF	SBUS	4.65	3.21
tblVehicleEF	SBUS	12.69	1.16
tblVehicleEF	SBUS	0.01	2.0270e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.03	0.02
tblVehicleEF	SBUS	0.03	0.02
tblVehicleEF	SBUS	7.4700e-004	7.5000e-005
tblVehicleEF	SBUS	9.8410e-003	1.9390e-003
tblVehicleEF	SBUS	2.6880e-003	2.6300e-003

tblVehicleEF	SBUS	0.03	0.02
tblVehicleEF	SBUS	6.8700e-004	6.9000e-005
tblVehicleEF	SBUS	5.0870e-003	1.6330e-003
tblVehicleEF	SBUS	0.03	9.9100e-003
tblVehicleEF	SBUS	0.95	0.40
tblVehicleEF	SBUS	2.4200e-003	9.0400e-004
tblVehicleEF	SBUS	0.12	0.07
tblVehicleEF	SBUS	0.01	0.05
tblVehicleEF	SBUS	0.36	0.04
tblVehicleEF	SBUS	0.01	3.3590e-003
tblVehicleEF	SBUS	0.01	9.8310e-003
tblVehicleEF	SBUS	6.2900e-004	5.9000e-005
tblVehicleEF	SBUS	5.0870e-003	1.6330e-003
tblVehicleEF	SBUS	0.03	9.9100e-003
tblVehicleEF	SBUS	1.37	0.58
tblVehicleEF	SBUS	2.4200e-003	9.0400e-004
tblVehicleEF	SBUS	0.14	0.08
tblVehicleEF	SBUS	0.01	0.05
tblVehicleEF	SBUS	0.39	0.04
tblVehicleEF	SBUS	0.88	0.09
tblVehicleEF	SBUS	0.01	5.0340e-003
tblVehicleEF	SBUS	0.07	7.6750e-003
tblVehicleEF	SBUS	8.07	3.55
tblVehicleEF	SBUS	0.84	0.43
tblVehicleEF	SBUS	7.93	1.02
tblVehicleEF	SBUS	1,079.68	339.91
tblVehicleEF	SBUS	1,098.50	1,026.22

tblVehicleEF	SBUS	52.01	6.35
tblVehicleEF	SBUS	10.15	2.56
tblVehicleEF	SBUS	4.85	3.35
tblVehicleEF	SBUS	12.73	1.16
tblVehicleEF	SBUS	0.01	2.9000e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.03	0.02
tblVehicleEF	SBUS	7.4700e-004	7.5000e-005
tblVehicleEF	SBUS	0.01	2.7750e-003
tblVehicleEF	SBUS	2.6880e-003	2.6300e-003
tblVehicleEF	SBUS	0.03	0.02
tblVehicleEF	SBUS	6.8700e-004	6.9000e-005
tblVehicleEF	SBUS	3.6280e-003	1.0900e-003
tblVehicleEF	SBUS	0.03	0.01
tblVehicleEF	SBUS	0.96	0.40
tblVehicleEF	SBUS	1.6230e-003	6.2800e-004
tblVehicleEF	SBUS	0.12	0.07
tblVehicleEF	SBUS	0.02	0.07
tblVehicleEF	SBUS	0.41	0.04
tblVehicleEF	SBUS	0.01	3.2510e-003
tblVehicleEF	SBUS	0.01	9.8310e-003
tblVehicleEF	SBUS	6.5700e-004	6.3000e-005
tblVehicleEF	SBUS	3.6280e-003	1.0900e-003
tblVehicleEF	SBUS	0.03	0.01
tblVehicleEF	SBUS	1.38	0.58
tblVehicleEF	SBUS	1.6230e-003	6.2800e-004
tblVehicleEF	SBUS	0.14	0.08

tblVehicleEF	SBUS	0.02	0.07
tblVehicleEF	SBUS	0.45	0.05
tblVehicleEF	UBUS	2.95	5.86
tblVehicleEF	UBUS	0.05	9.5110e-003
tblVehicleEF	UBUS	12.36	45.55
tblVehicleEF	UBUS	8.85	0.70
tblVehicleEF	UBUS	2,008.92	1,975.40
tblVehicleEF	UBUS	88.02	7.56
tblVehicleEF	UBUS	11.49	0.47
tblVehicleEF	UBUS	15.98	0.07
tblVehicleEF	UBUS	0.64	0.07
tblVehicleEF	UBUS	0.01	0.03
tblVehicleEF	UBUS	0.15	3.2830e-003
tblVehicleEF	UBUS	9.7400e-004	8.6000e-005
tblVehicleEF	UBUS	0.27	0.03
tblVehicleEF	UBUS	3.0000e-003	7.9830e-003
tblVehicleEF	UBUS	0.14	3.1350e-003
tblVehicleEF	UBUS	8.9600e-004	7.9000e-005
tblVehicleEF	UBUS	4.1600e-003	2.8200e-004
tblVehicleEF	UBUS	0.07	3.0090e-003
tblVehicleEF	UBUS	2.3210e-003	2.0300e-004
tblVehicleEF	UBUS	0.96	0.09
tblVehicleEF	UBUS	0.02	0.02
tblVehicleEF	UBUS	0.66	0.04
tblVehicleEF	UBUS	0.01	1.2390e-003
tblVehicleEF	UBUS	1.0390e-003	7.5000e-005
tblVehicleEF	UBUS	4.1600e-003	2.8200e-004

tblVehicleEF	UBUS	0.07	3.0090e-003
tblVehicleEF	UBUS	2.3210e-003	2.0300e-004
tblVehicleEF	UBUS	4.03	5.98
tblVehicleEF	UBUS	0.02	0.02
tblVehicleEF	UBUS	0.72	0.04
tblVehicleEF	UBUS	2.95	5.86
tblVehicleEF	UBUS	0.04	8.8330e-003
tblVehicleEF	UBUS	12.41	45.55
tblVehicleEF	UBUS	7.66	0.62
tblVehicleEF	UBUS	2,008.92	1,975.40
tblVehicleEF	UBUS	88.02	7.41
tblVehicleEF	UBUS	10.84	0.46
tblVehicleEF	UBUS	15.93	0.07
tblVehicleEF	UBUS	0.64	0.07
tblVehicleEF	UBUS	0.01	0.03
tblVehicleEF	UBUS	0.15	3.2830e-003
tblVehicleEF	UBUS	0.15	3.2830e-003
tblVehicleEF	UBUS	9.7400e-004	8.6000e-005
tblVehicleEF	UBUS	0.27	0.03
tblVehicleEF	UBUS	3.0000e-003	7.9830e-003
tblVehicleEF	UBUS	0.14	3.1350e-003
tblVehicleEF	UBUS	8.9600e-004	7.9000e-005
tblVehicleEF	UBUS	5.9230e-003	4.1900e-004
tblVehicleEF	UBUS	0.07	3.1760e-003
tblVehicleEF	UBUS	3.1960e-003	2.9600e-004
tblVehicleEF	UBUS	0.97	0.09
tblVehicleEF	UBUS	0.02	0.01

tblVehicleEF	UBUS	0.60	0.04
tblVehicleEF	UBUS	0.01	1.2390e-003
tblVehicleEF	UBUS	1.0190e-003	7.3000e-005
tblVehicleEF	UBUS	5.9230e-003	4.1900e-004
tblVehicleEF	UBUS	0.07	3.1760e-003
tblVehicleEF	UBUS	3.1960e-003	2.9600e-004
tblVehicleEF	UBUS	4.04	5.98
tblVehicleEF	UBUS	0.02	0.01
tblVehicleEF	UBUS	0.66	0.04
tblVehicleEF	UBUS	2.95	5.86
tblVehicleEF	UBUS	0.05	9.6600e-003
tblVehicleEF	UBUS	12.34	45.55
tblVehicleEF	UBUS	9.07	0.72
tblVehicleEF	UBUS	2,008.92	1,975.40
tblVehicleEF	UBUS	88.02	7.58
tblVehicleEF	UBUS	11.27	0.46
tblVehicleEF	UBUS	15.99	0.07
tblVehicleEF	UBUS	0.64	0.07
tblVehicleEF	UBUS	0.01	0.03
tblVehicleEF	UBUS	0.15	3.2830e-003
tblVehicleEF	UBUS	9.7400e-004	8.6000e-005
tblVehicleEF	UBUS	0.27	0.03
tblVehicleEF	UBUS	3.0000e-003	7.9830e-003
tblVehicleEF	UBUS	0.14	3.1350e-003
tblVehicleEF	UBUS	8.9600e-004	7.9000e-005
tblVehicleEF	UBUS	4.7740e-003	2.9500e-004
tblVehicleEF	UBUS	0.09	3.3430e-003

tblVehicleEF	UBUS	2.4590e-003	1.9900e-004
tblVehicleEF	UBUS	0.96	0.09
tblVehicleEF	UBUS	0.03	0.02
tblVehicleEF	UBUS	0.67	0.04
tblVehicleEF	UBUS	0.01	1.2390e-003
tblVehicleEF	UBUS	1.0430e-003	7.5000e-005
tblVehicleEF	UBUS	4.7740e-003	2.9500e-004
tblVehicleEF	UBUS	0.09	3.3430e-003
tblVehicleEF	UBUS	2.4590e-003	1.9900e-004
tblVehicleEF	UBUS	4.02	5.98
tblVehicleEF	UBUS	0.03	0.02
tblVehicleEF	UBUS	0.74	0.05
tblVehicleTrips	ST_TR	5.00	5.07
tblVehicleTrips	SU_TR	4.36	5.07
tblVehicleTrips	WD_TR	4.99	5.07

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2020	0.9208	9.1397	9.4973	0.0133	0.4099	0.5675	0.9774	0.2158	0.5221	0.7378	0.0000	1,288.0056	1,288.0056	0.4069	0.0000	1,298.1773
Maximum	**0.9208**	**9.1397**	**9.4973**	**0.0133**	**0.4099**	**0.5675**	**0.9774**	**0.2158**	**0.5221**	**0.7378**	**0.0000**	**1,288.0056**	**1,288.0056**	**0.4069**	**0.0000**	**1,298.1773**

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2020	0.9208	9.1397	9.4973	0.0133	0.4099	0.5675	0.9774	0.2158	0.5221	0.7378	0.0000	1,288.0056	1,288.0056	0.4069	0.0000	1,298.1773
Maximum	**0.9208**	**9.1397**	**9.4973**	**0.0133**	**0.4099**	**0.5675**	**0.9774**	**0.2158**	**0.5221**	**0.7378**	**0.0000**	**1,288.0056**	**1,288.0056**	**0.4069**	**0.0000**	**1,298.1773**

	ROG	NOx	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	65.3341	4.8838	133.0487	0.2929		17.2898	17.2898		17.2898	17.2898	2,107.5566	4,083.4243	6,190.9809	6.3177	0.1431	6,391.5520
Energy	0.0445	0.3800	0.1617	2.4300e-003		0.0307	0.0307		0.0307	0.0307		485.1348	485.1348	9.3000e-003	8.8900e-003	488.0177
Mobile	2.2242	4.6241	23.8097	0.0743	8.2594	0.0566	8.3160	2.2055	0.0529	2.2584		7,717.1976	7,717.1976	0.5798		7,731.6935
Total	**67.6028**	**9.8879**	**157.0201**	**0.3696**	**8.2594**	**17.3771**	**25.6365**	**2.2055**	**17.3734**	**19.5789**	**2,107.5566**	**12,285.7567**	**14,393.3133**	**6.9069**	**0.1519**	**14,611.2632**

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	6.7691	3.5745	20.0539	0.0224		0.3740	0.3740		0.3740	0.3740	0.0000	4,321.6596	4,321.6596	0.1148	0.0786	4,347.9572
Energy	0.0445	0.3800	0.1617	2.4300e-003		0.0307	0.0307		0.0307	0.0307		485.1348	485.1348	9.3000e-003	8.8900e-003	488.0177
Mobile	2.2242	4.6241	23.8097	0.0743	8.2594	0.0566	8.3160	2.2055	0.0529	2.2584		7,717.1976	7,717.1976	0.5798		7,731.6935
Total	**9.0378**	**8.5786**	**44.0253**	**0.0991**	**8.2594**	**0.4614**	**8.7208**	**2.2055**	**0.4576**	**2.6631**	**0.0000**	**12,523.9920**	**12,523.9920**	**0.7039**	**0.0875**	**12,567.6684**

	ROG	NOx	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	**86.63**	**13.24**	**71.96**	**73.18**	**0.00**	**97.35**	**65.98**	**0.00**	**97.37**	**86.40**	**100.00**	**-1.94**	**12.99**	**89.81**	**42.40**	**13.99**

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	11/11/2020	11/11/2020	5	1	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 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	1	0.50	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
Site Preparation	5	3.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Site Preparation - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.3764	0.0000	0.3764	0.2069	0.0000	0.2069			0.0000			0.0000
Off-Road	0.9055	9.1289	9.3770	0.0130		0.5672	0.5672		0.5218	0.5218		1,254.7829	1,254.7829	0.4058		1,264.9285
Total	**0.9055**	**9.1289**	**9.3770**	**0.0130**	**0.3764**	**0.5672**	**0.9435**	**0.2069**	**0.5218**	**0.7287**		**1,254.7829**	**1,254.7829**	**0.4058**		**1,264.9285**

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	0.0153	0.0109	0.1203	3.3000e-004	0.0335	2.8000e-004	0.0338	8.8900e-003	2.6000e-004	9.1500e-003		33.2226	33.2226	1.0500e-003		33.2488
Total	**0.0153**	**0.0109**	**0.1203**	**3.3000e-004**	**0.0335**	**2.8000e-004**	**0.0338**	**8.8900e-003**	**2.6000e-004**	**9.1500e-003**		**33.2226**	**33.2226**	**1.0500e-003**		**33.2488**

3.2 Site Preparation - 2020

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					0.3764	0.0000	0.3764	0.2069	0.0000	0.2069			0.0000			0.0000
Off-Road	0.9055	9.1289	9.3770	0.0130		0.5672	0.5672		0.5218	0.5218	0.0000	1,254.7829	1,254.7829	0.4058		1,264.9285
Total	**0.9055**	**9.1289**	**9.3770**	**0.0130**	**0.3764**	**0.5672**	**0.9435**	**0.2069**	**0.5218**	**0.7287**	**0.0000**	**1,254.7829**	**1,254.7829**	**0.4058**		**1,264.9285**

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	0.0153	0.0109	0.1203	3.3000e-004	0.0335	2.8000e-004	0.0338	8.8900e-003	2.6000e-004	9.1500e-003		33.2226	33.2226	1.0500e-003		33.2488
Total	**0.0153**	**0.0109**	**0.1203**	**3.3000e-004**	**0.0335**	**2.8000e-004**	**0.0338**	**8.8900e-003**	**2.6000e-004**	**9.1500e-003**		**33.2226**	**33.2226**	**1.0500e-003**		**33.2488**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	2.2242	4.6241	23.8097	0.0743	8.2594	0.0566	8.3160	2.2055	0.0529	2.2584		7,717.1976	7,717.1976	0.5798		7,731.6935
Unmitigated	2.2242	4.6241	23.8097	0.0743	8.2594	0.0566	8.3160	2.2055	0.0529	2.2584		7,717.1976	7,717.1976	0.5798		7,731.6935

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Mobile Home Park	1,140.75	1,140.75	1140.75	3,898,116	3,898,116
Total	1,140.75	1,140.75	1,140.75	3,898,116	3,898,116

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
Mobile Home Park	14.70	5.90	8.70	40.20	19.20	40.60	86	11	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Mobile Home Park	0.547726	0.045437	0.201480	0.122768	0.016614	0.006090	0.019326	0.029174	0.002438	0.002359	0.005005	0.000677	0.000907

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	0.0445	0.3800	0.1617	2.4300e-003		0.0307	0.0307		0.0307	0.0307		485.1348	485.1348	9.3000e-003	8.8900e-003	488.0177
NaturalGas Unmitigated	0.0445	0.3800	0.1617	2.4300e-003		0.0307	0.0307		0.0307	0.0307		485.1348	485.1348	9.3000e-003	8.8900e-003	488.0177

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					
Mobile Home Park	4123.65	0.0445	0.3800	0.1617	2.4300e-003		0.0307	0.0307		0.0307	0.0307		485.1348	485.1348	9.3000e-003	8.8900e-003	488.0177
Total		**0.0445**	**0.3800**	**0.1617**	**2.4300e-003**		**0.0307**	**0.0307**		**0.0307**	**0.0307**		**485.1348**	**485.1348**	**9.3000e-003**	**8.8900e-003**	**488.0177**

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					
Mobile Home Park	4.12365	0.0445	0.3800	0.1617	2.4300e-003		0.0307	0.0307		0.0307	0.0307		485.1348	485.1348	9.3000e-003	8.8900e-003	488.0177
Total		**0.0445**	**0.3800**	**0.1617**	**2.4300e-003**		**0.0307**	**0.0307**		**0.0307**	**0.0307**		**485.1348**	**485.1348**	**9.3000e-003**	**8.8900e-003**	**488.0177**

6.0 Area Detail

6.1 Mitigation Measures Area

Use only Natural Gas Hearths

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	6.7691	3.5745	20.0539	0.0224		0.3740	0.3740		0.3740	0.3740	0.0000	4,321.6596	4,321.6596	0.1148	0.0786	4,347.9572
Unmitigated	65.3341	4.8838	133.0487	0.2929		17.2898	17.2898		17.2898	17.2898	2,107.5566	4,083.4243	6,190.9809	6.3177	0.1431	6,391.5520

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	0.4629					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	5.3460					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	58.9581	4.6684	114.4242	0.2919		17.1874	17.1874		17.1874	17.1874	2,107.5566	4,050.0000	6,157.5566	6.2851	0.1431	6,357.3129
Landscaping	0.5671	0.2154	18.6245	9.8000e-004		0.1024	0.1024		0.1024	0.1024		33.4243	33.4243	0.0326		34.2391
Total	**65.3341**	**4.8838**	**133.0487**	**0.2929**		**17.2898**	**17.2898**		**17.2898**	**17.2898**	**2,107.5566**	**4,083.4243**	**6,190.9809**	**6.3177**	**0.1431**	**6,391.5519**

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	0.4629					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	5.3460					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.3931	3.3591	1.4294	0.0214		0.2716	0.2716		0.2716	0.2716	0.0000	4,288.2353	4,288.2353	0.0822	0.0786	4,313.7181
Landscaping	0.5671	0.2154	18.6245	9.8000e-004		0.1024	0.1024		0.1024	0.1024		33.4243	33.4243	0.0326		34.2391
Total	**6.7691**	**3.5745**	**20.0539**	**0.0224**		**0.3740**	**0.3740**		**0.3740**	**0.3740**	**0.0000**	**4,321.6596**	**4,321.6596**	**0.1148**	**0.0786**	**4,347.9572**

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

Existing Operational Run - Imperial Avalon

Los Angeles-South Coast County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Mobile Home Park	225.00	Dwelling Unit	28.35	270,000.00	644

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	33
Climate Zone	11			**Operational Year**	2020
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	534	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Existing Operational Run - Imperial Avalon - Los Angeles-South Coast County, Summer

Project Characteristics - CO2 Intensity Factor Source: Southern California Edison, 2019 Sustainability Report.

Land Use - Per project description.

Construction Phase - No construction, existing operational run only.

Off-road Equipment - No construction, existing operational run only.

Vehicle Trips - Per traffic study.

Vehicle Emission Factors - EMFAC 2017

Vehicle Emission Factors - EMFAC 2017

Vehicle Emission Factors - EMFAC 2017

Energy Use -

Area Mitigation -

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	20.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	UsageHours	8.00	0.50
tblProjectCharacteristics	CO2IntensityFactor	702.44	534
tblTripsAndVMT	WorkerTripNumber	13.00	3.00
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tblVehicleEF	LDT1	0.30	0.14
tblVehicleEF	LDT1	0.12	0.08
tblVehicleEF	LDT1	0.05	0.02
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tblVehicleEF	LDT1	0.05	0.02
tblVehicleEF	LDT1	0.18	0.46
tblVehicleEF	LDT1	0.21	0.19
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tblVehicleEF	LDT1	0.32	0.14
tblVehicleEF	LDT1	0.17	0.10
tblVehicleEF	LDT1	0.07	0.03
tblVehicleEF	LDT1	0.18	0.46
tblVehicleEF	LDT1	0.23	0.21
tblVehicleEF	LDT1	0.02	3.9900e-003
tblVehicleEF	LDT1	0.02	0.05
tblVehicleEF	LDT1	1.96	0.87

tblVehicleEF	LDT1	3.54	1.92
tblVehicleEF	LDT1	354.88	274.07
tblVehicleEF	LDT1	73.09	54.89
tblVehicleEF	LDT1	0.19	0.06
tblVehicleEF	LDT1	0.20	0.18
tblVehicleEF	LDT1	3.9490e-003	1.8700e-003
tblVehicleEF	LDT1	3.7850e-003	1.8850e-003
tblVehicleEF	LDT1	3.6370e-003	1.7200e-003
tblVehicleEF	LDT1	3.4820e-003	1.7330e-003
tblVehicleEF	LDT1	0.15	0.08
tblVehicleEF	LDT1	0.35	0.15
tblVehicleEF	LDT1	0.11	0.07
tblVehicleEF	LDT1	0.05	0.02
tblVehicleEF	LDT1	0.23	0.58
tblVehicleEF	LDT1	0.25	0.22
tblVehicleEF	LDT1	3.5750e-003	2.7120e-003
tblVehicleEF	LDT1	7.9300e-004	5.4300e-004
tblVehicleEF	LDT1	0.15	0.08
tblVehicleEF	LDT1	0.35	0.15
tblVehicleEF	LDT1	0.11	0.07
tblVehicleEF	LDT1	0.07	0.02
tblVehicleEF	LDT1	0.23	0.58
tblVehicleEF	LDT1	0.27	0.24
tblVehicleEF	LDT2	8.6320e-003	3.0040e-003
tblVehicleEF	LDT2	8.2970e-003	0.05
tblVehicleEF	LDT2	0.97	0.73
tblVehicleEF	LDT2	1.67	2.21

tblVehicleEF	LDT2	408.00	286.61
tblVehicleEF	LDT2	83.22	56.77
tblVehicleEF	LDT2	0.10	0.05
tblVehicleEF	LDT2	0.14	0.18
tblVehicleEF	LDT2	2.1760e-003	1.5480e-003
tblVehicleEF	LDT2	2.3520e-003	1.5640e-003
tblVehicleEF	LDT2	2.0020e-003	1.4250e-003
tblVehicleEF	LDT2	2.1630e-003	1.4380e-003
tblVehicleEF	LDT2	0.05	0.06
tblVehicleEF	LDT2	0.12	0.09
tblVehicleEF	LDT2	0.05	0.06
tblVehicleEF	LDT2	0.02	0.01
tblVehicleEF	LDT2	0.07	0.34
tblVehicleEF	LDT2	0.11	0.21
tblVehicleEF	LDT2	4.0880e-003	2.8350e-003
tblVehicleEF	LDT2	8.6100e-004	5.6200e-004
tblVehicleEF	LDT2	0.05	0.06
tblVehicleEF	LDT2	0.12	0.09
tblVehicleEF	LDT2	0.05	0.06
tblVehicleEF	LDT2	0.03	0.02
tblVehicleEF	LDT2	0.07	0.34
tblVehicleEF	LDT2	0.12	0.22
tblVehicleEF	LDT2	9.1430e-003	3.2070e-003
tblVehicleEF	LDT2	7.3790e-003	0.04
tblVehicleEF	LDT2	1.07	0.81
tblVehicleEF	LDT2	1.43	1.89
tblVehicleEF	LDT2	426.32	296.59

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tblVehicleEF	LDT2	0.09	0.04
tblVehicleEF	LDT2	0.13	0.17
tblVehicleEF	LDT2	2.1760e-003	1.5480e-003
tblVehicleEF	LDT2	2.1760e-003	1.5480e-003
tblVehicleEF	LDT2	2.3520e-003	1.5640e-003
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tblVehicleEF	LDT2	2.1630e-003	1.4380e-003
tblVehicleEF	LDT2	0.08	0.09
tblVehicleEF	LDT2	0.12	0.10
tblVehicleEF	LDT2	0.07	0.09
tblVehicleEF	LDT2	0.02	0.01
tblVehicleEF	LDT2	0.06	0.32
tblVehicleEF	LDT2	0.10	0.18
tblVehicleEF	LDT2	4.2730e-003	2.9340e-003
tblVehicleEF	LDT2	8.5600e-004	5.5600e-004
tblVehicleEF	LDT2	0.08	0.09
tblVehicleEF	LDT2	0.12	0.10
tblVehicleEF	LDT2	0.07	0.09
tblVehicleEF	LDT2	0.03	0.02
tblVehicleEF	LDT2	0.06	0.32
tblVehicleEF	LDT2	0.11	0.20
tblVehicleEF	LDT2	8.4620e-003	2.9410e-003
tblVehicleEF	LDT2	8.4930e-003	0.05
tblVehicleEF	LDT2	0.94	0.71
tblVehicleEF	LDT2	1.73	2.29
tblVehicleEF	LDT2	401.27	282.95

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tblVehicleEF	LDT2	0.15	0.19
tblVehicleEF	LDT2	2.1760e-003	1.5480e-003
tblVehicleEF	LDT2	2.3520e-003	1.5640e-003
tblVehicleEF	LDT2	2.0020e-003	1.4250e-003
tblVehicleEF	LDT2	2.1630e-003	1.4380e-003
tblVehicleEF	LDT2	0.05	0.06
tblVehicleEF	LDT2	0.13	0.10
tblVehicleEF	LDT2	0.05	0.06
tblVehicleEF	LDT2	0.02	0.01
tblVehicleEF	LDT2	0.08	0.40
tblVehicleEF	LDT2	0.11	0.21
tblVehicleEF	LDT2	4.0210e-003	2.7990e-003
tblVehicleEF	LDT2	8.6200e-004	5.6300e-004
tblVehicleEF	LDT2	0.05	0.06
tblVehicleEF	LDT2	0.13	0.10
tblVehicleEF	LDT2	0.05	0.06
tblVehicleEF	LDT2	0.03	0.02
tblVehicleEF	LDT2	0.08	0.40
tblVehicleEF	LDT2	0.13	0.23
tblVehicleEF	LHD1	6.3570e-003	4.5300e-003
tblVehicleEF	LHD1	0.02	3.2190e-003
tblVehicleEF	LHD1	0.02	0.01
tblVehicleEF	LHD1	0.16	0.18
tblVehicleEF	LHD1	1.07	0.36
tblVehicleEF	LHD1	3.29	0.92

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tblVehicleEF	LHD1	622.45	600.46
tblVehicleEF	LHD1	35.85	10.55
tblVehicleEF	LHD1	0.07	0.05
tblVehicleEF	LHD1	1.15	0.34
tblVehicleEF	LHD1	1.13	0.25
tblVehicleEF	LHD1	7.9800e-004	9.0000e-004
tblVehicleEF	LHD1	9.8890e-003	9.9110e-003
tblVehicleEF	LHD1	9.6360e-003	5.1900e-003
tblVehicleEF	LHD1	1.1970e-003	2.2200e-004
tblVehicleEF	LHD1	7.6300e-004	8.6100e-004
tblVehicleEF	LHD1	2.4720e-003	2.4780e-003
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tblVehicleEF	LHD1	3.4680e-003	1.7550e-003
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tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	2.0560e-003	1.1400e-003
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tblVehicleEF	LHD1	0.33	0.42
tblVehicleEF	LHD1	0.32	0.05
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tblVehicleEF	LHD1	6.1270e-003	5.8510e-003
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tblVehicleEF	LHD1	3.4680e-003	1.7550e-003
tblVehicleEF	LHD1	0.11	0.06
tblVehicleEF	LHD1	0.03	0.03

tblVehicleEF	LHD1	2.0560e-003	1.1400e-003
tblVehicleEF	LHD1	0.10	0.04
tblVehicleEF	LHD1	0.33	0.42
tblVehicleEF	LHD1	0.35	0.06
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tblVehicleEF	LHD1	0.02	3.2650e-003
tblVehicleEF	LHD1	0.02	0.01
tblVehicleEF	LHD1	0.16	0.18
tblVehicleEF	LHD1	1.08	0.37
tblVehicleEF	LHD1	3.14	0.88
tblVehicleEF	LHD1	8.89	8.48
tblVehicleEF	LHD1	622.45	600.47
tblVehicleEF	LHD1	35.85	10.48
tblVehicleEF	LHD1	0.07	0.05
tblVehicleEF	LHD1	1.07	0.32
tblVehicleEF	LHD1	1.08	0.24
tblVehicleEF	LHD1	7.9800e-004	9.0000e-004
tblVehicleEF	LHD1	9.8890e-003	9.9110e-003
tblVehicleEF	LHD1	9.6360e-003	5.1900e-003
tblVehicleEF	LHD1	9.6360e-003	5.1900e-003
tblVehicleEF	LHD1	1.1970e-003	2.2200e-004
tblVehicleEF	LHD1	7.6300e-004	8.6100e-004
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tblVehicleEF	LHD1	1.1020e-003	2.0400e-004
tblVehicleEF	LHD1	5.2080e-003	2.6250e-003
tblVehicleEF	LHD1	0.12	0.06

tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	2.9180e-003	1.5850e-003
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tblVehicleEF	LHD1	0.32	0.40
tblVehicleEF	LHD1	0.31	0.05
tblVehicleEF	LHD1	9.0000e-005	8.2000e-005
tblVehicleEF	LHD1	6.1280e-003	5.8510e-003
tblVehicleEF	LHD1	4.1700e-004	1.0400e-004
tblVehicleEF	LHD1	5.2080e-003	2.6250e-003
tblVehicleEF	LHD1	0.12	0.06
tblVehicleEF	LHD1	0.03	0.03
tblVehicleEF	LHD1	2.9180e-003	1.5850e-003
tblVehicleEF	LHD1	0.10	0.04
tblVehicleEF	LHD1	0.32	0.40
tblVehicleEF	LHD1	0.34	0.05
tblVehicleEF	LHD1	6.3570e-003	4.5290e-003
tblVehicleEF	LHD1	0.02	3.2070e-003
tblVehicleEF	LHD1	0.02	0.01
tblVehicleEF	LHD1	0.16	0.18
tblVehicleEF	LHD1	1.06	0.36
tblVehicleEF	LHD1	3.32	0.93
tblVehicleEF	LHD1	8.89	8.48
tblVehicleEF	LHD1	622.45	600.45
tblVehicleEF	LHD1	35.85	10.56
tblVehicleEF	LHD1	0.07	0.05
tblVehicleEF	LHD1	1.13	0.34
tblVehicleEF	LHD1	1.14	0.25

tblVehicleEF	LHD1	7.9800e-004	9.0000e-004
tblVehicleEF	LHD1	9.8890e-003	9.9110e-003
tblVehicleEF	LHD1	9.6360e-003	5.1900e-003
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tblVehicleEF	LHD1	7.6300e-004	8.6100e-004
tblVehicleEF	LHD1	2.4720e-003	2.4780e-003
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tblVehicleEF	LHD1	1.1020e-003	2.0400e-004
tblVehicleEF	LHD1	3.6860e-003	1.8010e-003
tblVehicleEF	LHD1	0.13	0.07
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	2.0330e-003	1.1130e-003
tblVehicleEF	LHD1	0.07	0.03
tblVehicleEF	LHD1	0.35	0.45
tblVehicleEF	LHD1	0.32	0.05
tblVehicleEF	LHD1	9.0000e-005	8.2000e-005
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tblVehicleEF	LHD1	4.2100e-004	1.0500e-004
tblVehicleEF	LHD1	3.6860e-003	1.8010e-003
tblVehicleEF	LHD1	0.13	0.07
tblVehicleEF	LHD1	0.03	0.03
tblVehicleEF	LHD1	2.0330e-003	1.1130e-003
tblVehicleEF	LHD1	0.10	0.04
tblVehicleEF	LHD1	0.35	0.45
tblVehicleEF	LHD1	0.36	0.06
tblVehicleEF	LHD2	4.6500e-003	3.0890e-003
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tblVehicleEF	LHD2	0.45	0.27
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tblVehicleEF	LHD2	13.53	13.01
tblVehicleEF	LHD2	634.55	602.25
tblVehicleEF	LHD2	30.01	7.76
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tblVehicleEF	LHD2	0.88	0.43
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tblVehicleEF	LHD2	1.1790e-003	1.3850e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	9.7680e-003	9.4110e-003
tblVehicleEF	LHD2	5.5800e-004	1.2400e-004
tblVehicleEF	LHD2	1.1280e-003	1.3250e-003
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tblVehicleEF	LHD2	5.1400e-004	1.1400e-004
tblVehicleEF	LHD2	1.4140e-003	1.0100e-003
tblVehicleEF	LHD2	0.05	0.04
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	8.8000e-004	6.9100e-004
tblVehicleEF	LHD2	0.05	0.04
tblVehicleEF	LHD2	0.11	0.21
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tblVehicleEF	LHD2	6.1920e-003	5.8170e-003

tblVehicleEF	LHD2	3.3100e-004	7.7000e-005
tblVehicleEF	LHD2	1.4140e-003	1.0100e-003
tblVehicleEF	LHD2	0.05	0.04
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	8.8000e-004	6.9100e-004
tblVehicleEF	LHD2	0.06	0.05
tblVehicleEF	LHD2	0.11	0.21
tblVehicleEF	LHD2	0.17	0.04
tblVehicleEF	LHD2	4.6500e-003	3.0960e-003
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tblVehicleEF	LHD2	0.01	6.7190e-003
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tblVehicleEF	LHD2	634.55	602.26
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tblVehicleEF	LHD2	0.63	0.16
tblVehicleEF	LHD2	1.1790e-003	1.3850e-003
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tblVehicleEF	LHD2	5.5800e-004	1.2400e-004
tblVehicleEF	LHD2	1.1280e-003	1.3250e-003
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tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	1.2380e-003	9.5700e-004
tblVehicleEF	LHD2	0.05	0.04
tblVehicleEF	LHD2	0.10	0.20
tblVehicleEF	LHD2	0.15	0.03
tblVehicleEF	LHD2	1.3300e-004	1.2400e-004
tblVehicleEF	LHD2	6.1920e-003	5.8170e-003
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tblVehicleEF	LHD2	2.1090e-003	1.5050e-003
tblVehicleEF	LHD2	0.05	0.04
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	1.2380e-003	9.5700e-004
tblVehicleEF	LHD2	0.06	0.05
tblVehicleEF	LHD2	0.10	0.20
tblVehicleEF	LHD2	0.16	0.04
tblVehicleEF	LHD2	4.6500e-003	3.0880e-003
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tblVehicleEF	LHD2	0.01	7.0060e-003
tblVehicleEF	LHD2	0.14	0.14
tblVehicleEF	LHD2	0.45	0.27
tblVehicleEF	LHD2	1.68	0.58
tblVehicleEF	LHD2	13.53	13.01
tblVehicleEF	LHD2	634.55	602.25

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tblVehicleEF	LHD2	0.87	0.43
tblVehicleEF	LHD2	0.67	0.17
tblVehicleEF	LHD2	1.1790e-003	1.3850e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	9.7680e-003	9.4110e-003
tblVehicleEF	LHD2	5.5800e-004	1.2400e-004
tblVehicleEF	LHD2	1.1280e-003	1.3250e-003
tblVehicleEF	LHD2	2.6300e-003	2.6790e-003
tblVehicleEF	LHD2	9.3300e-003	8.9900e-003
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tblVehicleEF	LHD2	1.4720e-003	1.0070e-003
tblVehicleEF	LHD2	0.05	0.04
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	8.5900e-004	6.6400e-004
tblVehicleEF	LHD2	0.05	0.04
tblVehicleEF	LHD2	0.12	0.23
tblVehicleEF	LHD2	0.16	0.03
tblVehicleEF	LHD2	1.3300e-004	1.2400e-004
tblVehicleEF	LHD2	6.1910e-003	5.8170e-003
tblVehicleEF	LHD2	3.3100e-004	7.7000e-005
tblVehicleEF	LHD2	1.4720e-003	1.0070e-003
tblVehicleEF	LHD2	0.05	0.04
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	8.5900e-004	6.6400e-004
tblVehicleEF	LHD2	0.06	0.05

tblVehicleEF	LHD2	0.12	0.23
tblVehicleEF	LHD2	0.17	0.04
tblVehicleEF	MCY	0.53	0.38
tblVehicleEF	MCY	0.15	0.23
tblVehicleEF	MCY	19.48	18.36
tblVehicleEF	MCY	9.63	8.64
tblVehicleEF	MCY	187.52	224.56
tblVehicleEF	MCY	45.30	58.24
tblVehicleEF	MCY	1.13	1.13
tblVehicleEF	MCY	0.31	0.26
tblVehicleEF	MCY	2.3100e-003	2.6240e-003
tblVehicleEF	MCY	4.0640e-003	2.9930e-003
tblVehicleEF	MCY	2.1620e-003	2.4480e-003
tblVehicleEF	MCY	3.8350e-003	2.8030e-003
tblVehicleEF	MCY	1.07	1.07
tblVehicleEF	MCY	0.66	0.60
tblVehicleEF	MCY	0.66	0.64
tblVehicleEF	MCY	2.62	2.58
tblVehicleEF	MCY	0.63	1.58
tblVehicleEF	MCY	2.08	1.78
tblVehicleEF	MCY	2.2730e-003	2.2220e-003
tblVehicleEF	MCY	6.7100e-004	5.7600e-004
tblVehicleEF	MCY	1.07	1.07
tblVehicleEF	MCY	0.66	0.60
tblVehicleEF	MCY	0.66	0.64
tblVehicleEF	MCY	3.25	3.24
tblVehicleEF	MCY	0.63	1.58

tblVehicleEF	MCY	2.26	1.93
tblVehicleEF	MCY	0.52	0.37
tblVehicleEF	MCY	0.14	0.21
tblVehicleEF	MCY	18.74	17.73
tblVehicleEF	MCY	8.81	7.83
tblVehicleEF	MCY	187.52	223.36
tblVehicleEF	MCY	45.30	56.31
tblVehicleEF	MCY	0.99	0.99
tblVehicleEF	MCY	0.29	0.25
tblVehicleEF	MCY	2.3100e-003	2.6240e-003
tblVehicleEF	MCY	2.3100e-003	2.6240e-003
tblVehicleEF	MCY	4.0640e-003	2.9930e-003
tblVehicleEF	MCY	2.1620e-003	2.4480e-003
tblVehicleEF	MCY	3.8350e-003	2.8030e-003
tblVehicleEF	MCY	1.74	1.72
tblVehicleEF	MCY	0.72	0.67
tblVehicleEF	MCY	1.10	1.04
tblVehicleEF	MCY	2.56	2.53
tblVehicleEF	MCY	0.60	1.48
tblVehicleEF	MCY	1.85	1.58
tblVehicleEF	MCY	2.2590e-003	2.2100e-003
tblVehicleEF	MCY	6.5100e-004	5.5700e-004
tblVehicleEF	MCY	1.74	1.72
tblVehicleEF	MCY	0.72	0.67
tblVehicleEF	MCY	1.10	1.04
tblVehicleEF	MCY	3.17	3.17
tblVehicleEF	MCY	0.60	1.48

tblVehicleEF	MCY	2.01	1.72
tblVehicleEF	MCY	0.53	0.38
tblVehicleEF	MCY	0.16	0.23
tblVehicleEF	MCY	19.59	18.46
tblVehicleEF	MCY	9.76	8.79
tblVehicleEF	MCY	187.52	224.74
tblVehicleEF	MCY	45.30	58.60
tblVehicleEF	MCY	1.11	1.11
tblVehicleEF	MCY	0.31	0.27
tblVehicleEF	MCY	2.3100e-003	2.6240e-003
tblVehicleEF	MCY	4.0640e-003	2.9930e-003
tblVehicleEF	MCY	2.1620e-003	2.4480e-003
tblVehicleEF	MCY	3.8350e-003	2.8030e-003
tblVehicleEF	MCY	1.17	1.16
tblVehicleEF	MCY	0.86	0.77
tblVehicleEF	MCY	0.63	0.60
tblVehicleEF	MCY	2.64	2.59
tblVehicleEF	MCY	0.73	1.85
tblVehicleEF	MCY	2.12	1.81
tblVehicleEF	MCY	2.2750e-003	2.2240e-003
tblVehicleEF	MCY	6.7500e-004	5.8000e-004
tblVehicleEF	MCY	1.17	1.16
tblVehicleEF	MCY	0.86	0.77
tblVehicleEF	MCY	0.63	0.60
tblVehicleEF	MCY	3.26	3.25
tblVehicleEF	MCY	0.73	1.85
tblVehicleEF	MCY	2.31	1.97

tblVehicleEF	MDV	0.02	3.5000e-003
tblVehicleEF	MDV	0.02	0.05
tblVehicleEF	MDV	1.77	0.78
tblVehicleEF	MDV	3.11	2.36
tblVehicleEF	MDV	543.27	352.23
tblVehicleEF	MDV	109.34	68.49
tblVehicleEF	MDV	0.19	0.06
tblVehicleEF	MDV	0.29	0.21
tblVehicleEF	MDV	2.4830e-003	1.5760e-003
tblVehicleEF	MDV	2.6470e-003	1.5670e-003
tblVehicleEF	MDV	2.2920e-003	1.4520e-003
tblVehicleEF	MDV	2.4370e-003	1.4410e-003
tblVehicleEF	MDV	0.07	0.07
tblVehicleEF	MDV	0.17	0.11
tblVehicleEF	MDV	0.07	0.08
tblVehicleEF	MDV	0.05	0.01
tblVehicleEF	MDV	0.09	0.35
tblVehicleEF	MDV	0.25	0.24
tblVehicleEF	MDV	5.4490e-003	3.4810e-003
tblVehicleEF	MDV	1.1480e-003	6.7800e-004
tblVehicleEF	MDV	0.07	0.07
tblVehicleEF	MDV	0.17	0.11
tblVehicleEF	MDV	0.07	0.08
tblVehicleEF	MDV	0.07	0.02
tblVehicleEF	MDV	0.09	0.35
tblVehicleEF	MDV	0.27	0.26
tblVehicleEF	MDV	0.02	3.7380e-003

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tblVehicleEF	MDV	1.90	0.86
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tblVehicleEF	MDV	567.14	362.48
tblVehicleEF	MDV	109.34	67.85
tblVehicleEF	MDV	0.17	0.05
tblVehicleEF	MDV	0.26	0.19
tblVehicleEF	MDV	2.4830e-003	1.5760e-003
tblVehicleEF	MDV	2.4830e-003	1.5760e-003
tblVehicleEF	MDV	2.6470e-003	1.5670e-003
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tblVehicleEF	MDV	2.4370e-003	1.4410e-003
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tblVehicleEF	MDV	0.17	0.11
tblVehicleEF	MDV	0.10	0.10
tblVehicleEF	MDV	0.05	0.02
tblVehicleEF	MDV	0.09	0.33
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tblVehicleEF	MDV	0.17	0.11
tblVehicleEF	MDV	0.10	0.10
tblVehicleEF	MDV	0.07	0.02
tblVehicleEF	MDV	0.09	0.33
tblVehicleEF	MDV	0.24	0.23
tblVehicleEF	MDV	0.02	3.4270e-003

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tblVehicleEF	MDV	109.34	68.63
tblVehicleEF	MDV	0.19	0.06
tblVehicleEF	MDV	0.29	0.21
tblVehicleEF	MDV	2.4830e-003	1.5760e-003
tblVehicleEF	MDV	2.6470e-003	1.5670e-003
tblVehicleEF	MDV	2.2920e-003	1.4520e-003
tblVehicleEF	MDV	2.4370e-003	1.4410e-003
tblVehicleEF	MDV	0.07	0.06
tblVehicleEF	MDV	0.18	0.11
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tblVehicleEF	MDV	0.05	0.01
tblVehicleEF	MDV	0.11	0.41
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tblVehicleEF	MDV	0.07	0.07
tblVehicleEF	MDV	0.07	0.02
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tblVehicleEF	MDV	0.28	0.27
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tblVehicleEF	MH	1.4630e-003	2.1000e-004
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tblVehicleEF	MH	0.08	0.03
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tblVehicleEF	MH	0.08	0.03
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tblVehicleEF	MH	0.02	0.02
tblVehicleEF	MH	1.5790e-003	2.2800e-004
tblVehicleEF	MH	3.1950e-003	3.2730e-003
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tblVehicleEF	MH	1.4630e-003	2.1000e-004
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tblVehicleEF	MH	0.08	0.04
tblVehicleEF	MH	0.71	0.32
tblVehicleEF	MH	0.18	0.05
tblVehicleEF	MH	0.02	0.75

tblVehicleEF	MH	0.45	0.08
tblVehicleEF	MH	0.04	5.4580e-003
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tblVehicleEF	MH	0.02	0.02
tblVehicleEF	MH	1.5790e-003	2.2800e-004
tblVehicleEF	MH	3.1950e-003	3.2730e-003
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tblVehicleEF	MH	1.4630e-003	2.1000e-004
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tblVehicleEF	MH	0.10	0.04
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tblVehicleEF	MHD	0.03	0.10
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tblVehicleEF	OBUS	0.04	0.28
tblVehicleEF	OBUS	0.39	0.10
tblVehicleEF	OBUS	9.9500e-004	9.3000e-004
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	7.9600e-004	1.6900e-004
tblVehicleEF	OBUS	1.5550e-003	1.7750e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.06	0.07
tblVehicleEF	OBUS	7.6300e-004	9.0000e-004
tblVehicleEF	OBUS	0.09	0.03
tblVehicleEF	OBUS	0.04	0.28
tblVehicleEF	OBUS	0.42	0.11
tblVehicleEF	SBUS	0.88	0.09
tblVehicleEF	SBUS	0.01	5.0500e-003

tblVehicleEF	SBUS	0.07	7.4940e-003
tblVehicleEF	SBUS	7.89	3.52
tblVehicleEF	SBUS	0.84	0.43
tblVehicleEF	SBUS	7.67	0.99
tblVehicleEF	SBUS	1,153.25	346.55
tblVehicleEF	SBUS	1,098.50	1,026.23
tblVehicleEF	SBUS	52.01	6.29
tblVehicleEF	SBUS	10.62	2.61
tblVehicleEF	SBUS	4.93	3.41
tblVehicleEF	SBUS	12.73	1.16
tblVehicleEF	SBUS	0.01	2.3940e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.03	0.02
tblVehicleEF	SBUS	7.4700e-004	7.5000e-005
tblVehicleEF	SBUS	0.01	2.2900e-003
tblVehicleEF	SBUS	2.6880e-003	2.6300e-003
tblVehicleEF	SBUS	0.03	0.02
tblVehicleEF	SBUS	6.8700e-004	6.9000e-005
tblVehicleEF	SBUS	3.4480e-003	1.1240e-003
tblVehicleEF	SBUS	0.03	9.7980e-003
tblVehicleEF	SBUS	0.96	0.40
tblVehicleEF	SBUS	1.6800e-003	6.5800e-004
tblVehicleEF	SBUS	0.12	0.07
tblVehicleEF	SBUS	0.02	0.06
tblVehicleEF	SBUS	0.40	0.04
tblVehicleEF	SBUS	0.01	3.3130e-003
tblVehicleEF	SBUS	0.01	9.8310e-003

tblVehicleEF	SBUS	6.5300e-004	6.2000e-005
tblVehicleEF	SBUS	3.4480e-003	1.1240e-003
tblVehicleEF	SBUS	0.03	9.7980e-003
tblVehicleEF	SBUS	1.38	0.58
tblVehicleEF	SBUS	1.6800e-003	6.5800e-004
tblVehicleEF	SBUS	0.14	0.08
tblVehicleEF	SBUS	0.02	0.06
tblVehicleEF	SBUS	0.44	0.05
tblVehicleEF	SBUS	0.88	0.09
tblVehicleEF	SBUS	0.01	5.1060e-003
tblVehicleEF	SBUS	0.06	6.6750e-003
tblVehicleEF	SBUS	7.76	3.49
tblVehicleEF	SBUS	0.86	0.43
tblVehicleEF	SBUS	6.22	0.80
tblVehicleEF	SBUS	1,206.53	351.36
tblVehicleEF	SBUS	1,098.50	1,026.24
tblVehicleEF	SBUS	52.01	5.98
tblVehicleEF	SBUS	10.96	2.64
tblVehicleEF	SBUS	4.65	3.21
tblVehicleEF	SBUS	12.69	1.16
tblVehicleEF	SBUS	0.01	2.0270e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.03	0.02
tblVehicleEF	SBUS	0.03	0.02
tblVehicleEF	SBUS	7.4700e-004	7.5000e-005
tblVehicleEF	SBUS	9.8410e-003	1.9390e-003
tblVehicleEF	SBUS	2.6880e-003	2.6300e-003

tblVehicleEF	SBUS	0.03	0.02
tblVehicleEF	SBUS	6.8700e-004	6.9000e-005
tblVehicleEF	SBUS	5.0870e-003	1.6330e-003
tblVehicleEF	SBUS	0.03	9.9100e-003
tblVehicleEF	SBUS	0.95	0.40
tblVehicleEF	SBUS	2.4200e-003	9.0400e-004
tblVehicleEF	SBUS	0.12	0.07
tblVehicleEF	SBUS	0.01	0.05
tblVehicleEF	SBUS	0.36	0.04
tblVehicleEF	SBUS	0.01	3.3590e-003
tblVehicleEF	SBUS	0.01	9.8310e-003
tblVehicleEF	SBUS	6.2900e-004	5.9000e-005
tblVehicleEF	SBUS	5.0870e-003	1.6330e-003
tblVehicleEF	SBUS	0.03	9.9100e-003
tblVehicleEF	SBUS	1.37	0.58
tblVehicleEF	SBUS	2.4200e-003	9.0400e-004
tblVehicleEF	SBUS	0.14	0.08
tblVehicleEF	SBUS	0.01	0.05
tblVehicleEF	SBUS	0.39	0.04
tblVehicleEF	SBUS	0.88	0.09
tblVehicleEF	SBUS	0.01	5.0340e-003
tblVehicleEF	SBUS	0.07	7.6750e-003
tblVehicleEF	SBUS	8.07	3.55
tblVehicleEF	SBUS	0.84	0.43
tblVehicleEF	SBUS	7.93	1.02
tblVehicleEF	SBUS	1,079.68	339.91
tblVehicleEF	SBUS	1,098.50	1,026.22

tblVehicleEF	SBUS	52.01	6.35
tblVehicleEF	SBUS	10.15	2.56
tblVehicleEF	SBUS	4.85	3.35
tblVehicleEF	SBUS	12.73	1.16
tblVehicleEF	SBUS	0.01	2.9000e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.03	0.02
tblVehicleEF	SBUS	7.4700e-004	7.5000e-005
tblVehicleEF	SBUS	0.01	2.7750e-003
tblVehicleEF	SBUS	2.6880e-003	2.6300e-003
tblVehicleEF	SBUS	0.03	0.02
tblVehicleEF	SBUS	6.8700e-004	6.9000e-005
tblVehicleEF	SBUS	3.6280e-003	1.0900e-003
tblVehicleEF	SBUS	0.03	0.01
tblVehicleEF	SBUS	0.96	0.40
tblVehicleEF	SBUS	1.6230e-003	6.2800e-004
tblVehicleEF	SBUS	0.12	0.07
tblVehicleEF	SBUS	0.02	0.07
tblVehicleEF	SBUS	0.41	0.04
tblVehicleEF	SBUS	0.01	3.2510e-003
tblVehicleEF	SBUS	0.01	9.8310e-003
tblVehicleEF	SBUS	6.5700e-004	6.3000e-005
tblVehicleEF	SBUS	3.6280e-003	1.0900e-003
tblVehicleEF	SBUS	0.03	0.01
tblVehicleEF	SBUS	1.38	0.58
tblVehicleEF	SBUS	1.6230e-003	6.2800e-004
tblVehicleEF	SBUS	0.14	0.08

tblVehicleEF	SBUS	0.02	0.07
tblVehicleEF	SBUS	0.45	0.05
tblVehicleEF	UBUS	2.95	5.86
tblVehicleEF	UBUS	0.05	9.5110e-003
tblVehicleEF	UBUS	12.36	45.55
tblVehicleEF	UBUS	8.85	0.70
tblVehicleEF	UBUS	2,008.92	1,975.40
tblVehicleEF	UBUS	88.02	7.56
tblVehicleEF	UBUS	11.49	0.47
tblVehicleEF	UBUS	15.98	0.07
tblVehicleEF	UBUS	0.64	0.07
tblVehicleEF	UBUS	0.01	0.03
tblVehicleEF	UBUS	0.15	3.2830e-003
tblVehicleEF	UBUS	9.7400e-004	8.6000e-005
tblVehicleEF	UBUS	0.27	0.03
tblVehicleEF	UBUS	3.0000e-003	7.9830e-003
tblVehicleEF	UBUS	0.14	3.1350e-003
tblVehicleEF	UBUS	8.9600e-004	7.9000e-005
tblVehicleEF	UBUS	4.1600e-003	2.8200e-004
tblVehicleEF	UBUS	0.07	3.0090e-003
tblVehicleEF	UBUS	2.3210e-003	2.0300e-004
tblVehicleEF	UBUS	0.96	0.09
tblVehicleEF	UBUS	0.02	0.02
tblVehicleEF	UBUS	0.66	0.04
tblVehicleEF	UBUS	0.01	1.2390e-003
tblVehicleEF	UBUS	1.0390e-003	7.5000e-005
tblVehicleEF	UBUS	4.1600e-003	2.8200e-004

tblVehicleEF	UBUS	0.07	3.0090e-003
tblVehicleEF	UBUS	2.3210e-003	2.0300e-004
tblVehicleEF	UBUS	4.03	5.98
tblVehicleEF	UBUS	0.02	0.02
tblVehicleEF	UBUS	0.72	0.04
tblVehicleEF	UBUS	2.95	5.86
tblVehicleEF	UBUS	0.04	8.8330e-003
tblVehicleEF	UBUS	12.41	45.55
tblVehicleEF	UBUS	7.66	0.62
tblVehicleEF	UBUS	2,008.92	1,975.40
tblVehicleEF	UBUS	88.02	7.41
tblVehicleEF	UBUS	10.84	0.46
tblVehicleEF	UBUS	15.93	0.07
tblVehicleEF	UBUS	0.64	0.07
tblVehicleEF	UBUS	0.01	0.03
tblVehicleEF	UBUS	0.15	3.2830e-003
tblVehicleEF	UBUS	0.15	3.2830e-003
tblVehicleEF	UBUS	9.7400e-004	8.6000e-005
tblVehicleEF	UBUS	0.27	0.03
tblVehicleEF	UBUS	3.0000e-003	7.9830e-003
tblVehicleEF	UBUS	0.14	3.1350e-003
tblVehicleEF	UBUS	8.9600e-004	7.9000e-005
tblVehicleEF	UBUS	5.9230e-003	4.1900e-004
tblVehicleEF	UBUS	0.07	3.1760e-003
tblVehicleEF	UBUS	3.1960e-003	2.9600e-004
tblVehicleEF	UBUS	0.97	0.09
tblVehicleEF	UBUS	0.02	0.01

tblVehicleEF	UBUS	0.60	0.04
tblVehicleEF	UBUS	0.01	1.2390e-003
tblVehicleEF	UBUS	1.0190e-003	7.3000e-005
tblVehicleEF	UBUS	5.9230e-003	4.1900e-004
tblVehicleEF	UBUS	0.07	3.1760e-003
tblVehicleEF	UBUS	3.1960e-003	2.9600e-004
tblVehicleEF	UBUS	4.04	5.98
tblVehicleEF	UBUS	0.02	0.01
tblVehicleEF	UBUS	0.66	0.04
tblVehicleEF	UBUS	2.95	5.86
tblVehicleEF	UBUS	0.05	9.6600e-003
tblVehicleEF	UBUS	12.34	45.55
tblVehicleEF	UBUS	9.07	0.72
tblVehicleEF	UBUS	2,008.92	1,975.40
tblVehicleEF	UBUS	88.02	7.58
tblVehicleEF	UBUS	11.27	0.46
tblVehicleEF	UBUS	15.99	0.07
tblVehicleEF	UBUS	0.64	0.07
tblVehicleEF	UBUS	0.01	0.03
tblVehicleEF	UBUS	0.15	3.2830e-003
tblVehicleEF	UBUS	9.7400e-004	8.6000e-005
tblVehicleEF	UBUS	0.27	0.03
tblVehicleEF	UBUS	3.0000e-003	7.9830e-003
tblVehicleEF	UBUS	0.14	3.1350e-003
tblVehicleEF	UBUS	8.9600e-004	7.9000e-005
tblVehicleEF	UBUS	4.7740e-003	2.9500e-004
tblVehicleEF	UBUS	0.09	3.3430e-003

tblVehicleEF	UBUS	2.4590e-003	1.9900e-004
tblVehicleEF	UBUS	0.96	0.09
tblVehicleEF	UBUS	0.03	0.02
tblVehicleEF	UBUS	0.67	0.04
tblVehicleEF	UBUS	0.01	1.2390e-003
tblVehicleEF	UBUS	1.0430e-003	7.5000e-005
tblVehicleEF	UBUS	4.7740e-003	2.9500e-004
tblVehicleEF	UBUS	0.09	3.3430e-003
tblVehicleEF	UBUS	2.4590e-003	1.9900e-004
tblVehicleEF	UBUS	4.02	5.98
tblVehicleEF	UBUS	0.03	0.02
tblVehicleEF	UBUS	0.74	0.05
tblVehicleTrips	ST_TR	5.00	5.07
tblVehicleTrips	SU_TR	4.36	5.07
tblVehicleTrips	WD_TR	4.99	5.07

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2020	0.9193	9.1387	9.5084	0.0133	0.4099	0.5675	0.9774	0.2158	0.5221	0.7378	0.0000	1,290.0663	1,290.0663	0.4069	0.0000	1,300.2397
Maximum	**0.9193**	**9.1387**	**9.5084**	**0.0133**	**0.4099**	**0.5675**	**0.9774**	**0.2158**	**0.5221**	**0.7378**	**0.0000**	**1,290.0663**	**1,290.0663**	**0.4069**	**0.0000**	**1,300.2397**

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2020	0.9193	9.1387	9.5084	0.0133	0.4099	0.5675	0.9774	0.2158	0.5221	0.7378	0.0000	1,290.0663	1,290.0663	0.4069	0.0000	1,300.2397
Maximum	**0.9193**	**9.1387**	**9.5084**	**0.0133**	**0.4099**	**0.5675**	**0.9774**	**0.2158**	**0.5221**	**0.7378**	**0.0000**	**1,290.0663**	**1,290.0663**	**0.4069**	**0.0000**	**1,300.2397**

	ROG	NOx	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	65.3341	4.8838	133.0487	0.2929		17.2898	17.2898		17.2898	17.2898	2,107.5566	4,083.4243	6,190.9809	6.3177	0.1431	6,391.5520
Energy	0.0445	0.3800	0.1617	2.4300e-003		0.0307	0.0307		0.0307	0.0307		485.1348	485.1348	9.3000e-003	8.8900e-003	488.0177
Mobile	2.1613	4.3585	24.7184	0.0773	8.2594	0.1131	8.3725	2.2055	0.0528	2.2583		8,020.2566	8,020.2566	0.5724		8,034.5657
Total	**67.5399**	**9.6223**	**157.9287**	**0.3726**	**8.2594**	**17.4336**	**25.6930**	**2.2055**	**17.3733**	**19.5788**	**2,107.5566**	**12,588.8157**	**14,696.3723**	**6.8994**	**0.1519**	**14,914.1353**

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	6.7691	3.5745	20.0539	0.0224		0.3740	0.3740		0.3740	0.3740	0.0000	4,321.6596	4,321.6596	0.1148	0.0786	4,347.9572
Energy	0.0445	0.3800	0.1617	2.4300e-003		0.0307	0.0307		0.0307	0.0307		485.1348	485.1348	9.3000e-003	8.8900e-003	488.0177
Mobile	2.1613	4.3585	24.7184	0.0773	8.2594	0.1131	8.3725	2.2055	0.0528	2.2583		8,020.2566	8,020.2566	0.5724		8,034.5657
Total	**8.9749**	**8.3131**	**44.9340**	**0.1021**	**8.2594**	**0.5179**	**8.7773**	**2.2055**	**0.4575**	**2.6630**	**0.0000**	**12,827.0510**	**12,827.0510**	**0.6964**	**0.0875**	**12,870.5406**

	ROG	NOx	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	**86.71**	**13.61**	**71.55**	**72.59**	**0.00**	**97.03**	**65.84**	**0.00**	**97.37**	**86.40**	**100.00**	**-1.89**	**12.72**	**89.91**	**42.40**	**13.70**

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	11/11/2020	11/11/2020	5	1	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 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	1	0.50	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
Site Preparation	5	3.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Site Preparation - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.3764	0.0000	0.3764	0.2069	0.0000	0.2069			0.0000			0.0000
Off-Road	0.9055	9.1289	9.3770	0.0130		0.5672	0.5672		0.5218	0.5218		1,254.7829	1,254.7829	0.4058		1,264.9285
Total	**0.9055**	**9.1289**	**9.3770**	**0.0130**	**0.3764**	**0.5672**	**0.9435**	**0.2069**	**0.5218**	**0.7287**		**1,254.7829**	**1,254.7829**	**0.4058**		**1,264.9285**

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	0.0138	9.8200e-003	0.1314	3.5000e-004	0.0335	2.8000e-004	0.0338	8.8900e-003	2.6000e-004	9.1500e-003		35.2834	35.2834	1.1100e-003		35.3112
Total	**0.0138**	**9.8200e-003**	**0.1314**	**3.5000e-004**	**0.0335**	**2.8000e-004**	**0.0338**	**8.8900e-003**	**2.6000e-004**	**9.1500e-003**		**35.2834**	**35.2834**	**1.1100e-003**		**35.3112**

3.2 Site Preparation - 2020

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					0.3764	0.0000	0.3764	0.2069	0.0000	0.2069			0.0000			0.0000
Off-Road	0.9055	9.1289	9.3770	0.0130		0.5672	0.5672		0.5218	0.5218	0.0000	1,254.7829	1,254.7829	0.4058		1,264.9285
Total	**0.9055**	**9.1289**	**9.3770**	**0.0130**	**0.3764**	**0.5672**	**0.9435**	**0.2069**	**0.5218**	**0.7287**	**0.0000**	**1,254.7829**	**1,254.7829**	**0.4058**		**1,264.9285**

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	0.0138	9.8200e-003	0.1314	3.5000e-004	0.0335	2.8000e-004	0.0338	8.8900e-003	2.6000e-004	9.1500e-003		35.2834	35.2834	1.1100e-003		35.3112
Total	**0.0138**	**9.8200e-003**	**0.1314**	**3.5000e-004**	**0.0335**	**2.8000e-004**	**0.0338**	**8.8900e-003**	**2.6000e-004**	**9.1500e-003**		**35.2834**	**35.2834**	**1.1100e-003**		**35.3112**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	2.1613	4.3585	24.7184	0.0773	8.2594	0.1131	8.3725	2.2055	0.0528	2.2583		8,020.2566	8,020.2566	0.5724		8,034.5657
Unmitigated	2.1613	4.3585	24.7184	0.0773	8.2594	0.1131	8.3725	2.2055	0.0528	2.2583		8,020.2566	8,020.2566	0.5724		8,034.5657

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Mobile Home Park	1,140.75	1,140.75	1140.75	3,898,116	3,898,116
Total	1,140.75	1,140.75	1,140.75	3,898,116	3,898,116

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
Mobile Home Park	14.70	5.90	8.70	40.20	19.20	40.60	86	11	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Mobile Home Park	0.547726	0.045437	0.201480	0.122768	0.016614	0.006090	0.019326	0.029174	0.002438	0.002359	0.005005	0.000677	0.000907

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	0.0445	0.3800	0.1617	2.4300e-003		0.0307	0.0307		0.0307	0.0307		485.1348	485.1348	9.3000e-003	8.8900e-003	488.0177
NaturalGas Unmitigated	0.0445	0.3800	0.1617	2.4300e-003		0.0307	0.0307		0.0307	0.0307		485.1348	485.1348	9.3000e-003	8.8900e-003	488.0177

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					
Mobile Home Park	4123.65	0.0445	0.3800	0.1617	2.4300e-003		0.0307	0.0307		0.0307	0.0307		485.1348	485.1348	9.3000e-003	8.8900e-003	488.0177
Total		**0.0445**	**0.3800**	**0.1617**	**2.4300e-003**		**0.0307**	**0.0307**		**0.0307**	**0.0307**		**485.1348**	**485.1348**	**9.3000e-003**	**8.8900e-003**	**488.0177**

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					
Mobile Home Park	4.12365	0.0445	0.3800	0.1617	2.4300e-003		0.0307	0.0307		0.0307	0.0307		485.1348	485.1348	9.3000e-003	8.8900e-003	488.0177
Total		**0.0445**	**0.3800**	**0.1617**	**2.4300e-003**		**0.0307**	**0.0307**		**0.0307**	**0.0307**		**485.1348**	**485.1348**	**9.3000e-003**	**8.8900e-003**	**488.0177**

6.0 Area Detail

6.1 Mitigation Measures Area

Use only Natural Gas Hearths

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	6.7691	3.5745	20.0539	0.0224		0.3740	0.3740		0.3740	0.3740	0.0000	4,321.6596	4,321.6596	0.1148	0.0786	4,347.9572
Unmitigated	65.3341	4.8838	133.0487	0.2929		17.2898	17.2898		17.2898	17.2898	2,107.5566	4,083.4243	6,190.9809	6.3177	0.1431	6,391.5520

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	0.4629					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	5.3460					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	58.9581	4.6684	114.4242	0.2919		17.1874	17.1874		17.1874	17.1874	2,107.5566	4,050.0000	6,157.5566	6.2851	0.1431	6,357.3129
Landscaping	0.5671	0.2154	18.6245	9.8000e-004		0.1024	0.1024		0.1024	0.1024		33.4243	33.4243	0.0326		34.2391
Total	**65.3341**	**4.8838**	**133.0487**	**0.2929**		**17.2898**	**17.2898**		**17.2898**	**17.2898**	**2,107.5566**	**4,083.4243**	**6,190.9809**	**6.3177**	**0.1431**	**6,391.5519**

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	0.4629					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	5.3460					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.3931	3.3591	1.4294	0.0214		0.2716	0.2716		0.2716	0.2716	0.0000	4,288.2353	4,288.2353	0.0822	0.0786	4,313.7181
Landscaping	0.5671	0.2154	18.6245	9.8000e-004		0.1024	0.1024		0.1024	0.1024		33.4243	33.4243	0.0326		34.2391
Total	**6.7691**	**3.5745**	**20.0539**	**0.0224**		**0.3740**	**0.3740**		**0.3740**	**0.3740**	**0.0000**	**4,321.6596**	**4,321.6596**	**0.1148**	**0.0786**	**4,347.9572**

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

Imperial Avalon

Los Angeles-South Coast County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Enclosed Parking with Elevator	1,208.00	Space	10.87	483,200.00	0
Other Asphalt Surfaces	333.72	1000sqft	7.66	333,724.00	0
Parking Lot	26.00	Space	0.23	10,400.00	0
City Park	4.77	Acre	4.77	207,781.20	0
Health Club	18.42	1000sqft	0.42	18,416.00	0
Quality Restaurant	10.35	1000sqft	0.24	10,352.00	0
Recreational Swimming Pool	1.70	1000sqft	0.04	1,700.00	0
Apartments Mid Rise	833.00	Dwelling Unit	21.92	902,694.00	2382
Condo/Townhouse High Rise	380.00	Dwelling Unit	5.94	625,000.00	1087

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	33
Climate Zone	11			**Operational Year**	2027
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	534	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - CO2 Intensity Factor Source: Southern California Edison, 2019 Sustainability Report.

Land Use - See CalEEMod Input table notes.
Construction Phase - Per construction questionnaire.

Off-road Equipment - Per construction questionnaire.

Off-road Equipment - Per construction questionnaire.

Off-road Equipment - Per construction questionnaire.

Off-road Equipment - Per construction questionnaire.

Off-road Equipment -

Trips and VMT -

Demolition -

Grading -

Vehicle Trips - Per traffic study.

Vehicle Emission Factors - EMFAC 2017

Vehicle Emission Factors - EMFAC 2017

Vehicle Emission Factors - EMFAC 2017

Energy Use -

Water And Wastewater -

Solid Waste -

Construction Off-road Equipment Mitigation - Per SCAQMD standards and regulations. All off-road diesel-powered construction equipment greater than 50 horsepower shall meet Tier 4 emission standards per PDF.

Area Mitigation - SCAQMD Rule 445 prohibits the installation of any open or enclosed permanently installed wood burning device.

Energy Mitigation - % Improvement based on efficiency of 2019 Title 24 Standards compared to 2016 Title 24 Standards.

Water Mitigation -

Waste Mitigation -

Off-road Equipment - Per construction questionnaire.

Off-road Equipment - "Other Construction Equipment" = Vibratory Hammer Pile Driver

Off-road Equipment - "Other Construction Equipment" = Vibratory Hammer Pile Driver

Off-road Equipment - Per construction questionnaire.

Imperial Avalon - Los Angeles-South Coast County, Winter

Architectural Coating -
Area Coating -

Table Name	Column Name	Default Value	New Value
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tblAreaCoating	Area_Residential_Interior	3093580	2456325
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tblConstDustMitigation	WaterUnpavedRoadMoistureContent	0	12
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
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tblOffRoadEquipment	HorsePower	172.00	630.00
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tblVehicleEF	HHD	8.8470e-003	8.9010e-003
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tblVehicleEF	HHD	9.6000e-005	1.0000e-006
tblVehicleEF	HHD	9.4000e-005	3.0000e-006
tblVehicleEF	HHD	4.3350e-003	1.2900e-004
tblVehicleEF	HHD	0.42	0.42
tblVehicleEF	HHD	7.3000e-005	2.0000e-006
tblVehicleEF	HHD	0.09	0.02
tblVehicleEF	HHD	3.8300e-004	6.3100e-004
tblVehicleEF	HHD	0.06	2.0000e-006
tblVehicleEF	HHD	0.04	0.01
tblVehicleEF	HHD	0.01	0.01
tblVehicleEF	HHD	1.6400e-004	1.0000e-006
tblVehicleEF	HHD	9.4000e-005	3.0000e-006

tblVehicleEF	HHD	4.3350e-003	1.2900e-004
tblVehicleEF	HHD	0.49	0.48
tblVehicleEF	HHD	7.3000e-005	2.0000e-006
tblVehicleEF	HHD	0.20	0.11
tblVehicleEF	HHD	3.8300e-004	6.3100e-004
tblVehicleEF	HHD	0.07	3.0000e-006
tblVehicleEF	LDA	3.4500e-003	1.7040e-003
tblVehicleEF	LDA	2.9680e-003	0.03
tblVehicleEF	LDA	0.47	0.53
tblVehicleEF	LDA	0.75	1.73
tblVehicleEF	LDA	225.60	232.38
tblVehicleEF	LDA	46.96	45.54
tblVehicleEF	LDA	0.03	0.02
tblVehicleEF	LDA	0.04	0.14
tblVehicleEF	LDA	1.8580e-003	1.4150e-003
tblVehicleEF	LDA	2.1030e-003	1.4930e-003
tblVehicleEF	LDA	1.7110e-003	1.3020e-003
tblVehicleEF	LDA	1.9330e-003	1.3730e-003
tblVehicleEF	LDA	0.03	0.04
tblVehicleEF	LDA	0.08	0.08
tblVehicleEF	LDA	0.03	0.04
tblVehicleEF	LDA	8.6750e-003	6.1670e-003
tblVehicleEF	LDA	0.03	0.18
tblVehicleEF	LDA	0.04	0.14
tblVehicleEF	LDA	2.2590e-003	2.2990e-003
tblVehicleEF	LDA	4.8200e-004	4.5100e-004
tblVehicleEF	LDA	0.03	0.04

tblVehicleEF	LDA	0.08	0.08
tblVehicleEF	LDA	0.03	0.04
tblVehicleEF	LDA	0.01	8.9590e-003
tblVehicleEF	LDA	0.03	0.18
tblVehicleEF	LDA	0.04	0.16
tblVehicleEF	LDA	3.6710e-003	1.8280e-003
tblVehicleEF	LDA	2.6440e-003	0.03
tblVehicleEF	LDA	0.52	0.58
tblVehicleEF	LDA	0.64	1.48
tblVehicleEF	LDA	236.09	242.91
tblVehicleEF	LDA	46.96	45.09
tblVehicleEF	LDA	0.03	0.02
tblVehicleEF	LDA	0.04	0.13
tblVehicleEF	LDA	1.8580e-003	1.4150e-003
tblVehicleEF	LDA	1.8580e-003	1.4150e-003
tblVehicleEF	LDA	2.1030e-003	1.4930e-003
tblVehicleEF	LDA	1.7110e-003	1.3020e-003
tblVehicleEF	LDA	1.9330e-003	1.3730e-003
tblVehicleEF	LDA	0.04	0.06
tblVehicleEF	LDA	0.08	0.08
tblVehicleEF	LDA	0.04	0.05
tblVehicleEF	LDA	9.2220e-003	6.5540e-003
tblVehicleEF	LDA	0.03	0.17
tblVehicleEF	LDA	0.04	0.13
tblVehicleEF	LDA	2.3640e-003	2.4030e-003
tblVehicleEF	LDA	4.8000e-004	4.4600e-004
tblVehicleEF	LDA	0.04	0.06

tblVehicleEF	LDA	0.08	0.08
tblVehicleEF	LDA	0.04	0.05
tblVehicleEF	LDA	0.01	9.5230e-003
tblVehicleEF	LDA	0.03	0.17
tblVehicleEF	LDA	0.04	0.14
tblVehicleEF	LDA	3.3790e-003	1.6660e-003
tblVehicleEF	LDA	3.0360e-003	0.03
tblVehicleEF	LDA	0.46	0.51
tblVehicleEF	LDA	0.77	1.78
tblVehicleEF	LDA	221.77	228.54
tblVehicleEF	LDA	46.96	45.64
tblVehicleEF	LDA	0.03	0.02
tblVehicleEF	LDA	0.04	0.14
tblVehicleEF	LDA	1.8580e-003	1.4150e-003
tblVehicleEF	LDA	2.1030e-003	1.4930e-003
tblVehicleEF	LDA	1.7110e-003	1.3020e-003
tblVehicleEF	LDA	1.9330e-003	1.3730e-003
tblVehicleEF	LDA	0.03	0.04
tblVehicleEF	LDA	0.08	0.08
tblVehicleEF	LDA	0.03	0.04
tblVehicleEF	LDA	8.4980e-003	6.0420e-003
tblVehicleEF	LDA	0.04	0.21
tblVehicleEF	LDA	0.04	0.15
tblVehicleEF	LDA	2.2200e-003	2.2610e-003
tblVehicleEF	LDA	4.8200e-004	4.5200e-004
tblVehicleEF	LDA	0.03	0.04
tblVehicleEF	LDA	0.08	0.08

tblVehicleEF	LDA	0.03	0.04
tblVehicleEF	LDA	0.01	8.7770e-003
tblVehicleEF	LDA	0.04	0.21
tblVehicleEF	LDA	0.04	0.16
tblVehicleEF	LDT1	9.4300e-003	4.0690e-003
tblVehicleEF	LDT1	7.9500e-003	0.05
tblVehicleEF	LDT1	1.09	0.90
tblVehicleEF	LDT1	1.69	1.86
tblVehicleEF	LDT1	292.89	277.98
tblVehicleEF	LDT1	59.74	54.78
tblVehicleEF	LDT1	0.10	0.06
tblVehicleEF	LDT1	0.09	0.18
tblVehicleEF	LDT1	2.7650e-003	1.8700e-003
tblVehicleEF	LDT1	2.8080e-003	1.8850e-003
tblVehicleEF	LDT1	2.5440e-003	1.7200e-003
tblVehicleEF	LDT1	2.5820e-003	1.7330e-003
tblVehicleEF	LDT1	0.09	0.08
tblVehicleEF	LDT1	0.19	0.14
tblVehicleEF	LDT1	0.08	0.08
tblVehicleEF	LDT1	0.02	0.02
tblVehicleEF	LDT1	0.14	0.49
tblVehicleEF	LDT1	0.11	0.21
tblVehicleEF	LDT1	2.9420e-003	2.7510e-003
tblVehicleEF	LDT1	6.2600e-004	5.4200e-004
tblVehicleEF	LDT1	0.09	0.08
tblVehicleEF	LDT1	0.19	0.14
tblVehicleEF	LDT1	0.08	0.08

tblVehicleEF	LDT1	0.03	0.03
tblVehicleEF	LDT1	0.14	0.49
tblVehicleEF	LDT1	0.12	0.23
tblVehicleEF	LDT1	9.9640e-003	4.3300e-003
tblVehicleEF	LDT1	7.0580e-003	0.04
tblVehicleEF	LDT1	1.19	0.98
tblVehicleEF	LDT1	1.44	1.59
tblVehicleEF	LDT1	305.73	288.65
tblVehicleEF	LDT1	59.74	54.27
tblVehicleEF	LDT1	0.09	0.06
tblVehicleEF	LDT1	0.09	0.16
tblVehicleEF	LDT1	2.7650e-003	1.8700e-003
tblVehicleEF	LDT1	2.7650e-003	1.8700e-003
tblVehicleEF	LDT1	2.8080e-003	1.8850e-003
tblVehicleEF	LDT1	2.5440e-003	1.7200e-003
tblVehicleEF	LDT1	2.5820e-003	1.7330e-003
tblVehicleEF	LDT1	0.14	0.13
tblVehicleEF	LDT1	0.20	0.14
tblVehicleEF	LDT1	0.11	0.10
tblVehicleEF	LDT1	0.02	0.02
tblVehicleEF	LDT1	0.13	0.46
tblVehicleEF	LDT1	0.10	0.19
tblVehicleEF	LDT1	3.0710e-003	2.8560e-003
tblVehicleEF	LDT1	6.2200e-004	5.3700e-004
tblVehicleEF	LDT1	0.14	0.13
tblVehicleEF	LDT1	0.20	0.14
tblVehicleEF	LDT1	0.11	0.10

tblVehicleEF	LDT1	0.04	0.03
tblVehicleEF	LDT1	0.13	0.46
tblVehicleEF	LDT1	0.10	0.21
tblVehicleEF	LDT1	9.2560e-003	3.9900e-003
tblVehicleEF	LDT1	8.1360e-003	0.05
tblVehicleEF	LDT1	1.06	0.87
tblVehicleEF	LDT1	1.74	1.92
tblVehicleEF	LDT1	288.17	274.07
tblVehicleEF	LDT1	59.74	54.89
tblVehicleEF	LDT1	0.10	0.06
tblVehicleEF	LDT1	0.10	0.18
tblVehicleEF	LDT1	2.7650e-003	1.8700e-003
tblVehicleEF	LDT1	2.8080e-003	1.8850e-003
tblVehicleEF	LDT1	2.5440e-003	1.7200e-003
tblVehicleEF	LDT1	2.5820e-003	1.7330e-003
tblVehicleEF	LDT1	0.09	0.08
tblVehicleEF	LDT1	0.21	0.15
tblVehicleEF	LDT1	0.07	0.07
tblVehicleEF	LDT1	0.02	0.02
tblVehicleEF	LDT1	0.16	0.58
tblVehicleEF	LDT1	0.11	0.22
tblVehicleEF	LDT1	2.8940e-003	2.7120e-003
tblVehicleEF	LDT1	6.2700e-004	5.4300e-004
tblVehicleEF	LDT1	0.09	0.08
tblVehicleEF	LDT1	0.21	0.15
tblVehicleEF	LDT1	0.07	0.07
tblVehicleEF	LDT1	0.03	0.02

tblVehicleEF	LDT1	0.16	0.58
tblVehicleEF	LDT1	0.12	0.24
tblVehicleEF	LDT2	4.9450e-003	3.0040e-003
tblVehicleEF	LDT2	3.7720e-003	0.05
tblVehicleEF	LDT2	0.65	0.73
tblVehicleEF	LDT2	0.94	2.21
tblVehicleEF	LDT2	322.39	286.61
tblVehicleEF	LDT2	65.72	56.77
tblVehicleEF	LDT2	0.05	0.05
tblVehicleEF	LDT2	0.06	0.18
tblVehicleEF	LDT2	2.0690e-003	1.5480e-003
tblVehicleEF	LDT2	2.3470e-003	1.5640e-003
tblVehicleEF	LDT2	1.9030e-003	1.4250e-003
tblVehicleEF	LDT2	2.1580e-003	1.4380e-003
tblVehicleEF	LDT2	0.04	0.06
tblVehicleEF	LDT2	0.08	0.09
tblVehicleEF	LDT2	0.04	0.06
tblVehicleEF	LDT2	0.01	0.01
tblVehicleEF	LDT2	0.06	0.34
tblVehicleEF	LDT2	0.05	0.21
tblVehicleEF	LDT2	3.2280e-003	2.8350e-003
tblVehicleEF	LDT2	6.7200e-004	5.6200e-004
tblVehicleEF	LDT2	0.04	0.06
tblVehicleEF	LDT2	0.08	0.09
tblVehicleEF	LDT2	0.04	0.06
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.06	0.34

tblVehicleEF	LDT2	0.06	0.22
tblVehicleEF	LDT2	5.2500e-003	3.2070e-003
tblVehicleEF	LDT2	3.3720e-003	0.04
tblVehicleEF	LDT2	0.72	0.81
tblVehicleEF	LDT2	0.81	1.89
tblVehicleEF	LDT2	336.78	296.59
tblVehicleEF	LDT2	65.72	56.18
tblVehicleEF	LDT2	0.05	0.04
tblVehicleEF	LDT2	0.06	0.17
tblVehicleEF	LDT2	2.0690e-003	1.5480e-003
tblVehicleEF	LDT2	2.0690e-003	1.5480e-003
tblVehicleEF	LDT2	2.3470e-003	1.5640e-003
tblVehicleEF	LDT2	1.9030e-003	1.4250e-003
tblVehicleEF	LDT2	2.1580e-003	1.4380e-003
tblVehicleEF	LDT2	0.06	0.09
tblVehicleEF	LDT2	0.08	0.10
tblVehicleEF	LDT2	0.05	0.09
tblVehicleEF	LDT2	0.01	0.01
tblVehicleEF	LDT2	0.05	0.32
tblVehicleEF	LDT2	0.05	0.18
tblVehicleEF	LDT2	3.3730e-003	2.9340e-003
tblVehicleEF	LDT2	6.7000e-004	5.5600e-004
tblVehicleEF	LDT2	0.06	0.09
tblVehicleEF	LDT2	0.08	0.10
tblVehicleEF	LDT2	0.05	0.09
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.05	0.32

tblVehicleEF	LDT2	0.05	0.20
tblVehicleEF	LDT2	4.8460e-003	2.9410e-003
tblVehicleEF	LDT2	3.8580e-003	0.05
tblVehicleEF	LDT2	0.63	0.71
tblVehicleEF	LDT2	0.97	2.29
tblVehicleEF	LDT2	317.09	282.95
tblVehicleEF	LDT2	65.72	56.90
tblVehicleEF	LDT2	0.05	0.05
tblVehicleEF	LDT2	0.06	0.19
tblVehicleEF	LDT2	2.0690e-003	1.5480e-003
tblVehicleEF	LDT2	2.3470e-003	1.5640e-003
tblVehicleEF	LDT2	1.9030e-003	1.4250e-003
tblVehicleEF	LDT2	2.1580e-003	1.4380e-003
tblVehicleEF	LDT2	0.03	0.06
tblVehicleEF	LDT2	0.08	0.10
tblVehicleEF	LDT2	0.04	0.06
tblVehicleEF	LDT2	0.01	0.01
tblVehicleEF	LDT2	0.07	0.40
tblVehicleEF	LDT2	0.05	0.21
tblVehicleEF	LDT2	3.1750e-003	2.7990e-003
tblVehicleEF	LDT2	6.7300e-004	5.6300e-004
tblVehicleEF	LDT2	0.03	0.06
tblVehicleEF	LDT2	0.08	0.10
tblVehicleEF	LDT2	0.04	0.06
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.07	0.40
tblVehicleEF	LDT2	0.06	0.23

tblVehicleEF	LHD1	4.2560e-003	4.5300e-003
tblVehicleEF	LHD1	6.1810e-003	3.2190e-003
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	0.14	0.18
tblVehicleEF	LHD1	0.47	0.36
tblVehicleEF	LHD1	1.90	0.92
tblVehicleEF	LHD1	8.96	8.48
tblVehicleEF	LHD1	567.73	600.46
tblVehicleEF	LHD1	27.87	10.55
tblVehicleEF	LHD1	0.07	0.05
tblVehicleEF	LHD1	0.56	0.34
tblVehicleEF	LHD1	0.72	0.25
tblVehicleEF	LHD1	8.3000e-004	9.0000e-004
tblVehicleEF	LHD1	0.01	9.9110e-003
tblVehicleEF	LHD1	7.6280e-003	5.1900e-003
tblVehicleEF	LHD1	7.3300e-004	2.2200e-004
tblVehicleEF	LHD1	7.9400e-004	8.6100e-004
tblVehicleEF	LHD1	2.5990e-003	2.4780e-003
tblVehicleEF	LHD1	7.2780e-003	4.9400e-003
tblVehicleEF	LHD1	6.7400e-004	2.0400e-004
tblVehicleEF	LHD1	2.2910e-003	1.7550e-003
tblVehicleEF	LHD1	0.08	0.06
tblVehicleEF	LHD1	0.01	0.02
tblVehicleEF	LHD1	1.4720e-003	1.1400e-003
tblVehicleEF	LHD1	0.05	0.03
tblVehicleEF	LHD1	0.25	0.42
tblVehicleEF	LHD1	0.17	0.05

tblVehicleEF	LHD1	8.9000e-005	8.2000e-005
tblVehicleEF	LHD1	5.5510e-003	5.8510e-003
tblVehicleEF	LHD1	3.1400e-004	1.0400e-004
tblVehicleEF	LHD1	2.2910e-003	1.7550e-003
tblVehicleEF	LHD1	0.08	0.06
tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	1.4720e-003	1.1400e-003
tblVehicleEF	LHD1	0.06	0.04
tblVehicleEF	LHD1	0.25	0.42
tblVehicleEF	LHD1	0.19	0.06
tblVehicleEF	LHD1	4.2560e-003	4.5400e-003
tblVehicleEF	LHD1	6.2820e-003	3.2650e-003
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	0.14	0.18
tblVehicleEF	LHD1	0.48	0.37
tblVehicleEF	LHD1	1.81	0.88
tblVehicleEF	LHD1	8.96	8.48
tblVehicleEF	LHD1	567.73	600.47
tblVehicleEF	LHD1	27.87	10.48
tblVehicleEF	LHD1	0.07	0.05
tblVehicleEF	LHD1	0.52	0.32
tblVehicleEF	LHD1	0.69	0.24
tblVehicleEF	LHD1	8.3000e-004	9.0000e-004
tblVehicleEF	LHD1	0.01	9.9110e-003
tblVehicleEF	LHD1	7.6280e-003	5.1900e-003
tblVehicleEF	LHD1	7.6280e-003	5.1900e-003
tblVehicleEF	LHD1	7.3300e-004	2.2200e-004

tblVehicleEF	LHD1	7.9400e-004	8.6100e-004
tblVehicleEF	LHD1	2.5990e-003	2.4780e-003
tblVehicleEF	LHD1	7.2780e-003	4.9400e-003
tblVehicleEF	LHD1	6.7400e-004	2.0400e-004
tblVehicleEF	LHD1	3.4170e-003	2.6250e-003
tblVehicleEF	LHD1	0.08	0.06
tblVehicleEF	LHD1	0.01	0.02
tblVehicleEF	LHD1	2.0400e-003	1.5850e-003
tblVehicleEF	LHD1	0.05	0.03
tblVehicleEF	LHD1	0.25	0.40
tblVehicleEF	LHD1	0.16	0.05
tblVehicleEF	LHD1	8.9000e-005	8.2000e-005
tblVehicleEF	LHD1	5.5510e-003	5.8510e-003
tblVehicleEF	LHD1	3.1200e-004	1.0400e-004
tblVehicleEF	LHD1	3.4170e-003	2.6250e-003
tblVehicleEF	LHD1	0.08	0.06
tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	2.0400e-003	1.5850e-003
tblVehicleEF	LHD1	0.06	0.04
tblVehicleEF	LHD1	0.25	0.40
tblVehicleEF	LHD1	0.18	0.05
tblVehicleEF	LHD1	4.2560e-003	4.5290e-003
tblVehicleEF	LHD1	6.1560e-003	3.2070e-003
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	0.14	0.18
tblVehicleEF	LHD1	0.47	0.36
tblVehicleEF	LHD1	1.91	0.93

tblVehicleEF	LHD1	8.96	8.48
tblVehicleEF	LHD1	567.73	600.45
tblVehicleEF	LHD1	27.87	10.56
tblVehicleEF	LHD1	0.07	0.05
tblVehicleEF	LHD1	0.55	0.34
tblVehicleEF	LHD1	0.73	0.25
tblVehicleEF	LHD1	8.3000e-004	9.0000e-004
tblVehicleEF	LHD1	0.01	9.9110e-003
tblVehicleEF	LHD1	7.6280e-003	5.1900e-003
tblVehicleEF	LHD1	7.3300e-004	2.2200e-004
tblVehicleEF	LHD1	7.9400e-004	8.6100e-004
tblVehicleEF	LHD1	2.5990e-003	2.4780e-003
tblVehicleEF	LHD1	7.2780e-003	4.9400e-003
tblVehicleEF	LHD1	6.7400e-004	2.0400e-004
tblVehicleEF	LHD1	2.3510e-003	1.8010e-003
tblVehicleEF	LHD1	0.09	0.07
tblVehicleEF	LHD1	0.01	0.02
tblVehicleEF	LHD1	1.4360e-003	1.1130e-003
tblVehicleEF	LHD1	0.05	0.03
tblVehicleEF	LHD1	0.28	0.45
tblVehicleEF	LHD1	0.17	0.05
tblVehicleEF	LHD1	8.9000e-005	8.2000e-005
tblVehicleEF	LHD1	5.5510e-003	5.8510e-003
tblVehicleEF	LHD1	3.1400e-004	1.0500e-004
tblVehicleEF	LHD1	2.3510e-003	1.8010e-003
tblVehicleEF	LHD1	0.09	0.07
tblVehicleEF	LHD1	0.02	0.03

tblVehicleEF	LHD1	1.4360e-003	1.1130e-003
tblVehicleEF	LHD1	0.06	0.04
tblVehicleEF	LHD1	0.28	0.45
tblVehicleEF	LHD1	0.19	0.06
tblVehicleEF	LHD2	3.0070e-003	3.0890e-003
tblVehicleEF	LHD2	2.5890e-003	2.5840e-003
tblVehicleEF	LHD2	4.6140e-003	6.9570e-003
tblVehicleEF	LHD2	0.12	0.14
tblVehicleEF	LHD2	0.22	0.27
tblVehicleEF	LHD2	0.99	0.57
tblVehicleEF	LHD2	13.53	13.01
tblVehicleEF	LHD2	591.52	602.25
tblVehicleEF	LHD2	24.15	7.76
tblVehicleEF	LHD2	0.08	0.07
tblVehicleEF	LHD2	0.27	0.43
tblVehicleEF	LHD2	0.35	0.17
tblVehicleEF	LHD2	1.0680e-003	1.3850e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	7.1440e-003	9.4110e-003
tblVehicleEF	LHD2	3.9000e-004	1.2400e-004
tblVehicleEF	LHD2	1.0220e-003	1.3250e-003
tblVehicleEF	LHD2	2.6890e-003	2.6790e-003
tblVehicleEF	LHD2	6.8210e-003	8.9900e-003
tblVehicleEF	LHD2	3.5800e-004	1.1400e-004
tblVehicleEF	LHD2	7.3800e-004	1.0100e-003
tblVehicleEF	LHD2	0.02	0.04
tblVehicleEF	LHD2	0.01	0.02

tblVehicleEF	LHD2	5.2900e-004	6.9100e-004
tblVehicleEF	LHD2	0.04	0.04
tblVehicleEF	LHD2	0.05	0.21
tblVehicleEF	LHD2	0.06	0.03
tblVehicleEF	LHD2	1.3200e-004	1.2400e-004
tblVehicleEF	LHD2	5.7530e-003	5.8170e-003
tblVehicleEF	LHD2	2.5900e-004	7.7000e-005
tblVehicleEF	LHD2	7.3800e-004	1.0100e-003
tblVehicleEF	LHD2	0.02	0.04
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	5.2900e-004	6.9100e-004
tblVehicleEF	LHD2	0.04	0.05
tblVehicleEF	LHD2	0.05	0.21
tblVehicleEF	LHD2	0.07	0.04
tblVehicleEF	LHD2	3.0070e-003	3.0960e-003
tblVehicleEF	LHD2	2.6110e-003	2.6040e-003
tblVehicleEF	LHD2	4.4830e-003	6.7190e-003
tblVehicleEF	LHD2	0.12	0.14
tblVehicleEF	LHD2	0.22	0.27
tblVehicleEF	LHD2	0.95	0.55
tblVehicleEF	LHD2	13.53	13.01
tblVehicleEF	LHD2	591.52	602.26
tblVehicleEF	LHD2	24.15	7.72
tblVehicleEF	LHD2	0.08	0.07
tblVehicleEF	LHD2	0.26	0.41
tblVehicleEF	LHD2	0.34	0.16
tblVehicleEF	LHD2	1.0680e-003	1.3850e-003

tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	7.1440e-003	9.4110e-003
tblVehicleEF	LHD2	7.1440e-003	9.4110e-003
tblVehicleEF	LHD2	3.9000e-004	1.2400e-004
tblVehicleEF	LHD2	1.0220e-003	1.3250e-003
tblVehicleEF	LHD2	2.6890e-003	2.6790e-003
tblVehicleEF	LHD2	6.8210e-003	8.9900e-003
tblVehicleEF	LHD2	3.5800e-004	1.1400e-004
tblVehicleEF	LHD2	1.0990e-003	1.5050e-003
tblVehicleEF	LHD2	0.02	0.04
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	7.3000e-004	9.5700e-004
tblVehicleEF	LHD2	0.04	0.04
tblVehicleEF	LHD2	0.05	0.20
tblVehicleEF	LHD2	0.06	0.03
tblVehicleEF	LHD2	1.3200e-004	1.2400e-004
tblVehicleEF	LHD2	5.7530e-003	5.8170e-003
tblVehicleEF	LHD2	2.5800e-004	7.6000e-005
tblVehicleEF	LHD2	1.0990e-003	1.5050e-003
tblVehicleEF	LHD2	0.02	0.04
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	7.3000e-004	9.5700e-004
tblVehicleEF	LHD2	0.04	0.05
tblVehicleEF	LHD2	0.05	0.20
tblVehicleEF	LHD2	0.07	0.04
tblVehicleEF	LHD2	3.0070e-003	3.0880e-003
tblVehicleEF	LHD2	2.5830e-003	2.5790e-003

tblVehicleEF	LHD2	4.6410e-003	7.0060e-003
tblVehicleEF	LHD2	0.12	0.14
tblVehicleEF	LHD2	0.22	0.27
tblVehicleEF	LHD2	1.00	0.58
tblVehicleEF	LHD2	13.53	13.01
tblVehicleEF	LHD2	591.52	602.25
tblVehicleEF	LHD2	24.15	7.77
tblVehicleEF	LHD2	0.08	0.07
tblVehicleEF	LHD2	0.27	0.43
tblVehicleEF	LHD2	0.36	0.17
tblVehicleEF	LHD2	1.0680e-003	1.3850e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	7.1440e-003	9.4110e-003
tblVehicleEF	LHD2	3.9000e-004	1.2400e-004
tblVehicleEF	LHD2	1.0220e-003	1.3250e-003
tblVehicleEF	LHD2	2.6890e-003	2.6790e-003
tblVehicleEF	LHD2	6.8210e-003	8.9900e-003
tblVehicleEF	LHD2	3.5800e-004	1.1400e-004
tblVehicleEF	LHD2	7.2600e-004	1.0070e-003
tblVehicleEF	LHD2	0.03	0.04
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	5.0900e-004	6.6400e-004
tblVehicleEF	LHD2	0.04	0.04
tblVehicleEF	LHD2	0.06	0.23
tblVehicleEF	LHD2	0.06	0.03
tblVehicleEF	LHD2	1.3200e-004	1.2400e-004
tblVehicleEF	LHD2	5.7530e-003	5.8170e-003

tblVehicleEF	LHD2	2.5900e-004	7.7000e-005
tblVehicleEF	LHD2	7.2600e-004	1.0070e-003
tblVehicleEF	LHD2	0.03	0.04
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	5.0900e-004	6.6400e-004
tblVehicleEF	LHD2	0.04	0.05
tblVehicleEF	LHD2	0.06	0.23
tblVehicleEF	LHD2	0.07	0.04
tblVehicleEF	MCY	0.56	0.38
tblVehicleEF	MCY	0.15	0.23
tblVehicleEF	MCY	18.22	18.36
tblVehicleEF	MCY	9.76	8.64
tblVehicleEF	MCY	191.62	224.56
tblVehicleEF	MCY	42.89	58.24
tblVehicleEF	MCY	1.13	1.13
tblVehicleEF	MCY	0.31	0.26
tblVehicleEF	MCY	2.6300e-003	2.6240e-003
tblVehicleEF	MCY	3.4230e-003	2.9930e-003
tblVehicleEF	MCY	2.4530e-003	2.4480e-003
tblVehicleEF	MCY	3.2050e-003	2.8030e-003
tblVehicleEF	MCY	1.05	1.07
tblVehicleEF	MCY	0.58	0.60
tblVehicleEF	MCY	0.63	0.64
tblVehicleEF	MCY	2.58	2.58
tblVehicleEF	MCY	0.51	1.58
tblVehicleEF	MCY	2.00	1.78
tblVehicleEF	MCY	2.2930e-003	2.2220e-003

tblVehicleEF	MCY	6.4700e-004	5.7600e-004
tblVehicleEF	MCY	1.05	1.07
tblVehicleEF	MCY	0.58	0.60
tblVehicleEF	MCY	0.63	0.64
tblVehicleEF	MCY	3.23	3.24
tblVehicleEF	MCY	0.51	1.58
tblVehicleEF	MCY	2.18	1.93
tblVehicleEF	MCY	0.54	0.37
tblVehicleEF	MCY	0.13	0.21
tblVehicleEF	MCY	17.60	17.73
tblVehicleEF	MCY	8.88	7.83
tblVehicleEF	MCY	191.62	223.36
tblVehicleEF	MCY	42.89	56.31
tblVehicleEF	MCY	0.99	0.99
tblVehicleEF	MCY	0.29	0.25
tblVehicleEF	MCY	2.6300e-003	2.6240e-003
tblVehicleEF	MCY	2.6300e-003	2.6240e-003
tblVehicleEF	MCY	3.4230e-003	2.9930e-003
tblVehicleEF	MCY	2.4530e-003	2.4480e-003
tblVehicleEF	MCY	3.2050e-003	2.8030e-003
tblVehicleEF	MCY	1.69	1.72
tblVehicleEF	MCY	0.65	0.67
tblVehicleEF	MCY	1.03	1.04
tblVehicleEF	MCY	2.52	2.53
tblVehicleEF	MCY	0.47	1.48
tblVehicleEF	MCY	1.79	1.58
tblVehicleEF	MCY	2.2820e-003	2.2100e-003

tblVehicleEF	MCY	6.2600e-004	5.5700e-004
tblVehicleEF	MCY	1.69	1.72
tblVehicleEF	MCY	0.65	0.67
tblVehicleEF	MCY	1.03	1.04
tblVehicleEF	MCY	3.17	3.17
tblVehicleEF	MCY	0.47	1.48
tblVehicleEF	MCY	1.95	1.72
tblVehicleEF	MCY	0.56	0.38
tblVehicleEF	MCY	0.15	0.23
tblVehicleEF	MCY	18.32	18.46
tblVehicleEF	MCY	9.91	8.79
tblVehicleEF	MCY	191.62	224.74
tblVehicleEF	MCY	42.89	58.60
tblVehicleEF	MCY	1.10	1.11
tblVehicleEF	MCY	0.31	0.27
tblVehicleEF	MCY	2.6300e-003	2.6240e-003
tblVehicleEF	MCY	3.4230e-003	2.9930e-003
tblVehicleEF	MCY	2.4530e-003	2.4480e-003
tblVehicleEF	MCY	3.2050e-003	2.8030e-003
tblVehicleEF	MCY	1.14	1.16
tblVehicleEF	MCY	0.74	0.77
tblVehicleEF	MCY	0.60	0.60
tblVehicleEF	MCY	2.58	2.59
tblVehicleEF	MCY	0.59	1.85
tblVehicleEF	MCY	2.04	1.81
tblVehicleEF	MCY	2.2950e-003	2.2240e-003
tblVehicleEF	MCY	6.5100e-004	5.8000e-004

tblVehicleEF	MCY	1.14	1.16
tblVehicleEF	MCY	0.74	0.77
tblVehicleEF	MCY	0.60	0.60
tblVehicleEF	MCY	3.24	3.25
tblVehicleEF	MCY	0.59	1.85
tblVehicleEF	MCY	2.22	1.97
tblVehicleEF	MDV	8.0950e-003	3.5000e-003
tblVehicleEF	MDV	7.5800e-003	0.05
tblVehicleEF	MDV	0.89	0.78
tblVehicleEF	MDV	1.51	2.36
tblVehicleEF	MDV	435.10	352.23
tblVehicleEF	MDV	87.36	68.49
tblVehicleEF	MDV	0.09	0.06
tblVehicleEF	MDV	0.12	0.21
tblVehicleEF	MDV	2.1200e-003	1.5760e-003
tblVehicleEF	MDV	2.3330e-003	1.5670e-003
tblVehicleEF	MDV	1.9530e-003	1.4520e-003
tblVehicleEF	MDV	2.1450e-003	1.4410e-003
tblVehicleEF	MDV	0.06	0.07
tblVehicleEF	MDV	0.12	0.11
tblVehicleEF	MDV	0.06	0.08
tblVehicleEF	MDV	0.02	0.01
tblVehicleEF	MDV	0.08	0.35
tblVehicleEF	MDV	0.10	0.24
tblVehicleEF	MDV	4.3540e-003	3.4810e-003
tblVehicleEF	MDV	8.9900e-004	6.7800e-004
tblVehicleEF	MDV	0.06	0.07

tblVehicleEF	MDV	0.12	0.11
tblVehicleEF	MDV	0.06	0.08
tblVehicleEF	MDV	0.03	0.02
tblVehicleEF	MDV	0.08	0.35
tblVehicleEF	MDV	0.11	0.26
tblVehicleEF	MDV	8.5850e-003	3.7380e-003
tblVehicleEF	MDV	6.7500e-003	0.05
tblVehicleEF	MDV	0.98	0.86
tblVehicleEF	MDV	1.30	2.01
tblVehicleEF	MDV	454.05	362.48
tblVehicleEF	MDV	87.36	67.85
tblVehicleEF	MDV	0.08	0.05
tblVehicleEF	MDV	0.11	0.19
tblVehicleEF	MDV	2.1200e-003	1.5760e-003
tblVehicleEF	MDV	2.1200e-003	1.5760e-003
tblVehicleEF	MDV	2.3330e-003	1.5670e-003
tblVehicleEF	MDV	1.9530e-003	1.4520e-003
tblVehicleEF	MDV	2.1450e-003	1.4410e-003
tblVehicleEF	MDV	0.09	0.11
tblVehicleEF	MDV	0.13	0.11
tblVehicleEF	MDV	0.08	0.10
tblVehicleEF	MDV	0.02	0.02
tblVehicleEF	MDV	0.07	0.33
tblVehicleEF	MDV	0.09	0.21
tblVehicleEF	MDV	4.5440e-003	3.5830e-003
tblVehicleEF	MDV	8.9500e-004	6.7100e-004
tblVehicleEF	MDV	0.09	0.11

tblVehicleEF	MDV	0.13	0.11
tblVehicleEF	MDV	0.08	0.10
tblVehicleEF	MDV	0.03	0.02
tblVehicleEF	MDV	0.07	0.33
tblVehicleEF	MDV	0.10	0.23
tblVehicleEF	MDV	7.9350e-003	3.4270e-003
tblVehicleEF	MDV	7.7540e-003	0.05
tblVehicleEF	MDV	0.86	0.75
tblVehicleEF	MDV	1.56	2.44
tblVehicleEF	MDV	428.14	348.48
tblVehicleEF	MDV	87.36	68.63
tblVehicleEF	MDV	0.09	0.06
tblVehicleEF	MDV	0.12	0.21
tblVehicleEF	MDV	2.1200e-003	1.5760e-003
tblVehicleEF	MDV	2.3330e-003	1.5670e-003
tblVehicleEF	MDV	1.9530e-003	1.4520e-003
tblVehicleEF	MDV	2.1450e-003	1.4410e-003
tblVehicleEF	MDV	0.05	0.06
tblVehicleEF	MDV	0.13	0.11
tblVehicleEF	MDV	0.06	0.07
tblVehicleEF	MDV	0.02	0.01
tblVehicleEF	MDV	0.09	0.41
tblVehicleEF	MDV	0.10	0.24
tblVehicleEF	MDV	4.2840e-003	3.4440e-003
tblVehicleEF	MDV	9.0000e-004	6.7900e-004
tblVehicleEF	MDV	0.05	0.06
tblVehicleEF	MDV	0.13	0.11

tblVehicleEF	MDV	0.06	0.07
tblVehicleEF	MDV	0.03	0.02
tblVehicleEF	MDV	0.09	0.41
tblVehicleEF	MDV	0.11	0.27
tblVehicleEF	MH	0.01	5.4870e-003
tblVehicleEF	MH	0.02	0.02
tblVehicleEF	MH	0.88	0.48
tblVehicleEF	MH	4.13	1.74
tblVehicleEF	MH	1,114.66	1,368.13
tblVehicleEF	MH	58.37	16.94
tblVehicleEF	MH	0.78	0.93
tblVehicleEF	MH	0.63	0.24
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	0.01	0.02
tblVehicleEF	MH	9.1100e-004	2.2800e-004
tblVehicleEF	MH	3.2110e-003	3.2730e-003
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	8.3800e-004	2.1000e-004
tblVehicleEF	MH	0.60	0.49
tblVehicleEF	MH	0.04	0.03
tblVehicleEF	MH	0.28	0.23
tblVehicleEF	MH	0.04	0.03
tblVehicleEF	MH	0.01	0.77
tblVehicleEF	MH	0.24	0.08
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	6.5500e-004	1.6800e-004
tblVehicleEF	MH	0.60	0.49

tblVehicleEF	MH	0.04	0.03
tblVehicleEF	MH	0.28	0.23
tblVehicleEF	MH	0.06	0.04
tblVehicleEF	MH	0.01	0.77
tblVehicleEF	MH	0.26	0.09
tblVehicleEF	MH	0.01	5.5950e-003
tblVehicleEF	MH	0.02	0.02
tblVehicleEF	MH	0.91	0.50
tblVehicleEF	MH	3.89	1.64
tblVehicleEF	MH	1,114.66	1,368.15
tblVehicleEF	MH	58.37	16.77
tblVehicleEF	MH	0.73	0.86
tblVehicleEF	MH	0.61	0.23
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	0.01	0.02
tblVehicleEF	MH	0.01	0.02
tblVehicleEF	MH	9.1100e-004	2.2800e-004
tblVehicleEF	MH	3.2110e-003	3.2730e-003
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	8.3800e-004	2.1000e-004
tblVehicleEF	MH	0.89	0.72
tblVehicleEF	MH	0.04	0.04
tblVehicleEF	MH	0.39	0.32
tblVehicleEF	MH	0.04	0.03
tblVehicleEF	MH	0.01	0.75
tblVehicleEF	MH	0.23	0.07
tblVehicleEF	MH	0.01	0.01

tblVehicleEF	MH	6.5100e-004	1.6600e-004
tblVehicleEF	MH	0.89	0.72
tblVehicleEF	MH	0.04	0.04
tblVehicleEF	MH	0.39	0.32
tblVehicleEF	MH	0.06	0.05
tblVehicleEF	MH	0.01	0.75
tblVehicleEF	MH	0.25	0.08
tblVehicleEF	MH	0.01	5.4580e-003
tblVehicleEF	MH	0.02	0.02
tblVehicleEF	MH	0.88	0.48
tblVehicleEF	MH	4.17	1.75
tblVehicleEF	MH	1,114.66	1,368.12
tblVehicleEF	MH	58.37	16.97
tblVehicleEF	MH	0.77	0.91
tblVehicleEF	MH	0.64	0.25
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	0.01	0.02
tblVehicleEF	MH	9.1100e-004	2.2800e-004
tblVehicleEF	MH	3.2110e-003	3.2730e-003
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	8.3800e-004	2.1000e-004
tblVehicleEF	MH	0.66	0.52
tblVehicleEF	MH	0.05	0.04
tblVehicleEF	MH	0.28	0.23
tblVehicleEF	MH	0.04	0.03
tblVehicleEF	MH	0.01	0.82
tblVehicleEF	MH	0.24	0.08

tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	6.5600e-004	1.6800e-004
tblVehicleEF	MH	0.66	0.52
tblVehicleEF	MH	0.05	0.04
tblVehicleEF	MH	0.28	0.23
tblVehicleEF	MH	0.06	0.04
tblVehicleEF	MH	0.01	0.82
tblVehicleEF	MH	0.26	0.09
tblVehicleEF	MHD	0.02	4.1040e-003
tblVehicleEF	MHD	2.6900e-003	1.2130e-003
tblVehicleEF	MHD	0.04	9.8110e-003
tblVehicleEF	MHD	0.34	0.39
tblVehicleEF	MHD	0.24	0.16
tblVehicleEF	MHD	4.12	1.04
tblVehicleEF	MHD	136.44	60.57
tblVehicleEF	MHD	1,129.34	958.19
tblVehicleEF	MHD	58.54	10.04
tblVehicleEF	MHD	0.35	0.31
tblVehicleEF	MHD	0.72	1.08
tblVehicleEF	MHD	10.39	1.64
tblVehicleEF	MHD	6.3000e-005	1.8200e-004
tblVehicleEF	MHD	2.8540e-003	6.2720e-003
tblVehicleEF	MHD	7.4300e-004	1.1500e-004
tblVehicleEF	MHD	6.1000e-005	1.7400e-004
tblVehicleEF	MHD	2.7260e-003	5.9950e-003
tblVehicleEF	MHD	6.8300e-004	1.0600e-004
tblVehicleEF	MHD	8.2500e-004	4.4700e-004

tblVehicleEF	MHD	0.04	0.02
tblVehicleEF	MHD	0.02	0.02
tblVehicleEF	MHD	5.9500e-004	3.1800e-004
tblVehicleEF	MHD	0.03	0.01
tblVehicleEF	MHD	0.02	0.10
tblVehicleEF	MHD	0.26	0.05
tblVehicleEF	MHD	1.3130e-003	5.7600e-004
tblVehicleEF	MHD	0.01	9.1570e-003
tblVehicleEF	MHD	6.5700e-004	9.9000e-005
tblVehicleEF	MHD	8.2500e-004	4.4700e-004
tblVehicleEF	MHD	0.04	0.02
tblVehicleEF	MHD	0.03	0.03
tblVehicleEF	MHD	5.9500e-004	3.1800e-004
tblVehicleEF	MHD	0.04	0.01
tblVehicleEF	MHD	0.02	0.10
tblVehicleEF	MHD	0.28	0.05
tblVehicleEF	MHD	0.01	3.8990e-003
tblVehicleEF	MHD	2.7180e-003	1.2350e-003
tblVehicleEF	MHD	0.03	9.4620e-003
tblVehicleEF	MHD	0.25	0.33
tblVehicleEF	MHD	0.24	0.17
tblVehicleEF	MHD	3.91	0.99
tblVehicleEF	MHD	144.51	60.39
tblVehicleEF	MHD	1,129.34	958.20
tblVehicleEF	MHD	58.54	9.95
tblVehicleEF	MHD	0.36	0.30
tblVehicleEF	MHD	0.67	1.02

tblVehicleEF	MHD	10.37	1.63
tblVehicleEF	MHD	5.3000e-005	1.5600e-004
tblVehicleEF	MHD	2.8540e-003	6.2720e-003
tblVehicleEF	MHD	2.8540e-003	6.2720e-003
tblVehicleEF	MHD	7.4300e-004	1.1500e-004
tblVehicleEF	MHD	5.1000e-005	1.4900e-004
tblVehicleEF	MHD	2.7260e-003	5.9950e-003
tblVehicleEF	MHD	6.8300e-004	1.0600e-004
tblVehicleEF	MHD	1.2300e-003	6.6700e-004
tblVehicleEF	MHD	0.04	0.02
tblVehicleEF	MHD	0.02	0.02
tblVehicleEF	MHD	8.2400e-004	4.4100e-004
tblVehicleEF	MHD	0.03	0.01
tblVehicleEF	MHD	0.02	0.10
tblVehicleEF	MHD	0.25	0.05
tblVehicleEF	MHD	1.3890e-003	5.7400e-004
tblVehicleEF	MHD	0.01	9.1570e-003
tblVehicleEF	MHD	6.5400e-004	9.9000e-005
tblVehicleEF	MHD	1.2300e-003	6.6700e-004
tblVehicleEF	MHD	0.04	0.02
tblVehicleEF	MHD	0.03	0.03
tblVehicleEF	MHD	8.2400e-004	4.4100e-004
tblVehicleEF	MHD	0.04	0.01
tblVehicleEF	MHD	0.02	0.10
tblVehicleEF	MHD	0.27	0.05
tblVehicleEF	MHD	0.02	4.4000e-003
tblVehicleEF	MHD	2.6830e-003	1.2060e-003

tblVehicleEF	MHD	0.04	9.8670e-003
tblVehicleEF	MHD	0.47	0.47
tblVehicleEF	MHD	0.24	0.16
tblVehicleEF	MHD	4.16	1.05
tblVehicleEF	MHD	125.27	60.83
tblVehicleEF	MHD	1,129.34	958.19
tblVehicleEF	MHD	58.54	10.06
tblVehicleEF	MHD	0.34	0.33
tblVehicleEF	MHD	0.70	1.06
tblVehicleEF	MHD	10.40	1.64
tblVehicleEF	MHD	7.7000e-005	2.1700e-004
tblVehicleEF	MHD	2.8540e-003	6.2720e-003
tblVehicleEF	MHD	7.4300e-004	1.1500e-004
tblVehicleEF	MHD	7.4000e-005	2.0800e-004
tblVehicleEF	MHD	2.7260e-003	5.9950e-003
tblVehicleEF	MHD	6.8300e-004	1.0600e-004
tblVehicleEF	MHD	8.1200e-004	4.4200e-004
tblVehicleEF	MHD	0.04	0.02
tblVehicleEF	MHD	0.03	0.02
tblVehicleEF	MHD	5.7200e-004	3.0600e-004
tblVehicleEF	MHD	0.03	0.01
tblVehicleEF	MHD	0.02	0.11
tblVehicleEF	MHD	0.26	0.05
tblVehicleEF	MHD	1.2080e-003	5.7800e-004
tblVehicleEF	MHD	0.01	9.1570e-003
tblVehicleEF	MHD	6.5800e-004	1.0000e-004
tblVehicleEF	MHD	8.1200e-004	4.4200e-004

tblVehicleEF	MHD	0.04	0.02
tblVehicleEF	MHD	0.04	0.03
tblVehicleEF	MHD	5.7200e-004	3.0600e-004
tblVehicleEF	MHD	0.04	0.01
tblVehicleEF	MHD	0.02	0.11
tblVehicleEF	MHD	0.28	0.05
tblVehicleEF	OBUS	0.01	8.1460e-003
tblVehicleEF	OBUS	4.3340e-003	3.1690e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.25	0.66
tblVehicleEF	OBUS	0.34	0.39
tblVehicleEF	OBUS	4.42	2.04
tblVehicleEF	OBUS	110.83	96.32
tblVehicleEF	OBUS	1,238.95	1,243.39
tblVehicleEF	OBUS	66.39	17.04
tblVehicleEF	OBUS	0.24	0.40
tblVehicleEF	OBUS	0.71	1.14
tblVehicleEF	OBUS	2.54	0.91
tblVehicleEF	OBUS	2.2000e-005	1.3700e-004
tblVehicleEF	OBUS	2.8890e-003	7.3770e-003
tblVehicleEF	OBUS	9.0300e-004	1.9900e-004
tblVehicleEF	OBUS	2.1000e-005	1.3100e-004
tblVehicleEF	OBUS	2.7470e-003	7.0430e-003
tblVehicleEF	OBUS	8.3000e-004	1.8300e-004
tblVehicleEF	OBUS	1.3730e-003	1.7400e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.03	0.05

tblVehicleEF	OBUS	7.6800e-004	9.2700e-004
tblVehicleEF	OBUS	0.04	0.02
tblVehicleEF	OBUS	0.04	0.27
tblVehicleEF	OBUS	0.28	0.10
tblVehicleEF	OBUS	1.0690e-003	9.1600e-004
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	7.4100e-004	1.6900e-004
tblVehicleEF	OBUS	1.3730e-003	1.7400e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.05	0.07
tblVehicleEF	OBUS	7.6800e-004	9.2700e-004
tblVehicleEF	OBUS	0.05	0.03
tblVehicleEF	OBUS	0.04	0.27
tblVehicleEF	OBUS	0.31	0.11
tblVehicleEF	OBUS	0.01	8.2450e-003
tblVehicleEF	OBUS	4.3990e-003	3.2360e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.24	0.66
tblVehicleEF	OBUS	0.34	0.40
tblVehicleEF	OBUS	4.18	1.93
tblVehicleEF	OBUS	116.45	95.19
tblVehicleEF	OBUS	1,238.95	1,243.40
tblVehicleEF	OBUS	66.39	16.85
tblVehicleEF	OBUS	0.25	0.38
tblVehicleEF	OBUS	0.67	1.07
tblVehicleEF	OBUS	2.51	0.90
tblVehicleEF	OBUS	1.9000e-005	1.2200e-004

tblVehicleEF	OBUS	2.8890e-003	7.3770e-003
tblVehicleEF	OBUS	2.8890e-003	7.3770e-003
tblVehicleEF	OBUS	9.0300e-004	1.9900e-004
tblVehicleEF	OBUS	1.8000e-005	1.1600e-004
tblVehicleEF	OBUS	2.7470e-003	7.0430e-003
tblVehicleEF	OBUS	8.3000e-004	1.8300e-004
tblVehicleEF	OBUS	2.0060e-003	2.5300e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.03	0.06
tblVehicleEF	OBUS	1.0690e-003	1.2870e-003
tblVehicleEF	OBUS	0.04	0.02
tblVehicleEF	OBUS	0.04	0.26
tblVehicleEF	OBUS	0.27	0.09
tblVehicleEF	OBUS	1.1230e-003	9.0500e-004
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	7.3700e-004	1.6700e-004
tblVehicleEF	OBUS	2.0060e-003	2.5300e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.05	0.07
tblVehicleEF	OBUS	1.0690e-003	1.2870e-003
tblVehicleEF	OBUS	0.05	0.03
tblVehicleEF	OBUS	0.04	0.26
tblVehicleEF	OBUS	0.29	0.10
tblVehicleEF	OBUS	0.01	8.0300e-003
tblVehicleEF	OBUS	4.3170e-003	3.1500e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.26	0.67

tblVehicleEF	OBUS	0.34	0.39
tblVehicleEF	OBUS	4.47	2.06
tblVehicleEF	OBUS	103.07	97.88
tblVehicleEF	OBUS	1,238.95	1,243.39
tblVehicleEF	OBUS	66.39	17.08
tblVehicleEF	OBUS	0.23	0.43
tblVehicleEF	OBUS	0.70	1.12
tblVehicleEF	OBUS	2.55	0.91
tblVehicleEF	OBUS	2.7000e-005	1.5800e-004
tblVehicleEF	OBUS	2.8890e-003	7.3770e-003
tblVehicleEF	OBUS	9.0300e-004	1.9900e-004
tblVehicleEF	OBUS	2.6000e-005	1.5100e-004
tblVehicleEF	OBUS	2.7470e-003	7.0430e-003
tblVehicleEF	OBUS	8.3000e-004	1.8300e-004
tblVehicleEF	OBUS	1.3690e-003	1.7750e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.03	0.05
tblVehicleEF	OBUS	7.4000e-004	9.0000e-004
tblVehicleEF	OBUS	0.04	0.02
tblVehicleEF	OBUS	0.04	0.28
tblVehicleEF	OBUS	0.28	0.10
tblVehicleEF	OBUS	9.9500e-004	9.3000e-004
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	7.4200e-004	1.6900e-004
tblVehicleEF	OBUS	1.3690e-003	1.7750e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.05	0.07

tblVehicleEF	OBUS	7.4000e-004	9.0000e-004
tblVehicleEF	OBUS	0.05	0.03
tblVehicleEF	OBUS	0.04	0.28
tblVehicleEF	OBUS	0.31	0.11
tblVehicleEF	SBUS	0.82	0.09
tblVehicleEF	SBUS	7.4820e-003	5.0500e-003
tblVehicleEF	SBUS	0.05	7.4940e-003
tblVehicleEF	SBUS	8.83	3.52
tblVehicleEF	SBUS	0.46	0.43
tblVehicleEF	SBUS	6.65	0.99
tblVehicleEF	SBUS	1,045.60	346.55
tblVehicleEF	SBUS	1,039.98	1,026.23
tblVehicleEF	SBUS	61.37	6.29
tblVehicleEF	SBUS	5.89	2.61
tblVehicleEF	SBUS	2.51	3.41
tblVehicleEF	SBUS	10.85	1.16
tblVehicleEF	SBUS	4.1530e-003	2.3940e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.01	0.02
tblVehicleEF	SBUS	1.0090e-003	7.5000e-005
tblVehicleEF	SBUS	3.9730e-003	2.2900e-003
tblVehicleEF	SBUS	2.6260e-003	2.6300e-003
tblVehicleEF	SBUS	0.01	0.02
tblVehicleEF	SBUS	9.2800e-004	6.9000e-005
tblVehicleEF	SBUS	3.6590e-003	1.1240e-003
tblVehicleEF	SBUS	0.03	9.7980e-003
tblVehicleEF	SBUS	1.05	0.40

tblVehicleEF	SBUS	2.1420e-003	6.5800e-004
tblVehicleEF	SBUS	0.08	0.07
tblVehicleEF	SBUS	0.02	0.06
tblVehicleEF	SBUS	0.36	0.04
tblVehicleEF	SBUS	0.01	3.3130e-003
tblVehicleEF	SBUS	0.01	9.8310e-003
tblVehicleEF	SBUS	7.2900e-004	6.2000e-005
tblVehicleEF	SBUS	3.6590e-003	1.1240e-003
tblVehicleEF	SBUS	0.03	9.7980e-003
tblVehicleEF	SBUS	1.52	0.58
tblVehicleEF	SBUS	2.1420e-003	6.5800e-004
tblVehicleEF	SBUS	0.09	0.08
tblVehicleEF	SBUS	0.02	0.06
tblVehicleEF	SBUS	0.39	0.05
tblVehicleEF	SBUS	0.82	0.09
tblVehicleEF	SBUS	7.5850e-003	5.1060e-003
tblVehicleEF	SBUS	0.05	6.6750e-003
tblVehicleEF	SBUS	8.76	3.49
tblVehicleEF	SBUS	0.47	0.43
tblVehicleEF	SBUS	5.40	0.80
tblVehicleEF	SBUS	1,089.74	351.36
tblVehicleEF	SBUS	1,039.98	1,026.24
tblVehicleEF	SBUS	61.37	5.98
tblVehicleEF	SBUS	6.08	2.64
tblVehicleEF	SBUS	2.36	3.21
tblVehicleEF	SBUS	10.83	1.16
tblVehicleEF	SBUS	3.5010e-003	2.0270e-003

tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.01	0.02
tblVehicleEF	SBUS	0.01	0.02
tblVehicleEF	SBUS	1.0090e-003	7.5000e-005
tblVehicleEF	SBUS	3.3500e-003	1.9390e-003
tblVehicleEF	SBUS	2.6260e-003	2.6300e-003
tblVehicleEF	SBUS	0.01	0.02
tblVehicleEF	SBUS	9.2800e-004	6.9000e-005
tblVehicleEF	SBUS	5.3670e-003	1.6330e-003
tblVehicleEF	SBUS	0.03	9.9100e-003
tblVehicleEF	SBUS	1.05	0.40
tblVehicleEF	SBUS	2.9710e-003	9.0400e-004
tblVehicleEF	SBUS	0.08	0.07
tblVehicleEF	SBUS	0.01	0.05
tblVehicleEF	SBUS	0.32	0.04
tblVehicleEF	SBUS	0.01	3.3590e-003
tblVehicleEF	SBUS	0.01	9.8310e-003
tblVehicleEF	SBUS	7.0800e-004	5.9000e-005
tblVehicleEF	SBUS	5.3670e-003	1.6330e-003
tblVehicleEF	SBUS	0.03	9.9100e-003
tblVehicleEF	SBUS	1.52	0.58
tblVehicleEF	SBUS	2.9710e-003	9.0400e-004
tblVehicleEF	SBUS	0.09	0.08
tblVehicleEF	SBUS	0.01	0.05
tblVehicleEF	SBUS	0.35	0.04
tblVehicleEF	SBUS	0.82	0.09
tblVehicleEF	SBUS	7.4520e-003	5.0340e-003

tblVehicleEF	SBUS	0.05	7.6750e-003
tblVehicleEF	SBUS	8.94	3.55
tblVehicleEF	SBUS	0.46	0.43
tblVehicleEF	SBUS	6.87	1.02
tblVehicleEF	SBUS	984.65	339.91
tblVehicleEF	SBUS	1,039.98	1,026.22
tblVehicleEF	SBUS	61.37	6.35
tblVehicleEF	SBUS	5.63	2.56
tblVehicleEF	SBUS	2.46	3.35
tblVehicleEF	SBUS	10.86	1.16
tblVehicleEF	SBUS	5.0540e-003	2.9000e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.01	0.02
tblVehicleEF	SBUS	1.0090e-003	7.5000e-005
tblVehicleEF	SBUS	4.8350e-003	2.7750e-003
tblVehicleEF	SBUS	2.6260e-003	2.6300e-003
tblVehicleEF	SBUS	0.01	0.02
tblVehicleEF	SBUS	9.2800e-004	6.9000e-005
tblVehicleEF	SBUS	3.5510e-003	1.0900e-003
tblVehicleEF	SBUS	0.03	0.01
tblVehicleEF	SBUS	1.05	0.40
tblVehicleEF	SBUS	2.0480e-003	6.2800e-004
tblVehicleEF	SBUS	0.08	0.07
tblVehicleEF	SBUS	0.02	0.07
tblVehicleEF	SBUS	0.37	0.04
tblVehicleEF	SBUS	9.7050e-003	3.2510e-003
tblVehicleEF	SBUS	0.01	9.8310e-003

tblVehicleEF	SBUS	7.3300e-004	6.3000e-005
tblVehicleEF	SBUS	3.5510e-003	1.0900e-003
tblVehicleEF	SBUS	0.03	0.01
tblVehicleEF	SBUS	1.52	0.58
tblVehicleEF	SBUS	2.0480e-003	6.2800e-004
tblVehicleEF	SBUS	0.09	0.08
tblVehicleEF	SBUS	0.02	0.07
tblVehicleEF	SBUS	0.40	0.05
tblVehicleEF	UBUS	1.88	5.86
tblVehicleEF	UBUS	0.05	9.5110e-003
tblVehicleEF	UBUS	8.02	45.55
tblVehicleEF	UBUS	7.96	0.70
tblVehicleEF	UBUS	1,861.01	1,975.40
tblVehicleEF	UBUS	115.72	7.56
tblVehicleEF	UBUS	5.97	0.47
tblVehicleEF	UBUS	13.96	0.07
tblVehicleEF	UBUS	0.56	0.07
tblVehicleEF	UBUS	0.01	0.03
tblVehicleEF	UBUS	0.08	3.2830e-003
tblVehicleEF	UBUS	1.2270e-003	8.6000e-005
tblVehicleEF	UBUS	0.24	0.03
tblVehicleEF	UBUS	3.0000e-003	7.9830e-003
tblVehicleEF	UBUS	0.07	3.1350e-003
tblVehicleEF	UBUS	1.1280e-003	7.9000e-005
tblVehicleEF	UBUS	3.4910e-003	2.8200e-004
tblVehicleEF	UBUS	0.05	3.0090e-003
tblVehicleEF	UBUS	2.3560e-003	2.0300e-004

tblVehicleEF	UBUS	0.44	0.09
tblVehicleEF	UBUS	0.02	0.02
tblVehicleEF	UBUS	0.68	0.04
tblVehicleEF	UBUS	9.0350e-003	1.2390e-003
tblVehicleEF	UBUS	1.3030e-003	7.5000e-005
tblVehicleEF	UBUS	3.4910e-003	2.8200e-004
tblVehicleEF	UBUS	0.05	3.0090e-003
tblVehicleEF	UBUS	2.3560e-003	2.0300e-004
tblVehicleEF	UBUS	2.38	5.98
tblVehicleEF	UBUS	0.02	0.02
tblVehicleEF	UBUS	0.75	0.04
tblVehicleEF	UBUS	1.88	5.86
tblVehicleEF	UBUS	0.05	8.8330e-003
tblVehicleEF	UBUS	8.03	45.55
tblVehicleEF	UBUS	6.98	0.62
tblVehicleEF	UBUS	1,861.01	1,975.40
tblVehicleEF	UBUS	115.72	7.41
tblVehicleEF	UBUS	5.63	0.46
tblVehicleEF	UBUS	13.91	0.07
tblVehicleEF	UBUS	0.56	0.07
tblVehicleEF	UBUS	0.01	0.03
tblVehicleEF	UBUS	0.08	3.2830e-003
tblVehicleEF	UBUS	0.08	3.2830e-003
tblVehicleEF	UBUS	1.2270e-003	8.6000e-005
tblVehicleEF	UBUS	0.24	0.03
tblVehicleEF	UBUS	3.0000e-003	7.9830e-003
tblVehicleEF	UBUS	0.07	3.1350e-003

tblVehicleEF	UBUS	1.1280e-003	7.9000e-005
tblVehicleEF	UBUS	5.0250e-003	4.1900e-004
tblVehicleEF	UBUS	0.06	3.1760e-003
tblVehicleEF	UBUS	3.2640e-003	2.9600e-004
tblVehicleEF	UBUS	0.45	0.09
tblVehicleEF	UBUS	0.02	0.01
tblVehicleEF	UBUS	0.63	0.04
tblVehicleEF	UBUS	9.0350e-003	1.2390e-003
tblVehicleEF	UBUS	1.2860e-003	7.3000e-005
tblVehicleEF	UBUS	5.0250e-003	4.1900e-004
tblVehicleEF	UBUS	0.06	3.1760e-003
tblVehicleEF	UBUS	3.2640e-003	2.9600e-004
tblVehicleEF	UBUS	2.38	5.98
tblVehicleEF	UBUS	0.02	0.01
tblVehicleEF	UBUS	0.69	0.04
tblVehicleEF	UBUS	1.88	5.86
tblVehicleEF	UBUS	0.05	9.6600e-003
tblVehicleEF	UBUS	8.01	45.55
tblVehicleEF	UBUS	8.14	0.72
tblVehicleEF	UBUS	1,861.01	1,975.40
tblVehicleEF	UBUS	115.72	7.58
tblVehicleEF	UBUS	5.86	0.46
tblVehicleEF	UBUS	13.97	0.07
tblVehicleEF	UBUS	0.56	0.07
tblVehicleEF	UBUS	0.01	0.03
tblVehicleEF	UBUS	0.08	3.2830e-003
tblVehicleEF	UBUS	1.2270e-003	8.6000e-005

tblVehicleEF	UBUS	0.24	0.03
tblVehicleEF	UBUS	3.0000e-003	7.9830e-003
tblVehicleEF	UBUS	0.07	3.1350e-003
tblVehicleEF	UBUS	1.1280e-003	7.9000e-005
tblVehicleEF	UBUS	3.6960e-003	2.9500e-004
tblVehicleEF	UBUS	0.06	3.3430e-003
tblVehicleEF	UBUS	2.3270e-003	1.9900e-004
tblVehicleEF	UBUS	0.44	0.09
tblVehicleEF	UBUS	0.02	0.02
tblVehicleEF	UBUS	0.69	0.04
tblVehicleEF	UBUS	9.0350e-003	1.2390e-003
tblVehicleEF	UBUS	1.3060e-003	7.5000e-005
tblVehicleEF	UBUS	3.6960e-003	2.9500e-004
tblVehicleEF	UBUS	0.06	3.3430e-003
tblVehicleEF	UBUS	2.3270e-003	1.9900e-004
tblVehicleEF	UBUS	2.38	5.98
tblVehicleEF	UBUS	0.02	0.02
tblVehicleEF	UBUS	0.76	0.05
tblVehicleTrips	PB_TP	44.00	43.00
tblVehicleTrips	PR_TP	38.00	39.00
tblVehicleTrips	ST_TR	6.39	4.97
tblVehicleTrips	ST_TR	22.75	0.00
tblVehicleTrips	ST_TR	4.31	4.97
tblVehicleTrips	ST_TR	20.87	0.00
tblVehicleTrips	ST_TR	94.36	67.14
tblVehicleTrips	ST_TR	9.10	0.00
tblVehicleTrips	SU_TR	5.86	4.97

tblVehicleTrips	SU_TR	16.74	0.00
tblVehicleTrips	SU_TR	3.43	4.97
tblVehicleTrips	SU_TR	26.73	0.00
tblVehicleTrips	SU_TR	72.16	67.14
tblVehicleTrips	SU_TR	13.60	0.00
tblVehicleTrips	WD_TR	6.65	4.97
tblVehicleTrips	WD_TR	1.89	0.00
tblVehicleTrips	WD_TR	4.18	4.97
tblVehicleTrips	WD_TR	32.93	0.00
tblVehicleTrips	WD_TR	89.95	67.14
tblVehicleTrips	WD_TR	33.82	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					
2022	17.7461	146.7820	145.4279	0.4329	29.9754	4.6949	34.6703	8.8738	4.3580	13.2318	0.0000	43,567.8392	43,567.8392	6.0218	0.0000	43,718.3832
2023	20.7946	128.8784	140.6173	0.4292	34.7078	4.2794	38.9872	10.0361	3.9689	14.0049	0.0000	43,170.9701	43,170.9701	6.0674	0.0000	43,322.6549
2024	7.6549	39.5874	64.2070	0.2322	16.7121	0.8323	17.5444	4.4763	0.7860	5.2623	0.0000	23,533.1306	23,533.1306	1.3749	0.0000	23,567.5018
2025	40.5417	40.9298	71.9058	0.2573	19.6630	0.8552	20.5182	5.2590	0.8124	6.0714	0.0000	26,012.2539	26,012.2539	1.4231	0.0000	26,047.8301
2026	40.2697	40.4574	68.9610	0.2517	19.6631	0.8502	20.5132	5.2590	0.8078	6.0668	0.0000	25,461.1947	25,461.1947	1.3882	0.0000	25,495.8985
2027	45.2300	63.0750	104.0101	0.4330	36.3753	0.9655	37.3408	9.7354	0.9147	10.6501	0.0000	44,090.4843	44,090.4843	2.0131	0.0000	44,140.8129
Maximum	**45.2300**	**146.7820**	**145.4279**	**0.4330**	**36.3753**	**4.6949**	**38.9872**	**10.0361**	**4.3580**	**14.0049**	**0.0000**	**44,090.4843**	**44,090.4843**	**6.0674**	**0.0000**	**44,140.8129**

2.1 Overall Construction (Maximum Daily Emission)

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2022	11.0635	86.7815	156.7742	0.4329	18.7148	0.6598	19.3745	5.4188	0.6364	6.0551	0.0000	43,567.8392	43,567.8392	6.0218	0.0000	43,718.3832
2023	14.5016	75.4824	154.8307	0.4292	22.2179	0.5896	22.8076	6.2793	0.5699	6.8492	0.0000	43,170.9701	43,170.9701	6.0674	0.0000	43,322.6549
2024	6.7603	36.6385	66.2373	0.2322	13.0140	0.2277	13.2416	3.5686	0.2178	3.7864	0.0000	23,533.1306	23,533.1306	1.3749	0.0000	23,567.5018
2025	39.5157	38.8537	74.0566	0.2573	15.2979	0.2479	15.5458	4.1875	0.2365	4.4240	0.0000	26,012.2539	26,012.2539	1.4231	0.0000	26,047.8301
2026	39.2437	38.3813	71.1118	0.2517	15.2979	0.2429	15.5409	4.1875	0.2319	4.4194	0.0000	25,461.1947	25,461.1947	1.3882	0.0000	25,495.8985
2027	44.2040	60.9989	106.1609	0.4330	28.3121	0.3583	28.6703	7.7562	0.3388	8.0950	0.0000	44,090.4843	44,090.4843	2.0131	0.0000	44,140.8129
Maximum	**44.2040**	**86.7815**	**156.7742**	**0.4330**	**28.3121**	**0.6598**	**28.6703**	**7.7562**	**0.6364**	**8.0950**	**0.0000**	**44,090.4843**	**44,090.4843**	**6.0674**	**0.0000**	**44,140.8129**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**9.84**	**26.66**	**-5.72**	**0.00**	**28.16**	**81.36**	**32.08**	**28.05**	**80.84**	**39.17**	**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	354.2038	26.3208	717.0158	1.5790		93.2144	93.2144		93.2144	93.2144	11,362.0720	22,014.5448	33,376.6168	34.0574	0.7712	34,457.8616
Energy	0.4108	3.5540	1.8154	0.0224		0.2838	0.2838		0.2838	0.2838		4,481.0009	4,481.0009	0.0859	0.0822	4,507.6293
Mobile	13.0119	28.0677	131.9261	0.4185	45.8543	0.3245	46.1787	12.2481	0.3030	12.5512		43,407.5857	43,407.5857	2.9240		43,480.6856
Total	**367.6264**	**57.9425**	**850.7573**	**2.0199**	**45.8543**	**93.8226**	**139.6769**	**12.2481**	**93.8012**	**106.0493**	**11,362.0720**	**69,903.1314**	**81,265.2034**	**37.0672**	**0.8533**	**82,446.1764**

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	38.4733	19.2625	107.8486	0.1209		2.0195	2.0195		2.0195	2.0195	0.0000	23,298.8977	23,298.8977	0.6166	0.4238	23,440.6152
Energy	0.3165	2.7429	1.4292	0.0173		0.2187	0.2187		0.2187	0.2187		3,453.2105	3,453.2105	0.0662	0.0633	3,473.7312
Mobile	13.0119	28.0677	131.9261	0.4185	45.8543	0.3245	46.1787	12.2481	0.3030	12.5512		43,407.5857	43,407.5857	2.9240		43,480.6856
Total	**51.8017**	**50.0732**	**241.2039**	**0.5566**	**45.8543**	**2.5627**	**48.4169**	**12.2481**	**2.5412**	**14.7894**	**0.0000**	**70,159.6939**	**70,159.6939**	**3.6068**	**0.4872**	**70,395.0320**

	ROG	NOx	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	**85.91**	**13.58**	**71.65**	**72.44**	**0.00**	**97.27**	**65.34**	**0.00**	**97.29**	**86.05**	**100.00**	**-0.37**	**13.67**	**90.27**	**42.91**	**14.62**

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	2/21/2022	3/18/2022	5	20	
2	Demolition (Crusher Use)	Demolition	3/7/2022	3/18/2022	5	10	
3	Grading	Grading	3/21/2022	2/17/2023	5	240	
4	Grading (Sheet Piling)	Grading	11/26/2022	2/17/2023	5	60	
5	Building Construction	Building Construction	8/8/2022	2/12/2027	5	1180	
6	Building Construction (Pile Rig Use)	Building Construction	2/11/2027	2/12/2027	5	2	
7	Paving	Paving	12/26/2022	2/17/2023	5	40	
8	Paving (Crane Use)	Paving	2/13/2023	2/17/2023	5	5	
9	Architectural Coating	Architectural Coating	12/1/2025	2/12/2027	5	315	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 1200

Acres of Paving: 18.76

Residential Indoor: 3,093,580; Residential Outdoor: 1,031,193; Non-Residential Indoor: 43,152; Non-Residential Outdoor: 14,384; Striped Parking Area: 49,639 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Air Compressors	1	8.00	78	0.48

Demolition	Concrete/Industrial Saws	2	8.00	81	0.73
Demolition	Excavators	1	8.00	158	0.38
Demolition	Rubber Tired Dozers	1	8.00	247	0.40
Demolition	Sweepers/Scrubbers	1	8.00	64	0.46
Demolition	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Grading	Concrete/Industrial Saws	1	6.00	81	0.73
Grading	Excavators	2	8.00	158	0.38
Grading	Forklifts	1	6.00	89	0.20
Grading	Graders	2	8.00	187	0.41
Grading	Rollers	2	8.00	80	0.38
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Scrapers	4	8.00	367	0.48
Grading	Sweepers/Scrubbers	1	8.00	64	0.46
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Building Construction	Concrete/Industrial Saws	1	6.00	81	0.73
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Architectural Coating	Air Compressors	2	6.00	78	0.48
Demolition (Crusher Use)	Crushing/Proc. Equipment	1	8.00	85	0.78
Grading	Plate Compactors	0		8	0.43
Grading (Sheet Piling)	Other Construction Equipment	1	8.00	630	0.50

Building Construction (Pile Rig Use)	Other Construction Equipment	1	8.00	630	0.50
Paving (Crane Use)	Cranes	1	8.00	231	0.29
Demolition (Crusher Use)	Concrete/Industrial Saws	0	8.00	81	0.73
Building Construction (Pile Rig Use)	Cranes	0	7.00	231	0.29
Demolition (Crusher Use)	Excavators	0	8.00	158	0.38
Grading (Sheet Piling)	Excavators	0	8.00	158	0.38
Building Construction (Pile Rig Use)	Forklifts	0	8.00	89	0.20
Building Construction (Pile Rig Use)	Generator Sets	0	8.00	84	0.74
Grading (Sheet Piling)	Graders	0	8.00	187	0.41
Paving (Crane Use)	Pavers	0	8.00	130	0.42
Paving (Crane Use)	Paving Equipment	0	8.00	132	0.36
Paving (Crane Use)	Rollers	0	8.00	80	0.38
Demolition (Crusher Use)	Rubber Tired Dozers	0	8.00	247	0.40
Grading (Sheet Piling)	Rubber Tired Dozers	0	8.00	247	0.40
Grading (Sheet Piling)	Scrapers	0	8.00	367	0.48
Building Construction (Pile Rig Use)	Tractors/Loaders/Backhoes	0	7.00	97	0.37
Grading (Sheet Piling)	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Building Construction (Pile Rig Use)	Welders	0	8.00	46	0.45

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	8	20.00	0.00	1,466.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	16	40.00	0.00	15,000.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	10	1,321.00	304.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	2	264.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Demolition (Crusher Use)	1	3.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading (Sheet Piling)	1	3.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction (Pile Rig Use)	1	1,321.00	304.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving (Crane Use)	1	3.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Replace Ground Cover

Water Exposed Area

Water Unpaved Roads

Reduce Vehicle Speed on Unpaved Roads

Clean Paved Roads

3.2 Demolition - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					15.8633	0.0000	15.8633	2.4018	0.0000	2.4018			0.0000			0.0000
Off-Road	2.5504	23.2051	22.9775	0.0389		1.2133	1.2133		1.1490	1.1490		3,736.2983	3,736.2983	0.7928		3,756.1172
Total	**2.5504**	**23.2051**	**22.9775**	**0.0389**	**15.8633**	**1.2133**	**17.0766**	**2.4018**	**1.1490**	**3.5508**		**3,736.2983**	**3,736.2983**	**0.7928**		**3,756.1172**

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	0.5957	18.4740	4.8288	0.0555	1.2817	0.0533	1.3350	0.3514	0.0510	0.4023		6,023.9167	6,023.9167	0.4289		6,034.6389
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0896	0.0589	0.6784	2.0800e-003	0.2236	1.7500e-003	0.2253	0.0593	1.6100e-003	0.0609		206.9139	206.9139	5.7000e-003		207.0563
Total	**0.6852**	**18.5329**	**5.5072**	**0.0575**	**1.5053**	**0.0550**	**1.5603**	**0.4106**	**0.0526**	**0.4632**		**6,230.8306**	**6,230.8306**	**0.4346**		**6,241.6952**

3.2 Demolition - 2022

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					5.8773	0.0000	5.8773	0.8899	0.0000	0.8899			0.0000			0.0000
Off-Road	0.8193	13.2323	24.9869	0.0389		0.1432	0.1432		0.1360	0.1360	0.0000	3,736.2983	3,736.2983	0.7928		3,756.1172
Total	**0.8193**	**13.2323**	**24.9869**	**0.0389**	**5.8773**	**0.1432**	**6.0205**	**0.8899**	**0.1360**	**1.0259**	**0.0000**	**3,736.2983**	**3,736.2983**	**0.7928**		**3,756.1172**

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	0.5957	18.4740	4.8288	0.0555	1.0298	0.0533	1.0830	0.2895	0.0510	0.3405		6,023.9167	6,023.9167	0.4289		6,034.6389
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0896	0.0589	0.6784	2.0800e-003	0.1730	1.7500e-003	0.1748	0.0469	1.6100e-003	0.0485		206.9139	206.9139	5.7000e-003		207.0563
Total	**0.6852**	**18.5329**	**5.5072**	**0.0575**	**1.2028**	**0.0550**	**1.2578**	**0.3364**	**0.0526**	**0.3890**		**6,230.8306**	**6,230.8306**	**0.4346**		**6,241.6952**

3.3 Demolition (Crusher Use) - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.4794	3.2250	4.3312	7.0200e-003		0.1801	0.1801		0.1801	0.1801		664.5301	664.5301	0.0433		665.6118
Total	**0.4794**	**3.2250**	**4.3312**	**7.0200e-003**		**0.1801**	**0.1801**		**0.1801**	**0.1801**		**664.5301**	**664.5301**	**0.0433**		**665.6118**

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	0.0134	8.8400e-003	0.1018	3.1000e-004	0.0335	2.6000e-004	0.0338	8.8900e-003	2.4000e-004	9.1300e-003		31.0371	31.0371	8.5000e-004		31.0585
Total	**0.0134**	**8.8400e-003**	**0.1018**	**3.1000e-004**	**0.0335**	**2.6000e-004**	**0.0338**	**8.8900e-003**	**2.4000e-004**	**9.1300e-003**		**31.0371**	**31.0371**	**8.5000e-004**		**31.0585**

3.3 Demolition (Crusher Use) - 2022

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.1286	2.5024	4.3265	7.0200e-003		9.3500e-003	9.3500e-003		9.3500e-003	9.3500e-003	0.0000	664.5301	664.5301	0.0433		665.6118
Total	**0.1286**	**2.5024**	**4.3265**	**7.0200e-003**		**9.3500e-003**	**9.3500e-003**		**9.3500e-003**	**9.3500e-003**	**0.0000**	**664.5301**	**664.5301**	**0.0433**		**665.6118**

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	0.0134	8.8400e-003	0.1018	3.1000e-004	0.0260	2.6000e-004	0.0262	7.0300e-003	2.4000e-004	7.2700e-003		31.0371	31.0371	8.5000e-004		31.0585
Total	**0.0134**	**8.8400e-003**	**0.1018**	**3.1000e-004**	**0.0260**	**2.6000e-004**	**0.0262**	**7.0300e-003**	**2.4000e-004**	**7.2700e-003**		**31.0371**	**31.0371**	**8.5000e-004**		**31.0585**

3.4 Grading - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					11.3811	0.0000	11.3811	3.8913	0.0000	3.8913			0.0000			0.0000
Off-Road	6.5577	70.1348	52.7664	0.1127		2.9848	2.9848		2.7550	2.7550		10,903.1829	10,903.1829	3.4068		10,988.3529
Total	**6.5577**	**70.1348**	**52.7664**	**0.1127**	**11.3811**	**2.9848**	**14.3659**	**3.8913**	**2.7550**	**6.6464**		**10,903.1829**	**10,903.1829**	**3.4068**		**10,988.3529**

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	0.5079	15.7520	4.1174	0.0473	1.2340	0.0454	1.2794	0.3342	0.0434	0.3777		5,136.3546	5,136.3546	0.3657		5,145.4970
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1791	0.1178	1.3567	4.1500e-003	0.4471	3.5000e-003	0.4506	0.1186	3.2200e-003	0.1218		413.8278	413.8278	0.0114		414.1127
Total	**0.6870**	**15.8699**	**5.4741**	**0.0514**	**1.6811**	**0.0489**	**1.7300**	**0.4528**	**0.0467**	**0.4995**		**5,550.1824**	**5,550.1824**	**0.3771**		**5,559.6097**

3.4 Grading - 2022

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					4.2167	0.0000	4.2167	1.4417	0.0000	1.4417			0.0000			0.0000
Off-Road	1.7658	16.5485	59.5426	0.1127		0.2938	0.2938		0.2843	0.2843	0.0000	10,903.1829	10,903.1829	3.4068		10,988.3529
Total	**1.7658**	**16.5485**	**59.5426**	**0.1127**	**4.2167**	**0.2938**	**4.5105**	**1.4417**	**0.2843**	**1.7260**	**0.0000**	**10,903.1829**	**10,903.1829**	**3.4068**		**10,988.3529**

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	0.5079	15.7520	4.1174	0.0473	0.9824	0.0454	1.0279	0.2725	0.0434	0.3159		5,136.3546	5,136.3546	0.3657		5,145.4970
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1791	0.1178	1.3567	4.1500e-003	0.3460	3.5000e-003	0.3495	0.0938	3.2200e-003	0.0970		413.8278	413.8278	0.0114		414.1127
Total	**0.6870**	**15.8699**	**5.4741**	**0.0514**	**1.3285**	**0.0489**	**1.3774**	**0.3663**	**0.0467**	**0.4129**		**5,550.1824**	**5,550.1824**	**0.3771**		**5,559.6097**

3.4 Grading - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					11.3811	0.0000	11.3811	3.8913	0.0000	3.8913			0.0000			0.0000
Off-Road	6.0954	63.3195	51.2425	0.1127		2.6515	2.6515		2.4471	2.4471		10,902.5046	10,902.5046	3.4042		10,987.6104
Total	**6.0954**	**63.3195**	**51.2425**	**0.1127**	**11.3811**	**2.6515**	**14.0326**	**3.8913**	**2.4471**	**6.3384**		**10,902.5046**	**10,902.5046**	**3.4042**		**10,987.6104**

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	0.3334	10.3466	3.7036	0.0452	5.9328	0.0191	5.9520	1.4876	0.0183	1.5059		4,922.7388	4,922.7388	0.3386		4,931.2027
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1688	0.1066	1.2471	4.0000e-003	0.4471	3.4000e-003	0.4505	0.1186	3.1300e-003	0.1217		398.6882	398.6882	0.0103		398.9447
Total	**0.5022**	**10.4531**	**4.9507**	**0.0492**	**6.3799**	**0.0225**	**6.4025**	**1.6061**	**0.0214**	**1.6276**		**5,321.4271**	**5,321.4271**	**0.3488**		**5,330.1474**

3.4 Grading - 2023

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					4.2167	0.0000	4.2167	1.4417	0.0000	1.4417			0.0000			0.0000
Off-Road	1.7508	16.3447	59.5452	0.1127		0.2811	0.2811		0.2726	0.2726	0.0000	10,902.5046	10,902.5046	3.4042		10,987.6104
Total	**1.7508**	**16.3447**	**59.5452**	**0.1127**	**4.2167**	**0.2811**	**4.4978**	**1.4417**	**0.2726**	**1.7143**	**0.0000**	**10,902.5046**	**10,902.5046**	**3.4042**		**10,987.6104**

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	0.3334	10.3466	3.7036	0.0452	4.4596	0.0191	4.4787	1.1260	0.0183	1.1443		4,922.7388	4,922.7388	0.3386		4,931.2027
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1688	0.1066	1.2471	4.0000e-003	0.3460	3.4000e-003	0.3494	0.0938	3.1300e-003	0.0969		398.6882	398.6882	0.0103		398.9447
Total	**0.5022**	**10.4531**	**4.9507**	**0.0492**	**4.8057**	**0.0225**	**4.8282**	**1.2197**	**0.0214**	**1.2412**		**5,321.4271**	**5,321.4271**	**0.3488**		**5,330.1474**

3.5 Grading (Sheet Piling) - 2022

Unmitigated Construction On-Site

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

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	0.0134	8.8400e-003	0.1018	3.1000e-004	0.0335	2.6000e-004	0.0338	8.8900e-003	2.4000e-004	9.1300e-003		31.0371	31.0371	8.5000e-004		31.0585
Total	**0.0134**	**8.8400e-003**	**0.1018**	**3.1000e-004**	**0.0335**	**2.6000e-004**	**0.0338**	**8.8900e-003**	**2.4000e-004**	**9.1300e-003**		**31.0371**	**31.0371**	**8.5000e-004**		**31.0585**

3.5 Grading (Sheet Piling) - 2022

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**

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	0.0134	8.8400e-003	0.1018	3.1000e-004	0.0260	2.6000e-004	0.0262	7.0300e-003	2.4000e-004	7.2700e-003		31.0371	31.0371	8.5000e-004		31.0585
Total	**0.0134**	**8.8400e-003**	**0.1018**	**3.1000e-004**	**0.0260**	**2.6000e-004**	**0.0262**	**7.0300e-003**	**2.4000e-004**	**7.2700e-003**		**31.0371**	**31.0371**	**8.5000e-004**		**31.0585**

3.5 Grading (Sheet Piling) - 2023

Unmitigated Construction On-Site

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

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	0.0127	7.9900e-003	0.0935	3.0000e-004	0.0335	2.6000e-004	0.0338	8.8900e-003	2.3000e-004	9.1300e-003		29.9016	29.9016	7.7000e-004		29.9209
Total	**0.0127**	**7.9900e-003**	**0.0935**	**3.0000e-004**	**0.0335**	**2.6000e-004**	**0.0338**	**8.8900e-003**	**2.3000e-004**	**9.1300e-003**		**29.9016**	**29.9016**	**7.7000e-004**		**29.9209**

3.5 Grading (Sheet Piling) - 2023

Mitigated Construction On-Site

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

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	0.0127	7.9900e-003	0.0935	3.0000e-004	0.0260	2.6000e-004	0.0262	7.0300e-003	2.3000e-004	7.2700e-003		29.9016	29.9016	7.7000e-004		29.9209
Total	**0.0127**	**7.9900e-003**	**0.0935**	**3.0000e-004**	**0.0260**	**2.6000e-004**	**0.0262**	**7.0300e-003**	**2.3000e-004**	**7.2700e-003**		**29.9016**	**29.9016**	**7.7000e-004**		**29.9209**

3.6 Building Construction - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.9745	17.7165	19.1119	0.0316		0.9216	0.9216		0.8738	0.8738		2,998.8321	2,998.8321	0.6362		3,014.7369
Total	**1.9745**	**17.7165**	**19.1119**	**0.0316**		**0.9216**	**0.9216**		**0.8738**	**0.8738**		**2,998.8321**	**2,998.8321**	**0.6362**		**3,014.7369**

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	0.9107	27.9921	8.0794	0.0753	1.9463	0.0545	2.0008	0.5604	0.0521	0.6125		8,055.0965	8,055.0965	0.5062		8,067.7525
Worker	5.9160	3.8909	44.8052	0.1371	14.7657	0.1156	14.8813	3.9159	0.1065	4.0224		13,666.6625	13,666.6625	0.3763		13,676.0703
Total	**6.8266**	**31.8830**	**52.8846**	**0.2125**	**16.7120**	**0.1701**	**16.8820**	**4.4763**	**0.1586**	**4.6349**		**21,721.7590**	**21,721.7590**	**0.8826**		**21,743.8227**

3.6 Building Construction - 2022

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.8525	12.3878	20.9667	0.0316		0.1080	0.1080		0.1080	0.1080	0.0000	2,998.8321	2,998.8321	0.6362		3,014.7369
Total	**0.8525**	**12.3878**	**20.9667**	**0.0316**		**0.1080**	**0.1080**		**0.1080**	**0.1080**	**0.0000**	**2,998.8321**	**2,998.8321**	**0.6362**		**3,014.7369**

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	0.9107	27.9921	8.0794	0.0753	1.5858	0.0545	1.6403	0.4719	0.0521	0.5240		8,055.0965	8,055.0965	0.5062		8,067.7525
Worker	5.9160	3.8909	44.8052	0.1371	11.4281	0.1156	11.5437	3.0967	0.1065	3.2032		13,666.6625	13,666.6625	0.3763		13,676.0703
Total	**6.8266**	**31.8830**	**52.8846**	**0.2125**	**13.0139**	**0.1701**	**13.1839**	**3.5686**	**0.1586**	**3.7272**		**21,721.7590**	**21,721.7590**	**0.8826**		**21,743.8227**

3.6 Building Construction - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.8231	16.3231	18.9870	0.0316		0.7959	0.7959		0.7546	0.7546		2,999.7092	2,999.7092	0.6298		3,015.4528
Total	**1.8231**	**16.3231**	**18.9870**	**0.0316**		**0.7959**	**0.7959**		**0.7546**	**0.7546**		**2,999.7092**	**2,999.7092**	**0.6298**		**3,015.4528**

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	0.6766	21.2006	7.1793	0.0729	1.9463	0.0259	1.9722	0.5604	0.0247	0.5851		7,804.9358	7,804.9358	0.4457		7,816.0774
Worker	5.5735	3.5191	41.1844	0.1321	14.7657	0.1123	14.8780	3.9159	0.1034	4.0193		13,166.6788	13,166.6788	0.3388		13,175.1498
Total	**6.2500**	**24.7197**	**48.3637**	**0.2050**	**16.7120**	**0.1382**	**16.8502**	**4.4763**	**0.1281**	**4.6045**		**20,971.6146**	**20,971.6146**	**0.7845**		**20,991.2272**

3.6 Building Construction - 2023

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.8302	12.3454	20.9488	0.0316		0.0993	0.0993		0.0993	0.0993	0.0000	2,999.7092	2,999.7092	0.6298		3,015.4528
Total	**0.8302**	**12.3454**	**20.9488**	**0.0316**		**0.0993**	**0.0993**		**0.0993**	**0.0993**	**0.0000**	**2,999.7092**	**2,999.7092**	**0.6298**		**3,015.4528**

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	0.6766	21.2006	7.1793	0.0729	1.5858	0.0259	1.6117	0.4719	0.0247	0.4966		7,804.9358	7,804.9358	0.4457		7,816.0774
Worker	5.5735	3.5191	41.1844	0.1321	11.4281	0.1123	11.5404	3.0967	0.1034	3.2001		13,166.6788	13,166.6788	0.3388		13,175.1498
Total	**6.2500**	**24.7197**	**48.3637**	**0.2050**	**13.0139**	**0.1382**	**13.1521**	**3.5686**	**0.1281**	**3.6967**		**20,971.6146**	**20,971.6146**	**0.7845**		**20,991.2272**

3.6 Building Construction - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.7062	15.2545	18.9044	0.0316		0.6962	0.6962		0.6598	0.6598		3,000.1974	3,000.1974	0.6255		3,015.8341
Total	**1.7062**	**15.2545**	**18.9044**	**0.0316**		**0.6962**	**0.6962**		**0.6598**	**0.6598**		**3,000.1974**	**3,000.1974**	**0.6255**		**3,015.8341**

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	0.6599	21.1245	6.9616	0.0726	1.9464	0.0254	1.9718	0.5604	0.0243	0.5847		7,774.6654	7,774.6654	0.4389		7,785.6380
Worker	5.2888	3.2084	38.3411	0.1280	14.7657	0.1107	14.8763	3.9159	0.1019	4.0178		12,758.2679	12,758.2679	0.3105		12,766.0297
Total	**5.9487**	**24.3329**	**45.3027**	**0.2005**	**16.7121**	**0.1361**	**16.8482**	**4.4763**	**0.1262**	**4.6025**		**20,532.9332**	**20,532.9332**	**0.7494**		**20,551.6677**

3.6 Building Construction - 2024

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.8116	12.3056	20.9346	0.0316		0.0916	0.0916		0.0916	0.0916	0.0000	3,000.1974	3,000.1974	0.6255		3,015.8341
Total	**0.8116**	**12.3056**	**20.9346**	**0.0316**		**0.0916**	**0.0916**		**0.0916**	**0.0916**	**0.0000**	**3,000.1974**	**3,000.1974**	**0.6255**		**3,015.8341**

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	0.6599	21.1245	6.9616	0.0726	1.5859	0.0254	1.6113	0.4719	0.0243	0.4962		7,774.6654	7,774.6654	0.4389		7,785.6380
Worker	5.2888	3.2084	38.3411	0.1280	11.4281	0.1107	11.5388	3.0967	0.1019	3.1986		12,758.2679	12,758.2679	0.3105		12,766.0297
Total	**5.9487**	**24.3329**	**45.3027**	**0.2005**	**13.0140**	**0.1361**	**13.1501**	**3.5686**	**0.1262**	**3.6948**		**20,532.9332**	**20,532.9332**	**0.7494**		**20,551.6677**

3.6 Building Construction - 2025

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.5888	14.1717	18.8183	0.0317		0.5972	0.5972		0.5659	0.5659		3,000.9736	3,000.9736	0.6205		3,016.4862
Total	**1.5888**	**14.1717**	**18.8183**	**0.0317**		**0.5972**	**0.5972**		**0.5659**	**0.5659**		**3,000.9736**	**3,000.9736**	**0.6205**		**3,016.4862**

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	0.6430	20.9456	6.7839	0.0721	1.9464	0.0249	1.9714	0.5604	0.0238	0.5843		7,732.9772	7,732.9772	0.4323		7,743.7849
Worker	5.0379	2.9349	35.5757	0.1230	14.7657	0.1084	14.8741	3.9159	0.0998	4.0157		12,264.3865	12,264.3865	0.2830		12,271.4610
Total	**5.6809**	**23.8806**	**42.3595**	**0.1951**	**16.7121**	**0.1333**	**16.8454**	**4.4764**	**0.1236**	**4.6000**		**19,997.3637**	**19,997.3637**	**0.7153**		**20,015.2459**

3.6 Building Construction - 2025

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.7955	12.2669	20.9226	0.0317		0.0850	0.0850		0.0850	0.0850	0.0000	3,000.9736	3,000.9736	0.6205		3,016.4862
Total	**0.7955**	**12.2669**	**20.9226**	**0.0317**		**0.0850**	**0.0850**		**0.0850**	**0.0850**	**0.0000**	**3,000.9736**	**3,000.9736**	**0.6205**		**3,016.4862**

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	0.6430	20.9456	6.7839	0.0721	1.5859	0.0249	1.6108	0.4719	0.0238	0.4958		7,732.9772	7,732.9772	0.4323		7,743.7849
Worker	5.0379	2.9349	35.5757	0.1230	11.4281	0.1084	11.5365	3.0967	0.0998	3.1965		12,264.3865	12,264.3865	0.2830		12,271.4610
Total	**5.6809**	**23.8806**	**42.3595**	**0.1951**	**13.0140**	**0.1333**	**13.1473**	**3.5686**	**0.1236**	**3.6922**		**19,997.3637**	**19,997.3637**	**0.7153**		**20,015.2459**

3.6 Building Construction - 2026

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.5888	14.1717	18.8183	0.0317		0.5972	0.5972		0.5659	0.5659		3,000.9736	3,000.9736	0.6205		3,016.4862
Total	**1.5888**	**14.1717**	**18.8183**	**0.0317**		**0.5972**	**0.5972**		**0.5659**	**0.5659**		**3,000.9736**	**3,000.9736**	**0.6205**		**3,016.4862**

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	0.6283	20.7510	6.6467	0.0717	1.9465	0.0244	1.9708	0.5604	0.0233	0.5837		7,692.9826	7,692.9826	0.4258		7,703.6269
Worker	4.8235	2.7035	33.2356	0.1187	14.7657	0.1047	14.8704	3.9159	0.0964	4.0123		11,838.4456	11,838.4456	0.2593		11,844.9292
Total	**5.4518**	**23.4545**	**39.8823**	**0.1904**	**16.7122**	**0.1291**	**16.8412**	**4.4764**	**0.1197**	**4.5960**		**19,531.4282**	**19,531.4282**	**0.6851**		**19,548.5561**

3.6 Building Construction - 2026

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.7955	12.2669	20.9226	0.0317		0.0850	0.0850		0.0850	0.0850	0.0000	3,000.9736	3,000.9736	0.6205		3,016.4862
Total	**0.7955**	**12.2669**	**20.9226**	**0.0317**		**0.0850**	**0.0850**		**0.0850**	**0.0850**	**0.0000**	**3,000.9736**	**3,000.9736**	**0.6205**		**3,016.4862**

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	0.6283	20.7510	6.6467	0.0717	1.5860	0.0244	1.6103	0.4720	0.0233	0.4952		7,692.9826	7,692.9826	0.4258		7,703.6269
Worker	4.8235	2.7035	33.2356	0.1187	11.4281	0.1047	11.5328	3.0967	0.0964	3.1931		11,838.4456	11,838.4456	0.2593		11,844.9292
Total	**5.4518**	**23.4545**	**39.8823**	**0.1904**	**13.0140**	**0.1291**	**13.1431**	**3.5687**	**0.1197**	**3.6883**		**19,531.4282**	**19,531.4282**	**0.6851**		**19,548.5561**

3.6 Building Construction - 2027

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.5888	14.1717	18.8183	0.0317		0.5972	0.5972		0.5659	0.5659		3,000.9736	3,000.9736	0.6205		3,016.4862
Total	**1.5888**	**14.1717**	**18.8183**	**0.0317**		**0.5972**	**0.5972**		**0.5659**	**0.5659**		**3,000.9736**	**3,000.9736**	**0.6205**		**3,016.4862**

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	0.6160	20.5632	6.5365	0.0713	1.9465	0.0238	1.9704	0.5605	0.0228	0.5832		7,657.0105	7,657.0105	0.4193		7,667.4921
Worker	4.6113	2.4938	31.1388	0.1149	14.7657	0.0990	14.8646	3.9159	0.0911	4.0070		11,461.0586	11,461.0586	0.2379		11,467.0068
Total	**5.2272**	**23.0570**	**37.6753**	**0.1862**	**16.7122**	**0.1228**	**16.8350**	**4.4764**	**0.1138**	**4.5902**		**19,118.0690**	**19,118.0690**	**0.6572**		**19,134.4989**

3.6 Building Construction - 2027

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.7955	12.2669	20.9226	0.0317		0.0850	0.0850		0.0850	0.0850	0.0000	3,000.9736	3,000.9736	0.6205		3,016.4862
Total	**0.7955**	**12.2669**	**20.9226**	**0.0317**		**0.0850**	**0.0850**		**0.0850**	**0.0850**	**0.0000**	**3,000.9736**	**3,000.9736**	**0.6205**		**3,016.4862**

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	0.6160	20.5632	6.5365	0.0713	1.5860	0.0238	1.6098	0.4720	0.0228	0.4948		7,657.0105	7,657.0105	0.4193		7,667.4921
Worker	4.6113	2.4938	31.1388	0.1149	11.4281	0.0990	11.5270	3.0967	0.0911	3.1878		11,461.0586	11,461.0586	0.2379		11,467.0068
Total	**5.2272**	**23.0570**	**37.6753**	**0.1862**	**13.0141**	**0.1228**	**13.1369**	**3.5687**	**0.1138**	**3.6825**		**19,118.0690**	**19,118.0690**	**0.6572**		**19,134.4989**

3.7 Building Construction (Pile Rig Use) - 2027

Unmitigated Construction On-Site

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

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	0.6160	20.5632	6.5365	0.0713	1.9465	0.0238	1.9704	0.5605	0.0228	0.5832		7,657.0105	7,657.0105	0.4193		7,667.4921
Worker	4.6113	2.4938	31.1388	0.1149	14.7657	0.0990	14.8646	3.9159	0.0911	4.0070		11,461.0586	11,461.0586	0.2379		11,467.0068
Total	**5.2272**	**23.0570**	**37.6753**	**0.1862**	**16.7122**	**0.1228**	**16.8350**	**4.4764**	**0.1138**	**4.5902**		**19,118.0690**	**19,118.0690**	**0.6572**		**19,134.4989**

3.7 Building Construction (Pile Rig Use) - 2027

Mitigated Construction On-Site

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

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.6160	20.5632	6.5365	0.0713	1.5860	0.0238	1.6098	0.4720	0.0228	0.4948		7,657.0105	7,657.0105	0.4193		7,667.4921
Worker	4.6113	2.4938	31.1388	0.1149	11.4281	0.0990	11.5270	3.0967	0.0911	3.1878		11,461.0586	11,461.0586	0.2379		11,467.0068
Total	**5.2272**	**23.0570**	**37.6753**	**0.1862**	**13.0141**	**0.1228**	**13.1369**	**3.5687**	**0.1138**	**3.6825**		**19,118.0690**	**19,118.0690**	**0.6572**		**19,134.4989**

3.8 Paving - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.1028	11.1249	14.5805	0.0228		0.5679	0.5679		0.5225	0.5225		2,207.6603	2,207.6603	0.7140		2,225.5104
Paving	0.5168					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**1.6196**	**11.1249**	**14.5805**	**0.0228**		**0.5679**	**0.5679**		**0.5225**	**0.5225**		**2,207.6603**	**2,207.6603**	**0.7140**		**2,225.5104**

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	0.0672	0.0442	0.5088	1.5600e-003	0.1677	1.3100e-003	0.1690	0.0445	1.2100e-003	0.0457		155.1854	155.1854	4.2700e-003		155.2922
Total	**0.0672**	**0.0442**	**0.5088**	**1.5600e-003**	**0.1677**	**1.3100e-003**	**0.1690**	**0.0445**	**1.2100e-003**	**0.0457**		**155.1854**	**155.1854**	**4.2700e-003**		**155.2922**

3.8 Paving - 2022

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.3341	10.0395	17.2957	0.0228		0.0374	0.0374		0.0374	0.0374	0.0000	2,207.6603	2,207.6603	0.7140		2,225.5104
Paving	0.5168					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**0.8509**	**10.0395**	**17.2957**	**0.0228**		**0.0374**	**0.0374**		**0.0374**	**0.0374**	**0.0000**	**2,207.6603**	**2,207.6603**	**0.7140**		**2,225.5104**

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	0.0672	0.0442	0.5088	1.5600e-003	0.1298	1.3100e-003	0.1311	0.0352	1.2100e-003	0.0364		155.1854	155.1854	4.2700e-003		155.2922
Total	**0.0672**	**0.0442**	**0.5088**	**1.5600e-003**	**0.1298**	**1.3100e-003**	**0.1311**	**0.0352**	**1.2100e-003**	**0.0364**		**155.1854**	**155.1854**	**4.2700e-003**		**155.2922**

3.8 Paving - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.0327	10.1917	14.5842	0.0228		0.5102	0.5102		0.4694	0.4694		2,207.5841	2,207.5841	0.7140		2,225.4336
Paving	0.5168					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**1.5495**	**10.1917**	**14.5842**	**0.0228**		**0.5102**	**0.5102**		**0.4694**	**0.4694**		**2,207.5841**	**2,207.5841**	**0.7140**		**2,225.4336**

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	0.0633	0.0400	0.4677	1.5000e-003	0.1677	1.2800e-003	0.1689	0.0445	1.1700e-003	0.0456		149.5081	149.5081	3.8500e-003		149.6043
Total	**0.0633**	**0.0400**	**0.4677**	**1.5000e-003**	**0.1677**	**1.2800e-003**	**0.1689**	**0.0445**	**1.1700e-003**	**0.0456**		**149.5081**	**149.5081**	**3.8500e-003**		**149.6043**

3.8 Paving - 2023

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.3341	10.0395	17.2957	0.0228		0.0374	0.0374		0.0374	0.0374	0.0000	2,207.5841	2,207.5841	0.7140		2,225.4336
Paving	0.5168					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**0.8509**	**10.0395**	**17.2957**	**0.0228**		**0.0374**	**0.0374**		**0.0374**	**0.0374**	**0.0000**	**2,207.5841**	**2,207.5841**	**0.7140**		**2,225.4336**

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	0.0633	0.0400	0.4677	1.5000e-003	0.1298	1.2800e-003	0.1310	0.0352	1.1700e-003	0.0363		149.5081	149.5081	3.8500e-003		149.6043
Total	**0.0633**	**0.0400**	**0.4677**	**1.5000e-003**	**0.1298**	**1.2800e-003**	**0.1310**	**0.0352**	**1.1700e-003**	**0.0363**		**149.5081**	**149.5081**	**3.8500e-003**		**149.6043**

3.9 Paving (Crane Use) - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.3514	3.8155	1.8344	5.7700e-003		0.1593	0.1593		0.1466	0.1466		558.8192	558.8192	0.1807		563.3376
Paving	4.1344					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**4.4858**	**3.8155**	**1.8344**	**5.7700e-003**		**0.1593**	**0.1593**		**0.1466**	**0.1466**		**558.8192**	**558.8192**	**0.1807**		**563.3376**

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	0.0127	7.9900e-003	0.0935	3.0000e-004	0.0335	2.6000e-004	0.0338	8.8900e-003	2.3000e-004	9.1300e-003		29.9016	29.9016	7.7000e-004		29.9209
Total	**0.0127**	**7.9900e-003**	**0.0935**	**3.0000e-004**	**0.0335**	**2.6000e-004**	**0.0338**	**8.8900e-003**	**2.3000e-004**	**9.1300e-003**		**29.9016**	**29.9016**	**7.7000e-004**		**29.9209**

3.9 Paving (Crane Use) - 2023

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.0945	1.5241	3.0719	5.7700e-003		9.4500e-003	9.4500e-003		9.4500e-003	9.4500e-003	0.0000	558.8192	558.8192	0.1807		563.3376
Paving	4.1344					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**4.2289**	**1.5241**	**3.0719**	**5.7700e-003**		**9.4500e-003**	**9.4500e-003**		**9.4500e-003**	**9.4500e-003**	**0.0000**	**558.8192**	**558.8192**	**0.1807**		**563.3376**

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	0.0127	7.9900e-003	0.0935	3.0000e-004	0.0260	2.6000e-004	0.0262	7.0300e-003	2.3000e-004	7.2700e-003		29.9016	29.9016	7.7000e-004		29.9209
Total	**0.0127**	**7.9900e-003**	**0.0935**	**3.0000e-004**	**0.0260**	**2.6000e-004**	**0.0262**	**7.0300e-003**	**2.3000e-004**	**7.2700e-003**		**29.9016**	**29.9016**	**7.7000e-004**		**29.9209**

3.10 Architectural Coating - 2025

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	31.9236					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.3417	2.2910	3.6183	5.9400e-003		0.1030	0.1030		0.1030	0.1030		562.8961	562.8961	0.0307		563.6637
Total	**32.2653**	**2.2910**	**3.6183**	**5.9400e-003**		**0.1030**	**0.1030**		**0.1030**	**0.1030**		**562.8961**	**562.8961**	**0.0307**		**563.6637**

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	1.0068	0.5865	7.1098	0.0246	2.9509	0.0217	2.9726	0.7826	0.0199	0.8025		2,451.0205	2,451.0205	0.0566		2,452.4343
Total	**1.0068**	**0.5865**	**7.1098**	**0.0246**	**2.9509**	**0.0217**	**2.9726**	**0.7826**	**0.0199**	**0.8025**		**2,451.0205**	**2,451.0205**	**0.0566**		**2,452.4343**

3.10 Architectural Coating - 2025

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	31.9236					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1090	2.1197	3.6648	5.9400e-003		7.9200e-003	7.9200e-003		7.9200e-003	7.9200e-003	0.0000	562.8961	562.8961	0.0307		563.6637
Total	**32.0325**	**2.1197**	**3.6648**	**5.9400e-003**		**7.9200e-003**	**7.9200e-003**		**7.9200e-003**	**7.9200e-003**	**0.0000**	**562.8961**	**562.8961**	**0.0307**		**563.6637**

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	1.0068	0.5865	7.1098	0.0246	2.2839	0.0217	2.3056	0.6189	0.0199	0.6388		2,451.0205	2,451.0205	0.0566		2,452.4343
Total	**1.0068**	**0.5865**	**7.1098**	**0.0246**	**2.2839**	**0.0217**	**2.3056**	**0.6189**	**0.0199**	**0.6388**		**2,451.0205**	**2,451.0205**	**0.0566**		**2,452.4343**

3.10 Architectural Coating - 2026

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	31.9236					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.3417	2.2910	3.6183	5.9400e-003		0.1030	0.1030		0.1030	0.1030		562.8961	562.8961	0.0307		563.6637
Total	**32.2653**	**2.2910**	**3.6183**	**5.9400e-003**		**0.1030**	**0.1030**		**0.1030**	**0.1030**		**562.8961**	**562.8961**	**0.0307**		**563.6637**

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	0.9640	0.5403	6.6421	0.0237	2.9509	0.0209	2.9718	0.7826	0.0193	0.8019		2,365.8968	2,365.8968	0.0518		2,367.1925
Total	**0.9640**	**0.5403**	**6.6421**	**0.0237**	**2.9509**	**0.0209**	**2.9718**	**0.7826**	**0.0193**	**0.8019**		**2,365.8968**	**2,365.8968**	**0.0518**		**2,367.1925**

3.10 Architectural Coating - 2026

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	31.9236					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1090	2.1197	3.6648	5.9400e-003		7.9200e-003	7.9200e-003		7.9200e-003	7.9200e-003	0.0000	562.8961	562.8961	0.0307		563.6637
Total	**32.0325**	**2.1197**	**3.6648**	**5.9400e-003**		**7.9200e-003**	**7.9200e-003**		**7.9200e-003**	**7.9200e-003**	**0.0000**	**562.8961**	**562.8961**	**0.0307**		**563.6637**

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	0.9640	0.5403	6.6421	0.0237	2.2839	0.0209	2.3048	0.6189	0.0193	0.6381		2,365.8968	2,365.8968	0.0518		2,367.1925
Total	**0.9640**	**0.5403**	**6.6421**	**0.0237**	**2.2839**	**0.0209**	**2.3048**	**0.6189**	**0.0193**	**0.6381**		**2,365.8968**	**2,365.8968**	**0.0518**		**2,367.1925**

3.10 Architectural Coating - 2027

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	31.9236					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.3417	2.2910	3.6183	5.9400e-003		0.1030	0.1030		0.1030	0.1030		562.8961	562.8961	0.0307		563.6637
Total	**32.2653**	**2.2910**	**3.6183**	**5.9400e-003**		**0.1030**	**0.1030**		**0.1030**	**0.1030**		**562.8961**	**562.8961**	**0.0307**		**563.6637**

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	0.9216	0.4984	6.2230	0.0230	2.9509	0.0198	2.9707	0.7826	0.0182	0.8008		2,290.4765	2,290.4765	0.0476		2,291.6653
Total	**0.9216**	**0.4984**	**6.2230**	**0.0230**	**2.9509**	**0.0198**	**2.9707**	**0.7826**	**0.0182**	**0.8008**		**2,290.4765**	**2,290.4765**	**0.0476**		**2,291.6653**

3.10 Architectural Coating - 2027

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	31.9236					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1090	2.1197	3.6648	5.9400e-003		7.9200e-003	7.9200e-003		7.9200e-003	7.9200e-003	0.0000	562.8961	562.8961	0.0307		563.6637
Total	**32.0325**	**2.1197**	**3.6648**	**5.9400e-003**		**7.9200e-003**	**7.9200e-003**		**7.9200e-003**	**7.9200e-003**	**0.0000**	**562.8961**	**562.8961**	**0.0307**		**563.6637**

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	0.9216	0.4984	6.2230	0.0230	2.2839	0.0198	2.3037	0.6189	0.0182	0.6371		2,290.4765	2,290.4765	0.0476		2,291.6653
Total	**0.9216**	**0.4984**	**6.2230**	**0.0230**	**2.2839**	**0.0198**	**2.3037**	**0.6189**	**0.0182**	**0.6371**		**2,290.4765**	**2,290.4765**	**0.0476**		**2,291.6653**

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	13.0119	28.0677	131.9261	0.4185	45.8543	0.3245	46.1787	12.2481	0.3030	12.5512		43,407.5857	43,407.5857	2.9240		43,480.6856
Unmitigated	13.0119	28.0677	131.9261	0.4185	45.8543	0.3245	46.1787	12.2481	0.3030	12.5512		43,407.5857	43,407.5857	2.9240		43,480.6856

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Mid Rise	4,142.34	4,142.34	4142.34	14,154,998	14,154,998
City Park	0.00	0.00	0.00		
Condo/Townhouse High Rise	1,889.66	1,889.66	1889.66	6,457,262	6,457,262
Enclosed Parking with Elevator	0.00	0.00	0.00		
Health Club	0.00	0.00	0.00		
Other Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Quality Restaurant	694.87	694.87	694.87	1,011,994	1,011,994
Recreational Swimming Pool	0.00	0.00	0.00		
Total	6,726.87	6,726.87	6,726.87	21,624,254	21,624,254

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 Mid Rise	14.70	5.90	8.70	40.20	19.20	40.60	86	11	3
City Park	16.60	8.40	6.90	33.00	48.00	19.00	66	28	6
Condo/Townhouse High Rise	14.70	5.90	8.70	40.20	19.20	40.60	86	11	3
Enclosed Parking with Elevator	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Health Club	16.60	8.40	6.90	16.90	64.10	19.00	52	39	9
Other Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Parking Lot	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Quality Restaurant	16.60	8.40	6.90	12.00	69.00	19.00	39	18	43
Recreational Swimming Pool	16.60	8.40	6.90	33.00	48.00	19.00	52	39	9

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Mid Rise	0.543646	0.044284	0.209381	0.116714	0.014227	0.006316	0.021040	0.033117	0.002601	0.001862	0.005277	0.000709	0.000827
City Park	0.543646	0.044284	0.209381	0.116714	0.014227	0.006316	0.021040	0.033117	0.002601	0.001862	0.005277	0.000709	0.000827
Condo/Townhouse High Rise	0.543646	0.044284	0.209381	0.116714	0.014227	0.006316	0.021040	0.033117	0.002601	0.001862	0.005277	0.000709	0.000827
Enclosed Parking with Elevator	0.543646	0.044284	0.209381	0.116714	0.014227	0.006316	0.021040	0.033117	0.002601	0.001862	0.005277	0.000709	0.000827
Health Club	0.543646	0.044284	0.209381	0.116714	0.014227	0.006316	0.021040	0.033117	0.002601	0.001862	0.005277	0.000709	0.000827
Other Asphalt Surfaces	0.543646	0.044284	0.209381	0.116714	0.014227	0.006316	0.021040	0.033117	0.002601	0.001862	0.005277	0.000709	0.000827
Parking Lot	0.543646	0.044284	0.209381	0.116714	0.014227	0.006316	0.021040	0.033117	0.002601	0.001862	0.005277	0.000709	0.000827
Quality Restaurant	0.543646	0.044284	0.209381	0.116714	0.014227	0.006316	0.021040	0.033117	0.002601	0.001862	0.005277	0.000709	0.000827
Recreational Swimming Pool	0.543646	0.044284	0.209381	0.116714	0.014227	0.006316	0.021040	0.033117	0.002601	0.001862	0.005277	0.000709	0.000827

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Exceed Title 24

Imperial Avalon - Los Angeles-South Coast County, Winter

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.3165	2.7429	1.4292	0.0173		0.2187	0.2187		0.2187	0.2187		3,453.2105	3,453.2105	0.0662	0.0633	3,473.7312
NaturalGas Unmitigated	0.4108	3.5540	1.8154	0.0224		0.2838	0.2838		0.2838	0.2838		4,481.0009	4,481.0009	0.0859	0.0822	4,507.6293

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 Mid Rise	21034.8	0.2269	1.9385	0.8249	0.0124		0.1567	0.1567		0.1567	0.1567		2,474.6853	2,474.6853	0.0474	0.0454	2,489.3911
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Condo/Townhouse High Rise	9595.72	0.1035	0.8843	0.3763	5.6400e-003		0.0715	0.0715		0.0715	0.0715		1,128.9080	1,128.9080	0.0216	0.0207	1,135.6166
Enclosed Parking with Elevator	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
Health Club	913.232	9.8500e-003	0.0895	0.0752	5.4000e-004		6.8000e-003	6.8000e-003		6.8000e-003	6.8000e-003		107.4390	107.4390	2.0600e-003	1.9700e-003	108.0775
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
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Quality Restaurant	6544.73	0.0706	0.6416	0.5390	3.8500e-003		0.0488	0.0488		0.0488	0.0488		769.9686	769.9686	0.0148	0.0141	774.5441
Recreational Swimming Pool	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		**0.4108**	**3.5540**	**1.8154**	**0.0224**		**0.2838**	**0.2838**		**0.2838**	**0.2838**		**4,481.0009**	**4,481.0009**	**0.0859**	**0.0822**	**4,507.6293**

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 Mid Rise	15.7298	0.1696	1.4496	0.6169	9.2500e-003		0.1172	0.1172		0.1172	0.1172		1,850.5600	1,850.5600	0.0355	0.0339	1,861.5569
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Condo/Townhouse High Rise	7.17564	0.0774	0.6613	0.2814	4.2200e-003		0.0535	0.0535		0.0535	0.0535		844.1930	844.1930	0.0162	0.0155	849.2097
Enclosed Parking with Elevator	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
Health Club	0.548217	5.9100e-003	0.0538	0.0452	3.2000e-004		4.0800e-003	4.0800e-003		4.0800e-003	4.0800e-003		64.4961	64.4961	1.2400e-003	1.1800e-003	64.8793
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
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Quality Restaurant	5.89867	0.0636	0.5783	0.4858	3.4700e-003		0.0440	0.0440		0.0440	0.0440		693.9614	693.9614	0.0133	0.0127	698.0852
Recreational Swimming Pool	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		**0.3165**	**2.7429**	**1.4292**	**0.0173**		**0.2187**	**0.2187**		**0.2187**	**0.2187**		**3,453.2105**	**3,453.2105**	**0.0662**	**0.0633**	**3,473.7312**

6.0 Area Detail

6.1 Mitigation Measures Area

Use only Natural Gas Hearths

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	38.4733	19.2625	107.8486	0.1209		2.0195	2.0195		2.0195	2.0195	0.0000	23,298.8977	23,298.8977	0.6166	0.4238	23,440.6152
Unmitigated	354.2038	26.3208	717.0158	1.5790		93.2144	93.2144		93.2144	93.2144	11,362.0720	22,014.5448	33,376.6168	34.0574	0.7712	34,457.8616

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	2.2156					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	31.1217					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	317.8497	25.1677	616.8734	1.5737		92.6590	92.6590		92.6590	92.6590	11,362.0720	21,834.0000	33,196.0720	33.8839	0.7712	34,272.9801
Landscaping	3.0169	1.1531	100.1425	5.3000e-003		0.5553	0.5553		0.5553	0.5553		180.5448	180.5448	0.1735		184.8815
Total	**354.2038**	**26.3208**	**717.0158**	**1.5790**		**93.2144**	**93.2144**		**93.2144**	**93.2144**	**11,362.0720**	**22,014.5448**	**33,376.6168**	**34.0574**	**0.7712**	**34,457.8616**

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	2.2156					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	31.1217					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	2.1192	18.1094	7.7061	0.1156		1.4642	1.4642		1.4642	1.4642	0.0000	23,118.3529	23,118.3529	0.4431	0.4238	23,255.7338
Landscaping	3.0169	1.1531	100.1425	5.3000e-003		0.5553	0.5553		0.5553	0.5553		180.5448	180.5448	0.1735		184.8815
Total	**38.4733**	**19.2625**	**107.8486**	**0.1209**		**2.0195**	**2.0195**		**2.0195**	**2.0195**	**0.0000**	**23,298.8977**	**23,298.8977**	**0.6166**	**0.4238**	**23,440.6152**

7.0 Water Detail

7.1 Mitigation Measures Water

Install Low Flow Bathroom Faucet

Install Low Flow Kitchen Faucet

Install Low Flow Toilet

Install Low Flow Shower

8.0 Waste Detail

8.1 Mitigation Measures Waste

Institute Recycling and Composting Services

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

Imperial Avalon

Los Angeles-South Coast County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Enclosed Parking with Elevator	1,208.00	Space	10.87	483,200.00	0
Other Asphalt Surfaces	333.72	1000sqft	7.66	333,724.00	0
Parking Lot	26.00	Space	0.23	10,400.00	0
City Park	4.77	Acre	4.77	207,781.20	0
Health Club	18.42	1000sqft	0.42	18,416.00	0
Quality Restaurant	10.35	1000sqft	0.24	10,352.00	0
Recreational Swimming Pool	1.70	1000sqft	0.04	1,700.00	0
Apartments Mid Rise	833.00	Dwelling Unit	21.92	902,694.00	2382
Condo/Townhouse High Rise	380.00	Dwelling Unit	5.94	625,000.00	1087

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	33
Climate Zone	11			**Operational Year**	2027
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	534	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - CO2 Intensity Factor Source: Southern California Edison, 2019 Sustainability Report.

Land Use - See CalEEMod Input table notes.
Construction Phase - Per construction questionnaire.

Off-road Equipment - Per construction questionnaire.

Off-road Equipment - Per construction questionnaire.

Off-road Equipment - Per construction questionnaire.

Off-road Equipment - Per construction questionnaire.

Off-road Equipment -

Trips and VMT -

Demolition -

Grading -

Vehicle Trips - Per traffic study.

Vehicle Emission Factors - EMFAC 2017

Vehicle Emission Factors - EMFAC 2017

Vehicle Emission Factors - EMFAC 2017

Energy Use -

Water And Wastewater -

Solid Waste -

Construction Off-road Equipment Mitigation - Per SCAQMD standards and regulations. All off-road diesel-powered construction equipment greater than 50 horsepower shall meet Tier 4 emission standards per PDF.

Area Mitigation - SCAQMD Rule 445 prohibits the installation of any open or enclosed permanently installed wood burning device.

Energy Mitigation - % Improvement based on efficiency of 2019 Title 24 Standards compared to 2016 Title 24 Standards.

Water Mitigation -

Waste Mitigation -

Off-road Equipment - Per construction questionnaire.

Off-road Equipment - "Other Construction Equipment" = Vibratory Hammer Pile Driver

Off-road Equipment - "Other Construction Equipment" = Vibratory Hammer Pile Driver

Off-road Equipment - Per construction questionnaire.

Imperial Avalon - Los Angeles-South Coast County, Summer

Architectural Coating -
Area Coating -

Table Name	Column Name	Default Value	New Value
tblAreaCoating	Area_Residential_Exterior	1031193	818775
tblAreaCoating	Area_Residential_Interior	3093580	2456325
tblConstDustMitigation	CleanPavedRoadPercentReduction	0	26
tblConstDustMitigation	WaterUnpavedRoadMoistureContent	0	12
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	7.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim

tblConstEquipMitigation	Tier	No Change	Tier 4 Final
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tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstructionPhase	NumDays	70.00	20.00
tblConstructionPhase	NumDays	110.00	240.00
tblConstructionPhase	NumDays	1,110.00	1,180.00
tblConstructionPhase	NumDays	75.00	40.00
tblConstructionPhase	NumDays	75.00	315.00
tblConstructionPhase	NumDays	70.00	10.00
tblConstructionPhase	NumDays	110.00	60.00
tblConstructionPhase	NumDays	1,110.00	2.00
tblConstructionPhase	NumDays	75.00	5.00
tblConstructionPhase	PhaseEndDate	5/27/2022	3/18/2022
tblConstructionPhase	PhaseEndDate	2/3/2023	2/17/2023
tblConstructionPhase	PhaseEndDate	10/8/2027	2/12/2027
tblConstructionPhase	PhaseEndDate	4/23/2032	2/17/2023
tblConstructionPhase	PhaseEndDate	11/19/2032	2/12/2027

tblConstructionPhase	PhaseEndDate	9/2/2022	3/18/2022
tblConstructionPhase	PhaseEndDate	7/7/2023	2/17/2023
tblConstructionPhase	PhaseEndDate	1/9/2032	2/12/2027
tblConstructionPhase	PhaseEndDate	8/6/2032	2/17/2023
tblConstructionPhase	PhaseStartDate	9/3/2022	3/21/2022
tblConstructionPhase	PhaseStartDate	7/8/2023	8/8/2022
tblConstructionPhase	PhaseStartDate	1/10/2032	12/26/2022
tblConstructionPhase	PhaseStartDate	8/7/2032	12/1/2025
tblConstructionPhase	PhaseStartDate	5/28/2022	3/7/2022
tblConstructionPhase	PhaseStartDate	2/4/2023	11/26/2022
tblConstructionPhase	PhaseStartDate	10/9/2027	2/11/2027
tblConstructionPhase	PhaseStartDate	4/24/2032	2/13/2023
tblGrading	MaterialImported	0.00	120,000.00
tblLandUse	LandUseSquareFeet	333,720.00	333,724.00
tblLandUse	LandUseSquareFeet	18,420.00	18,416.00
tblLandUse	LandUseSquareFeet	10,350.00	10,352.00
tblLandUse	LandUseSquareFeet	833,000.00	902,694.00
tblLandUse	LandUseSquareFeet	380,000.00	625,000.00
tblOffRoadEquipment	HorsePower	172.00	630.00
tblOffRoadEquipment	HorsePower	172.00	630.00
tblOffRoadEquipment	LoadFactor	0.42	0.50
tblOffRoadEquipment	LoadFactor	0.42	0.50
tblOffRoadEquipment	OffRoadEquipmentType		Crushing/Proc. Equipment
tblOffRoadEquipment	OffRoadEquipmentType		Plate Compactors
tblOffRoadEquipment	OffRoadEquipmentType		Other Construction Equipment
tblOffRoadEquipment	OffRoadEquipmentType		Other Construction Equipment
tblOffRoadEquipment	OffRoadEquipmentType		Cranes

tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblProjectCharacteristics	CO2IntensityFactor	702.44	534
tblVehicleEF	HHD	0.42	0.03
tblVehicleEF	HHD	0.10	0.08
tblVehicleEF	HHD	0.06	0.00
tblVehicleEF	HHD	1.53	6.77

tblVehicleEF	HHD	1.10	0.49
tblVehicleEF	HHD	3.38	7.9310e-003
tblVehicleEF	HHD	4,274.90	1,064.03
tblVehicleEF	HHD	1,546.51	1,297.06
tblVehicleEF	HHD	10.87	0.07
tblVehicleEF	HHD	13.18	5.66
tblVehicleEF	HHD	1.99	2.63
tblVehicleEF	HHD	19.41	2.34
tblVehicleEF	HHD	6.3460e-003	2.6920e-003
tblVehicleEF	HHD	0.06	0.06
tblVehicleEF	HHD	0.04	0.04
tblVehicleEF	HHD	6.0710e-003	0.02
tblVehicleEF	HHD	1.0500e-004	1.0000e-006
tblVehicleEF	HHD	6.0720e-003	2.5750e-003
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	8.8470e-003	8.9010e-003
tblVehicleEF	HHD	5.8080e-003	0.02
tblVehicleEF	HHD	9.6000e-005	1.0000e-006
tblVehicleEF	HHD	9.8000e-005	3.0000e-006
tblVehicleEF	HHD	4.1290e-003	1.1700e-004
tblVehicleEF	HHD	0.39	0.45
tblVehicleEF	HHD	7.7000e-005	2.0000e-006
tblVehicleEF	HHD	0.09	0.02
tblVehicleEF	HHD	3.4900e-004	5.8600e-004
tblVehicleEF	HHD	0.06	2.0000e-006
tblVehicleEF	HHD	0.04	9.8690e-003
tblVehicleEF	HHD	0.01	0.01

tblVehicleEF	HHD	1.6400e-004	1.0000e-006
tblVehicleEF	HHD	9.8000e-005	3.0000e-006
tblVehicleEF	HHD	4.1290e-003	1.1700e-004
tblVehicleEF	HHD	0.46	0.52
tblVehicleEF	HHD	7.7000e-005	2.0000e-006
tblVehicleEF	HHD	0.20	0.11
tblVehicleEF	HHD	3.4900e-004	5.8600e-004
tblVehicleEF	HHD	0.07	3.0000e-006
tblVehicleEF	HHD	0.40	0.03
tblVehicleEF	HHD	0.10	0.08
tblVehicleEF	HHD	0.05	0.00
tblVehicleEF	HHD	1.11	6.68
tblVehicleEF	HHD	1.11	0.49
tblVehicleEF	HHD	3.20	7.5300e-003
tblVehicleEF	HHD	4,528.88	1,051.40
tblVehicleEF	HHD	1,546.51	1,297.06
tblVehicleEF	HHD	10.87	0.07
tblVehicleEF	HHD	13.60	5.40
tblVehicleEF	HHD	1.88	2.49
tblVehicleEF	HHD	19.40	2.34
tblVehicleEF	HHD	5.3500e-003	2.3580e-003
tblVehicleEF	HHD	0.06	0.06
tblVehicleEF	HHD	0.04	0.04
tblVehicleEF	HHD	6.0710e-003	0.02
tblVehicleEF	HHD	6.0710e-003	0.02
tblVehicleEF	HHD	1.0500e-004	1.0000e-006
tblVehicleEF	HHD	5.1190e-003	2.2560e-003

tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	8.8470e-003	8.9010e-003
tblVehicleEF	HHD	5.8080e-003	0.02
tblVehicleEF	HHD	9.6000e-005	1.0000e-006
tblVehicleEF	HHD	1.4800e-004	5.0000e-006
tblVehicleEF	HHD	4.2300e-003	1.1900e-004
tblVehicleEF	HHD	0.36	0.48
tblVehicleEF	HHD	1.0700e-004	3.0000e-006
tblVehicleEF	HHD	0.09	0.02
tblVehicleEF	HHD	3.3700e-004	5.7200e-004
tblVehicleEF	HHD	0.06	2.0000e-006
tblVehicleEF	HHD	0.04	9.7510e-003
tblVehicleEF	HHD	0.01	0.01
tblVehicleEF	HHD	1.6100e-004	1.0000e-006
tblVehicleEF	HHD	1.4800e-004	5.0000e-006
tblVehicleEF	HHD	4.2300e-003	1.1900e-004
tblVehicleEF	HHD	0.43	0.55
tblVehicleEF	HHD	1.0700e-004	3.0000e-006
tblVehicleEF	HHD	0.20	0.11
tblVehicleEF	HHD	3.3700e-004	5.7200e-004
tblVehicleEF	HHD	0.07	3.0000e-006
tblVehicleEF	HHD	0.45	0.03
tblVehicleEF	HHD	0.10	0.08
tblVehicleEF	HHD	0.06	0.00
tblVehicleEF	HHD	2.10	6.90
tblVehicleEF	HHD	1.10	0.49
tblVehicleEF	HHD	3.41	8.0070e-003

tblVehicleEF	HHD	3,924.17	1,081.47
tblVehicleEF	HHD	1,546.51	1,297.06
tblVehicleEF	HHD	10.87	0.07
tblVehicleEF	HHD	12.59	6.02
tblVehicleEF	HHD	1.96	2.58
tblVehicleEF	HHD	19.42	2.34
tblVehicleEF	HHD	7.7210e-003	3.1530e-003
tblVehicleEF	HHD	0.06	0.06
tblVehicleEF	HHD	0.04	0.04
tblVehicleEF	HHD	6.0710e-003	0.02
tblVehicleEF	HHD	1.0500e-004	1.0000e-006
tblVehicleEF	HHD	7.3870e-003	3.0160e-003
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	8.8470e-003	8.9010e-003
tblVehicleEF	HHD	5.8080e-003	0.02
tblVehicleEF	HHD	9.6000e-005	1.0000e-006
tblVehicleEF	HHD	9.4000e-005	3.0000e-006
tblVehicleEF	HHD	4.3350e-003	1.2900e-004
tblVehicleEF	HHD	0.42	0.42
tblVehicleEF	HHD	7.3000e-005	2.0000e-006
tblVehicleEF	HHD	0.09	0.02
tblVehicleEF	HHD	3.8300e-004	6.3100e-004
tblVehicleEF	HHD	0.06	2.0000e-006
tblVehicleEF	HHD	0.04	0.01
tblVehicleEF	HHD	0.01	0.01
tblVehicleEF	HHD	1.6400e-004	1.0000e-006
tblVehicleEF	HHD	9.4000e-005	3.0000e-006

tblVehicleEF	HHD	4.3350e-003	1.2900e-004
tblVehicleEF	HHD	0.49	0.48
tblVehicleEF	HHD	7.3000e-005	2.0000e-006
tblVehicleEF	HHD	0.20	0.11
tblVehicleEF	HHD	3.8300e-004	6.3100e-004
tblVehicleEF	HHD	0.07	3.0000e-006
tblVehicleEF	LDA	3.4500e-003	1.7040e-003
tblVehicleEF	LDA	2.9680e-003	0.03
tblVehicleEF	LDA	0.47	0.53
tblVehicleEF	LDA	0.75	1.73
tblVehicleEF	LDA	225.60	232.38
tblVehicleEF	LDA	46.96	45.54
tblVehicleEF	LDA	0.03	0.02
tblVehicleEF	LDA	0.04	0.14
tblVehicleEF	LDA	1.8580e-003	1.4150e-003
tblVehicleEF	LDA	2.1030e-003	1.4930e-003
tblVehicleEF	LDA	1.7110e-003	1.3020e-003
tblVehicleEF	LDA	1.9330e-003	1.3730e-003
tblVehicleEF	LDA	0.03	0.04
tblVehicleEF	LDA	0.08	0.08
tblVehicleEF	LDA	0.03	0.04
tblVehicleEF	LDA	8.6750e-003	6.1670e-003
tblVehicleEF	LDA	0.03	0.18
tblVehicleEF	LDA	0.04	0.14
tblVehicleEF	LDA	2.2590e-003	2.2990e-003
tblVehicleEF	LDA	4.8200e-004	4.5100e-004
tblVehicleEF	LDA	0.03	0.04

tblVehicleEF	LDA	0.08	0.08
tblVehicleEF	LDA	0.03	0.04
tblVehicleEF	LDA	0.01	8.9590e-003
tblVehicleEF	LDA	0.03	0.18
tblVehicleEF	LDA	0.04	0.16
tblVehicleEF	LDA	3.6710e-003	1.8280e-003
tblVehicleEF	LDA	2.6440e-003	0.03
tblVehicleEF	LDA	0.52	0.58
tblVehicleEF	LDA	0.64	1.48
tblVehicleEF	LDA	236.09	242.91
tblVehicleEF	LDA	46.96	45.09
tblVehicleEF	LDA	0.03	0.02
tblVehicleEF	LDA	0.04	0.13
tblVehicleEF	LDA	1.8580e-003	1.4150e-003
tblVehicleEF	LDA	1.8580e-003	1.4150e-003
tblVehicleEF	LDA	2.1030e-003	1.4930e-003
tblVehicleEF	LDA	1.7110e-003	1.3020e-003
tblVehicleEF	LDA	1.9330e-003	1.3730e-003
tblVehicleEF	LDA	0.04	0.06
tblVehicleEF	LDA	0.08	0.08
tblVehicleEF	LDA	0.04	0.05
tblVehicleEF	LDA	9.2220e-003	6.5540e-003
tblVehicleEF	LDA	0.03	0.17
tblVehicleEF	LDA	0.04	0.13
tblVehicleEF	LDA	2.3640e-003	2.4030e-003
tblVehicleEF	LDA	4.8000e-004	4.4600e-004
tblVehicleEF	LDA	0.04	0.06

tblVehicleEF	LDA	0.08	0.08
tblVehicleEF	LDA	0.04	0.05
tblVehicleEF	LDA	0.01	9.5230e-003
tblVehicleEF	LDA	0.03	0.17
tblVehicleEF	LDA	0.04	0.14
tblVehicleEF	LDA	3.3790e-003	1.6660e-003
tblVehicleEF	LDA	3.0360e-003	0.03
tblVehicleEF	LDA	0.46	0.51
tblVehicleEF	LDA	0.77	1.78
tblVehicleEF	LDA	221.77	228.54
tblVehicleEF	LDA	46.96	45.64
tblVehicleEF	LDA	0.03	0.02
tblVehicleEF	LDA	0.04	0.14
tblVehicleEF	LDA	1.8580e-003	1.4150e-003
tblVehicleEF	LDA	2.1030e-003	1.4930e-003
tblVehicleEF	LDA	1.7110e-003	1.3020e-003
tblVehicleEF	LDA	1.9330e-003	1.3730e-003
tblVehicleEF	LDA	0.03	0.04
tblVehicleEF	LDA	0.08	0.08
tblVehicleEF	LDA	0.03	0.04
tblVehicleEF	LDA	8.4980e-003	6.0420e-003
tblVehicleEF	LDA	0.04	0.21
tblVehicleEF	LDA	0.04	0.15
tblVehicleEF	LDA	2.2200e-003	2.2610e-003
tblVehicleEF	LDA	4.8200e-004	4.5200e-004
tblVehicleEF	LDA	0.03	0.04
tblVehicleEF	LDA	0.08	0.08

tblVehicleEF	LDA	0.03	0.04
tblVehicleEF	LDA	0.01	8.7770e-003
tblVehicleEF	LDA	0.04	0.21
tblVehicleEF	LDA	0.04	0.16
tblVehicleEF	LDT1	9.4300e-003	4.0690e-003
tblVehicleEF	LDT1	7.9500e-003	0.05
tblVehicleEF	LDT1	1.09	0.90
tblVehicleEF	LDT1	1.69	1.86
tblVehicleEF	LDT1	292.89	277.98
tblVehicleEF	LDT1	59.74	54.78
tblVehicleEF	LDT1	0.10	0.06
tblVehicleEF	LDT1	0.09	0.18
tblVehicleEF	LDT1	2.7650e-003	1.8700e-003
tblVehicleEF	LDT1	2.8080e-003	1.8850e-003
tblVehicleEF	LDT1	2.5440e-003	1.7200e-003
tblVehicleEF	LDT1	2.5820e-003	1.7330e-003
tblVehicleEF	LDT1	0.09	0.08
tblVehicleEF	LDT1	0.19	0.14
tblVehicleEF	LDT1	0.08	0.08
tblVehicleEF	LDT1	0.02	0.02
tblVehicleEF	LDT1	0.14	0.49
tblVehicleEF	LDT1	0.11	0.21
tblVehicleEF	LDT1	2.9420e-003	2.7510e-003
tblVehicleEF	LDT1	6.2600e-004	5.4200e-004
tblVehicleEF	LDT1	0.09	0.08
tblVehicleEF	LDT1	0.19	0.14
tblVehicleEF	LDT1	0.08	0.08

tblVehicleEF	LDT1	0.03	0.03
tblVehicleEF	LDT1	0.14	0.49
tblVehicleEF	LDT1	0.12	0.23
tblVehicleEF	LDT1	9.9640e-003	4.3300e-003
tblVehicleEF	LDT1	7.0580e-003	0.04
tblVehicleEF	LDT1	1.19	0.98
tblVehicleEF	LDT1	1.44	1.59
tblVehicleEF	LDT1	305.73	288.65
tblVehicleEF	LDT1	59.74	54.27
tblVehicleEF	LDT1	0.09	0.06
tblVehicleEF	LDT1	0.09	0.16
tblVehicleEF	LDT1	2.7650e-003	1.8700e-003
tblVehicleEF	LDT1	2.7650e-003	1.8700e-003
tblVehicleEF	LDT1	2.8080e-003	1.8850e-003
tblVehicleEF	LDT1	2.5440e-003	1.7200e-003
tblVehicleEF	LDT1	2.5820e-003	1.7330e-003
tblVehicleEF	LDT1	0.14	0.13
tblVehicleEF	LDT1	0.20	0.14
tblVehicleEF	LDT1	0.11	0.10
tblVehicleEF	LDT1	0.02	0.02
tblVehicleEF	LDT1	0.13	0.46
tblVehicleEF	LDT1	0.10	0.19
tblVehicleEF	LDT1	3.0710e-003	2.8560e-003
tblVehicleEF	LDT1	6.2200e-004	5.3700e-004
tblVehicleEF	LDT1	0.14	0.13
tblVehicleEF	LDT1	0.20	0.14
tblVehicleEF	LDT1	0.11	0.10

tblVehicleEF	LDT1	0.04	0.03
tblVehicleEF	LDT1	0.13	0.46
tblVehicleEF	LDT1	0.10	0.21
tblVehicleEF	LDT1	9.2560e-003	3.9900e-003
tblVehicleEF	LDT1	8.1360e-003	0.05
tblVehicleEF	LDT1	1.06	0.87
tblVehicleEF	LDT1	1.74	1.92
tblVehicleEF	LDT1	288.17	274.07
tblVehicleEF	LDT1	59.74	54.89
tblVehicleEF	LDT1	0.10	0.06
tblVehicleEF	LDT1	0.10	0.18
tblVehicleEF	LDT1	2.7650e-003	1.8700e-003
tblVehicleEF	LDT1	2.8080e-003	1.8850e-003
tblVehicleEF	LDT1	2.5440e-003	1.7200e-003
tblVehicleEF	LDT1	2.5820e-003	1.7330e-003
tblVehicleEF	LDT1	0.09	0.08
tblVehicleEF	LDT1	0.21	0.15
tblVehicleEF	LDT1	0.07	0.07
tblVehicleEF	LDT1	0.02	0.02
tblVehicleEF	LDT1	0.16	0.58
tblVehicleEF	LDT1	0.11	0.22
tblVehicleEF	LDT1	2.8940e-003	2.7120e-003
tblVehicleEF	LDT1	6.2700e-004	5.4300e-004
tblVehicleEF	LDT1	0.09	0.08
tblVehicleEF	LDT1	0.21	0.15
tblVehicleEF	LDT1	0.07	0.07
tblVehicleEF	LDT1	0.03	0.02

tblVehicleEF	LDT1	0.16	0.58
tblVehicleEF	LDT1	0.12	0.24
tblVehicleEF	LDT2	4.9450e-003	3.0040e-003
tblVehicleEF	LDT2	3.7720e-003	0.05
tblVehicleEF	LDT2	0.65	0.73
tblVehicleEF	LDT2	0.94	2.21
tblVehicleEF	LDT2	322.39	286.61
tblVehicleEF	LDT2	65.72	56.77
tblVehicleEF	LDT2	0.05	0.05
tblVehicleEF	LDT2	0.06	0.18
tblVehicleEF	LDT2	2.0690e-003	1.5480e-003
tblVehicleEF	LDT2	2.3470e-003	1.5640e-003
tblVehicleEF	LDT2	1.9030e-003	1.4250e-003
tblVehicleEF	LDT2	2.1580e-003	1.4380e-003
tblVehicleEF	LDT2	0.04	0.06
tblVehicleEF	LDT2	0.08	0.09
tblVehicleEF	LDT2	0.04	0.06
tblVehicleEF	LDT2	0.01	0.01
tblVehicleEF	LDT2	0.06	0.34
tblVehicleEF	LDT2	0.05	0.21
tblVehicleEF	LDT2	3.2280e-003	2.8350e-003
tblVehicleEF	LDT2	6.7200e-004	5.6200e-004
tblVehicleEF	LDT2	0.04	0.06
tblVehicleEF	LDT2	0.08	0.09
tblVehicleEF	LDT2	0.04	0.06
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.06	0.34

tblVehicleEF	LDT2	0.06	0.22
tblVehicleEF	LDT2	5.2500e-003	3.2070e-003
tblVehicleEF	LDT2	3.3720e-003	0.04
tblVehicleEF	LDT2	0.72	0.81
tblVehicleEF	LDT2	0.81	1.89
tblVehicleEF	LDT2	336.78	296.59
tblVehicleEF	LDT2	65.72	56.18
tblVehicleEF	LDT2	0.05	0.04
tblVehicleEF	LDT2	0.06	0.17
tblVehicleEF	LDT2	2.0690e-003	1.5480e-003
tblVehicleEF	LDT2	2.0690e-003	1.5480e-003
tblVehicleEF	LDT2	2.3470e-003	1.5640e-003
tblVehicleEF	LDT2	1.9030e-003	1.4250e-003
tblVehicleEF	LDT2	2.1580e-003	1.4380e-003
tblVehicleEF	LDT2	0.06	0.09
tblVehicleEF	LDT2	0.08	0.10
tblVehicleEF	LDT2	0.05	0.09
tblVehicleEF	LDT2	0.01	0.01
tblVehicleEF	LDT2	0.05	0.32
tblVehicleEF	LDT2	0.05	0.18
tblVehicleEF	LDT2	3.3730e-003	2.9340e-003
tblVehicleEF	LDT2	6.7000e-004	5.5600e-004
tblVehicleEF	LDT2	0.06	0.09
tblVehicleEF	LDT2	0.08	0.10
tblVehicleEF	LDT2	0.05	0.09
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.05	0.32

tblVehicleEF	LDT2	0.05	0.20
tblVehicleEF	LDT2	4.8460e-003	2.9410e-003
tblVehicleEF	LDT2	3.8580e-003	0.05
tblVehicleEF	LDT2	0.63	0.71
tblVehicleEF	LDT2	0.97	2.29
tblVehicleEF	LDT2	317.09	282.95
tblVehicleEF	LDT2	65.72	56.90
tblVehicleEF	LDT2	0.05	0.05
tblVehicleEF	LDT2	0.06	0.19
tblVehicleEF	LDT2	2.0690e-003	1.5480e-003
tblVehicleEF	LDT2	2.3470e-003	1.5640e-003
tblVehicleEF	LDT2	1.9030e-003	1.4250e-003
tblVehicleEF	LDT2	2.1580e-003	1.4380e-003
tblVehicleEF	LDT2	0.03	0.06
tblVehicleEF	LDT2	0.08	0.10
tblVehicleEF	LDT2	0.04	0.06
tblVehicleEF	LDT2	0.01	0.01
tblVehicleEF	LDT2	0.07	0.40
tblVehicleEF	LDT2	0.05	0.21
tblVehicleEF	LDT2	3.1750e-003	2.7990e-003
tblVehicleEF	LDT2	6.7300e-004	5.6300e-004
tblVehicleEF	LDT2	0.03	0.06
tblVehicleEF	LDT2	0.08	0.10
tblVehicleEF	LDT2	0.04	0.06
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.07	0.40
tblVehicleEF	LDT2	0.06	0.23

tblVehicleEF	LHD1	4.2560e-003	4.5300e-003
tblVehicleEF	LHD1	6.1810e-003	3.2190e-003
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	0.14	0.18
tblVehicleEF	LHD1	0.47	0.36
tblVehicleEF	LHD1	1.90	0.92
tblVehicleEF	LHD1	8.96	8.48
tblVehicleEF	LHD1	567.73	600.46
tblVehicleEF	LHD1	27.87	10.55
tblVehicleEF	LHD1	0.07	0.05
tblVehicleEF	LHD1	0.56	0.34
tblVehicleEF	LHD1	0.72	0.25
tblVehicleEF	LHD1	8.3000e-004	9.0000e-004
tblVehicleEF	LHD1	0.01	9.9110e-003
tblVehicleEF	LHD1	7.6280e-003	5.1900e-003
tblVehicleEF	LHD1	7.3300e-004	2.2200e-004
tblVehicleEF	LHD1	7.9400e-004	8.6100e-004
tblVehicleEF	LHD1	2.5990e-003	2.4780e-003
tblVehicleEF	LHD1	7.2780e-003	4.9400e-003
tblVehicleEF	LHD1	6.7400e-004	2.0400e-004
tblVehicleEF	LHD1	2.2910e-003	1.7550e-003
tblVehicleEF	LHD1	0.08	0.06
tblVehicleEF	LHD1	0.01	0.02
tblVehicleEF	LHD1	1.4720e-003	1.1400e-003
tblVehicleEF	LHD1	0.05	0.03
tblVehicleEF	LHD1	0.25	0.42
tblVehicleEF	LHD1	0.17	0.05

tblVehicleEF	LHD1	8.9000e-005	8.2000e-005
tblVehicleEF	LHD1	5.5510e-003	5.8510e-003
tblVehicleEF	LHD1	3.1400e-004	1.0400e-004
tblVehicleEF	LHD1	2.2910e-003	1.7550e-003
tblVehicleEF	LHD1	0.08	0.06
tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	1.4720e-003	1.1400e-003
tblVehicleEF	LHD1	0.06	0.04
tblVehicleEF	LHD1	0.25	0.42
tblVehicleEF	LHD1	0.19	0.06
tblVehicleEF	LHD1	4.2560e-003	4.5400e-003
tblVehicleEF	LHD1	6.2820e-003	3.2650e-003
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	0.14	0.18
tblVehicleEF	LHD1	0.48	0.37
tblVehicleEF	LHD1	1.81	0.88
tblVehicleEF	LHD1	8.96	8.48
tblVehicleEF	LHD1	567.73	600.47
tblVehicleEF	LHD1	27.87	10.48
tblVehicleEF	LHD1	0.07	0.05
tblVehicleEF	LHD1	0.52	0.32
tblVehicleEF	LHD1	0.69	0.24
tblVehicleEF	LHD1	8.3000e-004	9.0000e-004
tblVehicleEF	LHD1	0.01	9.9110e-003
tblVehicleEF	LHD1	7.6280e-003	5.1900e-003
tblVehicleEF	LHD1	7.6280e-003	5.1900e-003
tblVehicleEF	LHD1	7.3300e-004	2.2200e-004

tblVehicleEF	LHD1	7.9400e-004	8.6100e-004
tblVehicleEF	LHD1	2.5990e-003	2.4780e-003
tblVehicleEF	LHD1	7.2780e-003	4.9400e-003
tblVehicleEF	LHD1	6.7400e-004	2.0400e-004
tblVehicleEF	LHD1	3.4170e-003	2.6250e-003
tblVehicleEF	LHD1	0.08	0.06
tblVehicleEF	LHD1	0.01	0.02
tblVehicleEF	LHD1	2.0400e-003	1.5850e-003
tblVehicleEF	LHD1	0.05	0.03
tblVehicleEF	LHD1	0.25	0.40
tblVehicleEF	LHD1	0.16	0.05
tblVehicleEF	LHD1	8.9000e-005	8.2000e-005
tblVehicleEF	LHD1	5.5510e-003	5.8510e-003
tblVehicleEF	LHD1	3.1200e-004	1.0400e-004
tblVehicleEF	LHD1	3.4170e-003	2.6250e-003
tblVehicleEF	LHD1	0.08	0.06
tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	2.0400e-003	1.5850e-003
tblVehicleEF	LHD1	0.06	0.04
tblVehicleEF	LHD1	0.25	0.40
tblVehicleEF	LHD1	0.18	0.05
tblVehicleEF	LHD1	4.2560e-003	4.5290e-003
tblVehicleEF	LHD1	6.1560e-003	3.2070e-003
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	0.14	0.18
tblVehicleEF	LHD1	0.47	0.36
tblVehicleEF	LHD1	1.91	0.93

tblVehicleEF	LHD1	8.96	8.48
tblVehicleEF	LHD1	567.73	600.45
tblVehicleEF	LHD1	27.87	10.56
tblVehicleEF	LHD1	0.07	0.05
tblVehicleEF	LHD1	0.55	0.34
tblVehicleEF	LHD1	0.73	0.25
tblVehicleEF	LHD1	8.3000e-004	9.0000e-004
tblVehicleEF	LHD1	0.01	9.9110e-003
tblVehicleEF	LHD1	7.6280e-003	5.1900e-003
tblVehicleEF	LHD1	7.3300e-004	2.2200e-004
tblVehicleEF	LHD1	7.9400e-004	8.6100e-004
tblVehicleEF	LHD1	2.5990e-003	2.4780e-003
tblVehicleEF	LHD1	7.2780e-003	4.9400e-003
tblVehicleEF	LHD1	6.7400e-004	2.0400e-004
tblVehicleEF	LHD1	2.3510e-003	1.8010e-003
tblVehicleEF	LHD1	0.09	0.07
tblVehicleEF	LHD1	0.01	0.02
tblVehicleEF	LHD1	1.4360e-003	1.1130e-003
tblVehicleEF	LHD1	0.05	0.03
tblVehicleEF	LHD1	0.28	0.45
tblVehicleEF	LHD1	0.17	0.05
tblVehicleEF	LHD1	8.9000e-005	8.2000e-005
tblVehicleEF	LHD1	5.5510e-003	5.8510e-003
tblVehicleEF	LHD1	3.1400e-004	1.0500e-004
tblVehicleEF	LHD1	2.3510e-003	1.8010e-003
tblVehicleEF	LHD1	0.09	0.07
tblVehicleEF	LHD1	0.02	0.03

tblVehicleEF	LHD1	1.4360e-003	1.1130e-003
tblVehicleEF	LHD1	0.06	0.04
tblVehicleEF	LHD1	0.28	0.45
tblVehicleEF	LHD1	0.19	0.06
tblVehicleEF	LHD2	3.0070e-003	3.0890e-003
tblVehicleEF	LHD2	2.5890e-003	2.5840e-003
tblVehicleEF	LHD2	4.6140e-003	6.9570e-003
tblVehicleEF	LHD2	0.12	0.14
tblVehicleEF	LHD2	0.22	0.27
tblVehicleEF	LHD2	0.99	0.57
tblVehicleEF	LHD2	13.53	13.01
tblVehicleEF	LHD2	591.52	602.25
tblVehicleEF	LHD2	24.15	7.76
tblVehicleEF	LHD2	0.08	0.07
tblVehicleEF	LHD2	0.27	0.43
tblVehicleEF	LHD2	0.35	0.17
tblVehicleEF	LHD2	1.0680e-003	1.3850e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	7.1440e-003	9.4110e-003
tblVehicleEF	LHD2	3.9000e-004	1.2400e-004
tblVehicleEF	LHD2	1.0220e-003	1.3250e-003
tblVehicleEF	LHD2	2.6890e-003	2.6790e-003
tblVehicleEF	LHD2	6.8210e-003	8.9900e-003
tblVehicleEF	LHD2	3.5800e-004	1.1400e-004
tblVehicleEF	LHD2	7.3800e-004	1.0100e-003
tblVehicleEF	LHD2	0.02	0.04
tblVehicleEF	LHD2	0.01	0.02

tblVehicleEF	LHD2	5.2900e-004	6.9100e-004
tblVehicleEF	LHD2	0.04	0.04
tblVehicleEF	LHD2	0.05	0.21
tblVehicleEF	LHD2	0.06	0.03
tblVehicleEF	LHD2	1.3200e-004	1.2400e-004
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tblVehicleEF	LHD2	2.5900e-004	7.7000e-005
tblVehicleEF	LHD2	7.3800e-004	1.0100e-003
tblVehicleEF	LHD2	0.02	0.04
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	5.2900e-004	6.9100e-004
tblVehicleEF	LHD2	0.04	0.05
tblVehicleEF	LHD2	0.05	0.21
tblVehicleEF	LHD2	0.07	0.04
tblVehicleEF	LHD2	3.0070e-003	3.0960e-003
tblVehicleEF	LHD2	2.6110e-003	2.6040e-003
tblVehicleEF	LHD2	4.4830e-003	6.7190e-003
tblVehicleEF	LHD2	0.12	0.14
tblVehicleEF	LHD2	0.22	0.27
tblVehicleEF	LHD2	0.95	0.55
tblVehicleEF	LHD2	13.53	13.01
tblVehicleEF	LHD2	591.52	602.26
tblVehicleEF	LHD2	24.15	7.72
tblVehicleEF	LHD2	0.08	0.07
tblVehicleEF	LHD2	0.26	0.41
tblVehicleEF	LHD2	0.34	0.16
tblVehicleEF	LHD2	1.0680e-003	1.3850e-003

tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	7.1440e-003	9.4110e-003
tblVehicleEF	LHD2	7.1440e-003	9.4110e-003
tblVehicleEF	LHD2	3.9000e-004	1.2400e-004
tblVehicleEF	LHD2	1.0220e-003	1.3250e-003
tblVehicleEF	LHD2	2.6890e-003	2.6790e-003
tblVehicleEF	LHD2	6.8210e-003	8.9900e-003
tblVehicleEF	LHD2	3.5800e-004	1.1400e-004
tblVehicleEF	LHD2	1.0990e-003	1.5050e-003
tblVehicleEF	LHD2	0.02	0.04
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	7.3000e-004	9.5700e-004
tblVehicleEF	LHD2	0.04	0.04
tblVehicleEF	LHD2	0.05	0.20
tblVehicleEF	LHD2	0.06	0.03
tblVehicleEF	LHD2	1.3200e-004	1.2400e-004
tblVehicleEF	LHD2	5.7530e-003	5.8170e-003
tblVehicleEF	LHD2	2.5800e-004	7.6000e-005
tblVehicleEF	LHD2	1.0990e-003	1.5050e-003
tblVehicleEF	LHD2	0.02	0.04
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	7.3000e-004	9.5700e-004
tblVehicleEF	LHD2	0.04	0.05
tblVehicleEF	LHD2	0.05	0.20
tblVehicleEF	LHD2	0.07	0.04
tblVehicleEF	LHD2	3.0070e-003	3.0880e-003
tblVehicleEF	LHD2	2.5830e-003	2.5790e-003

tblVehicleEF	LHD2	4.6410e-003	7.0060e-003
tblVehicleEF	LHD2	0.12	0.14
tblVehicleEF	LHD2	0.22	0.27
tblVehicleEF	LHD2	1.00	0.58
tblVehicleEF	LHD2	13.53	13.01
tblVehicleEF	LHD2	591.52	602.25
tblVehicleEF	LHD2	24.15	7.77
tblVehicleEF	LHD2	0.08	0.07
tblVehicleEF	LHD2	0.27	0.43
tblVehicleEF	LHD2	0.36	0.17
tblVehicleEF	LHD2	1.0680e-003	1.3850e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	7.1440e-003	9.4110e-003
tblVehicleEF	LHD2	3.9000e-004	1.2400e-004
tblVehicleEF	LHD2	1.0220e-003	1.3250e-003
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tblVehicleEF	LHD2	6.8210e-003	8.9900e-003
tblVehicleEF	LHD2	3.5800e-004	1.1400e-004
tblVehicleEF	LHD2	7.2600e-004	1.0070e-003
tblVehicleEF	LHD2	0.03	0.04
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	5.0900e-004	6.6400e-004
tblVehicleEF	LHD2	0.04	0.04
tblVehicleEF	LHD2	0.06	0.23
tblVehicleEF	LHD2	0.06	0.03
tblVehicleEF	LHD2	1.3200e-004	1.2400e-004
tblVehicleEF	LHD2	5.7530e-003	5.8170e-003

tblVehicleEF	LHD2	2.5900e-004	7.7000e-005
tblVehicleEF	LHD2	7.2600e-004	1.0070e-003
tblVehicleEF	LHD2	0.03	0.04
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	5.0900e-004	6.6400e-004
tblVehicleEF	LHD2	0.04	0.05
tblVehicleEF	LHD2	0.06	0.23
tblVehicleEF	LHD2	0.07	0.04
tblVehicleEF	MCY	0.56	0.38
tblVehicleEF	MCY	0.15	0.23
tblVehicleEF	MCY	18.22	18.36
tblVehicleEF	MCY	9.76	8.64
tblVehicleEF	MCY	191.62	224.56
tblVehicleEF	MCY	42.89	58.24
tblVehicleEF	MCY	1.13	1.13
tblVehicleEF	MCY	0.31	0.26
tblVehicleEF	MCY	2.6300e-003	2.6240e-003
tblVehicleEF	MCY	3.4230e-003	2.9930e-003
tblVehicleEF	MCY	2.4530e-003	2.4480e-003
tblVehicleEF	MCY	3.2050e-003	2.8030e-003
tblVehicleEF	MCY	1.05	1.07
tblVehicleEF	MCY	0.58	0.60
tblVehicleEF	MCY	0.63	0.64
tblVehicleEF	MCY	2.58	2.58
tblVehicleEF	MCY	0.51	1.58
tblVehicleEF	MCY	2.00	1.78
tblVehicleEF	MCY	2.2930e-003	2.2220e-003

tblVehicleEF	MCY	6.4700e-004	5.7600e-004
tblVehicleEF	MCY	1.05	1.07
tblVehicleEF	MCY	0.58	0.60
tblVehicleEF	MCY	0.63	0.64
tblVehicleEF	MCY	3.23	3.24
tblVehicleEF	MCY	0.51	1.58
tblVehicleEF	MCY	2.18	1.93
tblVehicleEF	MCY	0.54	0.37
tblVehicleEF	MCY	0.13	0.21
tblVehicleEF	MCY	17.60	17.73
tblVehicleEF	MCY	8.88	7.83
tblVehicleEF	MCY	191.62	223.36
tblVehicleEF	MCY	42.89	56.31
tblVehicleEF	MCY	0.99	0.99
tblVehicleEF	MCY	0.29	0.25
tblVehicleEF	MCY	2.6300e-003	2.6240e-003
tblVehicleEF	MCY	2.6300e-003	2.6240e-003
tblVehicleEF	MCY	3.4230e-003	2.9930e-003
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tblVehicleEF	MCY	3.2050e-003	2.8030e-003
tblVehicleEF	MCY	1.69	1.72
tblVehicleEF	MCY	0.65	0.67
tblVehicleEF	MCY	1.03	1.04
tblVehicleEF	MCY	2.52	2.53
tblVehicleEF	MCY	0.47	1.48
tblVehicleEF	MCY	1.79	1.58
tblVehicleEF	MCY	2.2820e-003	2.2100e-003

tblVehicleEF	MCY	6.2600e-004	5.5700e-004
tblVehicleEF	MCY	1.69	1.72
tblVehicleEF	MCY	0.65	0.67
tblVehicleEF	MCY	1.03	1.04
tblVehicleEF	MCY	3.17	3.17
tblVehicleEF	MCY	0.47	1.48
tblVehicleEF	MCY	1.95	1.72
tblVehicleEF	MCY	0.56	0.38
tblVehicleEF	MCY	0.15	0.23
tblVehicleEF	MCY	18.32	18.46
tblVehicleEF	MCY	9.91	8.79
tblVehicleEF	MCY	191.62	224.74
tblVehicleEF	MCY	42.89	58.60
tblVehicleEF	MCY	1.10	1.11
tblVehicleEF	MCY	0.31	0.27
tblVehicleEF	MCY	2.6300e-003	2.6240e-003
tblVehicleEF	MCY	3.4230e-003	2.9930e-003
tblVehicleEF	MCY	2.4530e-003	2.4480e-003
tblVehicleEF	MCY	3.2050e-003	2.8030e-003
tblVehicleEF	MCY	1.14	1.16
tblVehicleEF	MCY	0.74	0.77
tblVehicleEF	MCY	0.60	0.60
tblVehicleEF	MCY	2.58	2.59
tblVehicleEF	MCY	0.59	1.85
tblVehicleEF	MCY	2.04	1.81
tblVehicleEF	MCY	2.2950e-003	2.2240e-003
tblVehicleEF	MCY	6.5100e-004	5.8000e-004

tblVehicleEF	MCY	1.14	1.16
tblVehicleEF	MCY	0.74	0.77
tblVehicleEF	MCY	0.60	0.60
tblVehicleEF	MCY	3.24	3.25
tblVehicleEF	MCY	0.59	1.85
tblVehicleEF	MCY	2.22	1.97
tblVehicleEF	MDV	8.0950e-003	3.5000e-003
tblVehicleEF	MDV	7.5800e-003	0.05
tblVehicleEF	MDV	0.89	0.78
tblVehicleEF	MDV	1.51	2.36
tblVehicleEF	MDV	435.10	352.23
tblVehicleEF	MDV	87.36	68.49
tblVehicleEF	MDV	0.09	0.06
tblVehicleEF	MDV	0.12	0.21
tblVehicleEF	MDV	2.1200e-003	1.5760e-003
tblVehicleEF	MDV	2.3330e-003	1.5670e-003
tblVehicleEF	MDV	1.9530e-003	1.4520e-003
tblVehicleEF	MDV	2.1450e-003	1.4410e-003
tblVehicleEF	MDV	0.06	0.07
tblVehicleEF	MDV	0.12	0.11
tblVehicleEF	MDV	0.06	0.08
tblVehicleEF	MDV	0.02	0.01
tblVehicleEF	MDV	0.08	0.35
tblVehicleEF	MDV	0.10	0.24
tblVehicleEF	MDV	4.3540e-003	3.4810e-003
tblVehicleEF	MDV	8.9900e-004	6.7800e-004
tblVehicleEF	MDV	0.06	0.07

tblVehicleEF	MDV	0.12	0.11
tblVehicleEF	MDV	0.06	0.08
tblVehicleEF	MDV	0.03	0.02
tblVehicleEF	MDV	0.08	0.35
tblVehicleEF	MDV	0.11	0.26
tblVehicleEF	MDV	8.5850e-003	3.7380e-003
tblVehicleEF	MDV	6.7500e-003	0.05
tblVehicleEF	MDV	0.98	0.86
tblVehicleEF	MDV	1.30	2.01
tblVehicleEF	MDV	454.05	362.48
tblVehicleEF	MDV	87.36	67.85
tblVehicleEF	MDV	0.08	0.05
tblVehicleEF	MDV	0.11	0.19
tblVehicleEF	MDV	2.1200e-003	1.5760e-003
tblVehicleEF	MDV	2.1200e-003	1.5760e-003
tblVehicleEF	MDV	2.3330e-003	1.5670e-003
tblVehicleEF	MDV	1.9530e-003	1.4520e-003
tblVehicleEF	MDV	2.1450e-003	1.4410e-003
tblVehicleEF	MDV	0.09	0.11
tblVehicleEF	MDV	0.13	0.11
tblVehicleEF	MDV	0.08	0.10
tblVehicleEF	MDV	0.02	0.02
tblVehicleEF	MDV	0.07	0.33
tblVehicleEF	MDV	0.09	0.21
tblVehicleEF	MDV	4.5440e-003	3.5830e-003
tblVehicleEF	MDV	8.9500e-004	6.7100e-004
tblVehicleEF	MDV	0.09	0.11

tblVehicleEF	MDV	0.13	0.11
tblVehicleEF	MDV	0.08	0.10
tblVehicleEF	MDV	0.03	0.02
tblVehicleEF	MDV	0.07	0.33
tblVehicleEF	MDV	0.10	0.23
tblVehicleEF	MDV	7.9350e-003	3.4270e-003
tblVehicleEF	MDV	7.7540e-003	0.05
tblVehicleEF	MDV	0.86	0.75
tblVehicleEF	MDV	1.56	2.44
tblVehicleEF	MDV	428.14	348.48
tblVehicleEF	MDV	87.36	68.63
tblVehicleEF	MDV	0.09	0.06
tblVehicleEF	MDV	0.12	0.21
tblVehicleEF	MDV	2.1200e-003	1.5760e-003
tblVehicleEF	MDV	2.3330e-003	1.5670e-003
tblVehicleEF	MDV	1.9530e-003	1.4520e-003
tblVehicleEF	MDV	2.1450e-003	1.4410e-003
tblVehicleEF	MDV	0.05	0.06
tblVehicleEF	MDV	0.13	0.11
tblVehicleEF	MDV	0.06	0.07
tblVehicleEF	MDV	0.02	0.01
tblVehicleEF	MDV	0.09	0.41
tblVehicleEF	MDV	0.10	0.24
tblVehicleEF	MDV	4.2840e-003	3.4440e-003
tblVehicleEF	MDV	9.0000e-004	6.7900e-004
tblVehicleEF	MDV	0.05	0.06
tblVehicleEF	MDV	0.13	0.11

tblVehicleEF	MDV	0.06	0.07
tblVehicleEF	MDV	0.03	0.02
tblVehicleEF	MDV	0.09	0.41
tblVehicleEF	MDV	0.11	0.27
tblVehicleEF	MH	0.01	5.4870e-003
tblVehicleEF	MH	0.02	0.02
tblVehicleEF	MH	0.88	0.48
tblVehicleEF	MH	4.13	1.74
tblVehicleEF	MH	1,114.66	1,368.13
tblVehicleEF	MH	58.37	16.94
tblVehicleEF	MH	0.78	0.93
tblVehicleEF	MH	0.63	0.24
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	0.01	0.02
tblVehicleEF	MH	9.1100e-004	2.2800e-004
tblVehicleEF	MH	3.2110e-003	3.2730e-003
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	8.3800e-004	2.1000e-004
tblVehicleEF	MH	0.60	0.49
tblVehicleEF	MH	0.04	0.03
tblVehicleEF	MH	0.28	0.23
tblVehicleEF	MH	0.04	0.03
tblVehicleEF	MH	0.01	0.77
tblVehicleEF	MH	0.24	0.08
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	6.5500e-004	1.6800e-004
tblVehicleEF	MH	0.60	0.49

tblVehicleEF	MH	0.04	0.03
tblVehicleEF	MH	0.28	0.23
tblVehicleEF	MH	0.06	0.04
tblVehicleEF	MH	0.01	0.77
tblVehicleEF	MH	0.26	0.09
tblVehicleEF	MH	0.01	5.5950e-003
tblVehicleEF	MH	0.02	0.02
tblVehicleEF	MH	0.91	0.50
tblVehicleEF	MH	3.89	1.64
tblVehicleEF	MH	1,114.66	1,368.15
tblVehicleEF	MH	58.37	16.77
tblVehicleEF	MH	0.73	0.86
tblVehicleEF	MH	0.61	0.23
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	0.01	0.02
tblVehicleEF	MH	0.01	0.02
tblVehicleEF	MH	9.1100e-004	2.2800e-004
tblVehicleEF	MH	3.2110e-003	3.2730e-003
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	8.3800e-004	2.1000e-004
tblVehicleEF	MH	0.89	0.72
tblVehicleEF	MH	0.04	0.04
tblVehicleEF	MH	0.39	0.32
tblVehicleEF	MH	0.04	0.03
tblVehicleEF	MH	0.01	0.75
tblVehicleEF	MH	0.23	0.07
tblVehicleEF	MH	0.01	0.01

tblVehicleEF	MH	6.5100e-004	1.6600e-004
tblVehicleEF	MH	0.89	0.72
tblVehicleEF	MH	0.04	0.04
tblVehicleEF	MH	0.39	0.32
tblVehicleEF	MH	0.06	0.05
tblVehicleEF	MH	0.01	0.75
tblVehicleEF	MH	0.25	0.08
tblVehicleEF	MH	0.01	5.4580e-003
tblVehicleEF	MH	0.02	0.02
tblVehicleEF	MH	0.88	0.48
tblVehicleEF	MH	4.17	1.75
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tblVehicleEF	MH	0.77	0.91
tblVehicleEF	MH	0.64	0.25
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	0.01	0.02
tblVehicleEF	MH	9.1100e-004	2.2800e-004
tblVehicleEF	MH	3.2110e-003	3.2730e-003
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	8.3800e-004	2.1000e-004
tblVehicleEF	MH	0.66	0.52
tblVehicleEF	MH	0.05	0.04
tblVehicleEF	MH	0.28	0.23
tblVehicleEF	MH	0.04	0.03
tblVehicleEF	MH	0.01	0.82
tblVehicleEF	MH	0.24	0.08

tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	6.5600e-004	1.6800e-004
tblVehicleEF	MH	0.66	0.52
tblVehicleEF	MH	0.05	0.04
tblVehicleEF	MH	0.28	0.23
tblVehicleEF	MH	0.06	0.04
tblVehicleEF	MH	0.01	0.82
tblVehicleEF	MH	0.26	0.09
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tblVehicleEF	MHD	2.6900e-003	1.2130e-003
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tblVehicleEF	MHD	1,129.34	958.19
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tblVehicleEF	MHD	0.35	0.31
tblVehicleEF	MHD	0.72	1.08
tblVehicleEF	MHD	10.39	1.64
tblVehicleEF	MHD	6.3000e-005	1.8200e-004
tblVehicleEF	MHD	2.8540e-003	6.2720e-003
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tblVehicleEF	MHD	6.1000e-005	1.7400e-004
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tblVehicleEF	MHD	6.8300e-004	1.0600e-004
tblVehicleEF	MHD	8.2500e-004	4.4700e-004

tblVehicleEF	MHD	0.04	0.02
tblVehicleEF	MHD	0.02	0.02
tblVehicleEF	MHD	5.9500e-004	3.1800e-004
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tblVehicleEF	MHD	0.02	0.10
tblVehicleEF	MHD	0.26	0.05
tblVehicleEF	MHD	1.3130e-003	5.7600e-004
tblVehicleEF	MHD	0.01	9.1570e-003
tblVehicleEF	MHD	6.5700e-004	9.9000e-005
tblVehicleEF	MHD	8.2500e-004	4.4700e-004
tblVehicleEF	MHD	0.04	0.02
tblVehicleEF	MHD	0.03	0.03
tblVehicleEF	MHD	5.9500e-004	3.1800e-004
tblVehicleEF	MHD	0.04	0.01
tblVehicleEF	MHD	0.02	0.10
tblVehicleEF	MHD	0.28	0.05
tblVehicleEF	MHD	0.01	3.8990e-003
tblVehicleEF	MHD	2.7180e-003	1.2350e-003
tblVehicleEF	MHD	0.03	9.4620e-003
tblVehicleEF	MHD	0.25	0.33
tblVehicleEF	MHD	0.24	0.17
tblVehicleEF	MHD	3.91	0.99
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tblVehicleEF	MHD	1,129.34	958.20
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tblVehicleEF	MHD	0.36	0.30
tblVehicleEF	MHD	0.67	1.02

tblVehicleEF	MHD	10.37	1.63
tblVehicleEF	MHD	5.3000e-005	1.5600e-004
tblVehicleEF	MHD	2.8540e-003	6.2720e-003
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tblVehicleEF	MHD	1.2300e-003	6.6700e-004
tblVehicleEF	MHD	0.04	0.02
tblVehicleEF	MHD	0.02	0.02
tblVehicleEF	MHD	8.2400e-004	4.4100e-004
tblVehicleEF	MHD	0.03	0.01
tblVehicleEF	MHD	0.02	0.10
tblVehicleEF	MHD	0.25	0.05
tblVehicleEF	MHD	1.3890e-003	5.7400e-004
tblVehicleEF	MHD	0.01	9.1570e-003
tblVehicleEF	MHD	6.5400e-004	9.9000e-005
tblVehicleEF	MHD	1.2300e-003	6.6700e-004
tblVehicleEF	MHD	0.04	0.02
tblVehicleEF	MHD	0.03	0.03
tblVehicleEF	MHD	8.2400e-004	4.4100e-004
tblVehicleEF	MHD	0.04	0.01
tblVehicleEF	MHD	0.02	0.10
tblVehicleEF	MHD	0.27	0.05
tblVehicleEF	MHD	0.02	4.4000e-003
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tblVehicleEF	MHD	0.70	1.06
tblVehicleEF	MHD	10.40	1.64
tblVehicleEF	MHD	7.7000e-005	2.1700e-004
tblVehicleEF	MHD	2.8540e-003	6.2720e-003
tblVehicleEF	MHD	7.4300e-004	1.1500e-004
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tblVehicleEF	MHD	2.7260e-003	5.9950e-003
tblVehicleEF	MHD	6.8300e-004	1.0600e-004
tblVehicleEF	MHD	8.1200e-004	4.4200e-004
tblVehicleEF	MHD	0.04	0.02
tblVehicleEF	MHD	0.03	0.02
tblVehicleEF	MHD	5.7200e-004	3.0600e-004
tblVehicleEF	MHD	0.03	0.01
tblVehicleEF	MHD	0.02	0.11
tblVehicleEF	MHD	0.26	0.05
tblVehicleEF	MHD	1.2080e-003	5.7800e-004
tblVehicleEF	MHD	0.01	9.1570e-003
tblVehicleEF	MHD	6.5800e-004	1.0000e-004
tblVehicleEF	MHD	8.1200e-004	4.4200e-004

tblVehicleEF	MHD	0.04	0.02
tblVehicleEF	MHD	0.04	0.03
tblVehicleEF	MHD	5.7200e-004	3.0600e-004
tblVehicleEF	MHD	0.04	0.01
tblVehicleEF	MHD	0.02	0.11
tblVehicleEF	MHD	0.28	0.05
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tblVehicleEF	OBUS	4.3340e-003	3.1690e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.25	0.66
tblVehicleEF	OBUS	0.34	0.39
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tblVehicleEF	OBUS	110.83	96.32
tblVehicleEF	OBUS	1,238.95	1,243.39
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tblVehicleEF	OBUS	0.71	1.14
tblVehicleEF	OBUS	2.54	0.91
tblVehicleEF	OBUS	2.2000e-005	1.3700e-004
tblVehicleEF	OBUS	2.8890e-003	7.3770e-003
tblVehicleEF	OBUS	9.0300e-004	1.9900e-004
tblVehicleEF	OBUS	2.1000e-005	1.3100e-004
tblVehicleEF	OBUS	2.7470e-003	7.0430e-003
tblVehicleEF	OBUS	8.3000e-004	1.8300e-004
tblVehicleEF	OBUS	1.3730e-003	1.7400e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.03	0.05

tblVehicleEF	OBUS	7.6800e-004	9.2700e-004
tblVehicleEF	OBUS	0.04	0.02
tblVehicleEF	OBUS	0.04	0.27
tblVehicleEF	OBUS	0.28	0.10
tblVehicleEF	OBUS	1.0690e-003	9.1600e-004
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	7.4100e-004	1.6900e-004
tblVehicleEF	OBUS	1.3730e-003	1.7400e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.05	0.07
tblVehicleEF	OBUS	7.6800e-004	9.2700e-004
tblVehicleEF	OBUS	0.05	0.03
tblVehicleEF	OBUS	0.04	0.27
tblVehicleEF	OBUS	0.31	0.11
tblVehicleEF	OBUS	0.01	8.2450e-003
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tblVehicleEF	OBUS	1.9000e-005	1.2200e-004

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tblVehicleEF	OBUS	2.8890e-003	7.3770e-003
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tblVehicleEF	OBUS	0.03	0.06
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tblVehicleEF	OBUS	0.27	0.09
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tblVehicleEF	OBUS	0.05	0.07

tblVehicleEF	OBUS	7.4000e-004	9.0000e-004
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tblVehicleEF	SBUS	0.01	0.02
tblVehicleEF	SBUS	0.01	0.02
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tblVehicleEF	SBUS	3.3500e-003	1.9390e-003
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tblVehicleEF	SBUS	0.01	9.8310e-003
tblVehicleEF	SBUS	7.0800e-004	5.9000e-005
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tblVehicleEF	SBUS	0.01	0.05
tblVehicleEF	SBUS	0.35	0.04
tblVehicleEF	SBUS	0.82	0.09
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tblVehicleEF	SBUS	0.01	0.02
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tblVehicleEF	SBUS	3.5510e-003	1.0900e-003
tblVehicleEF	SBUS	0.03	0.01
tblVehicleEF	SBUS	1.05	0.40
tblVehicleEF	SBUS	2.0480e-003	6.2800e-004
tblVehicleEF	SBUS	0.08	0.07
tblVehicleEF	SBUS	0.02	0.07
tblVehicleEF	SBUS	0.37	0.04
tblVehicleEF	SBUS	9.7050e-003	3.2510e-003
tblVehicleEF	SBUS	0.01	9.8310e-003

tblVehicleEF	SBUS	7.3300e-004	6.3000e-005
tblVehicleEF	SBUS	3.5510e-003	1.0900e-003
tblVehicleEF	SBUS	0.03	0.01
tblVehicleEF	SBUS	1.52	0.58
tblVehicleEF	SBUS	2.0480e-003	6.2800e-004
tblVehicleEF	SBUS	0.09	0.08
tblVehicleEF	SBUS	0.02	0.07
tblVehicleEF	SBUS	0.40	0.05
tblVehicleEF	UBUS	1.88	5.86
tblVehicleEF	UBUS	0.05	9.5110e-003
tblVehicleEF	UBUS	8.02	45.55
tblVehicleEF	UBUS	7.96	0.70
tblVehicleEF	UBUS	1,861.01	1,975.40
tblVehicleEF	UBUS	115.72	7.56
tblVehicleEF	UBUS	5.97	0.47
tblVehicleEF	UBUS	13.96	0.07
tblVehicleEF	UBUS	0.56	0.07
tblVehicleEF	UBUS	0.01	0.03
tblVehicleEF	UBUS	0.08	3.2830e-003
tblVehicleEF	UBUS	1.2270e-003	8.6000e-005
tblVehicleEF	UBUS	0.24	0.03
tblVehicleEF	UBUS	3.0000e-003	7.9830e-003
tblVehicleEF	UBUS	0.07	3.1350e-003
tblVehicleEF	UBUS	1.1280e-003	7.9000e-005
tblVehicleEF	UBUS	3.4910e-003	2.8200e-004
tblVehicleEF	UBUS	0.05	3.0090e-003
tblVehicleEF	UBUS	2.3560e-003	2.0300e-004

tblVehicleEF	UBUS	0.44	0.09
tblVehicleEF	UBUS	0.02	0.02
tblVehicleEF	UBUS	0.68	0.04
tblVehicleEF	UBUS	9.0350e-003	1.2390e-003
tblVehicleEF	UBUS	1.3030e-003	7.5000e-005
tblVehicleEF	UBUS	3.4910e-003	2.8200e-004
tblVehicleEF	UBUS	0.05	3.0090e-003
tblVehicleEF	UBUS	2.3560e-003	2.0300e-004
tblVehicleEF	UBUS	2.38	5.98
tblVehicleEF	UBUS	0.02	0.02
tblVehicleEF	UBUS	0.75	0.04
tblVehicleEF	UBUS	1.88	5.86
tblVehicleEF	UBUS	0.05	8.8330e-003
tblVehicleEF	UBUS	8.03	45.55
tblVehicleEF	UBUS	6.98	0.62
tblVehicleEF	UBUS	1,861.01	1,975.40
tblVehicleEF	UBUS	115.72	7.41
tblVehicleEF	UBUS	5.63	0.46
tblVehicleEF	UBUS	13.91	0.07
tblVehicleEF	UBUS	0.56	0.07
tblVehicleEF	UBUS	0.01	0.03
tblVehicleEF	UBUS	0.08	3.2830e-003
tblVehicleEF	UBUS	0.08	3.2830e-003
tblVehicleEF	UBUS	1.2270e-003	8.6000e-005
tblVehicleEF	UBUS	0.24	0.03
tblVehicleEF	UBUS	3.0000e-003	7.9830e-003
tblVehicleEF	UBUS	0.07	3.1350e-003

tblVehicleEF	UBUS	1.1280e-003	7.9000e-005
tblVehicleEF	UBUS	5.0250e-003	4.1900e-004
tblVehicleEF	UBUS	0.06	3.1760e-003
tblVehicleEF	UBUS	3.2640e-003	2.9600e-004
tblVehicleEF	UBUS	0.45	0.09
tblVehicleEF	UBUS	0.02	0.01
tblVehicleEF	UBUS	0.63	0.04
tblVehicleEF	UBUS	9.0350e-003	1.2390e-003
tblVehicleEF	UBUS	1.2860e-003	7.3000e-005
tblVehicleEF	UBUS	5.0250e-003	4.1900e-004
tblVehicleEF	UBUS	0.06	3.1760e-003
tblVehicleEF	UBUS	3.2640e-003	2.9600e-004
tblVehicleEF	UBUS	2.38	5.98
tblVehicleEF	UBUS	0.02	0.01
tblVehicleEF	UBUS	0.69	0.04
tblVehicleEF	UBUS	1.88	5.86
tblVehicleEF	UBUS	0.05	9.6600e-003
tblVehicleEF	UBUS	8.01	45.55
tblVehicleEF	UBUS	8.14	0.72
tblVehicleEF	UBUS	1,861.01	1,975.40
tblVehicleEF	UBUS	115.72	7.58
tblVehicleEF	UBUS	5.86	0.46
tblVehicleEF	UBUS	13.97	0.07
tblVehicleEF	UBUS	0.56	0.07
tblVehicleEF	UBUS	0.01	0.03
tblVehicleEF	UBUS	0.08	3.2830e-003
tblVehicleEF	UBUS	1.2270e-003	8.6000e-005

tblVehicleEF	UBUS	0.24	0.03
tblVehicleEF	UBUS	3.0000e-003	7.9830e-003
tblVehicleEF	UBUS	0.07	3.1350e-003
tblVehicleEF	UBUS	1.1280e-003	7.9000e-005
tblVehicleEF	UBUS	3.6960e-003	2.9500e-004
tblVehicleEF	UBUS	0.06	3.3430e-003
tblVehicleEF	UBUS	2.3270e-003	1.9900e-004
tblVehicleEF	UBUS	0.44	0.09
tblVehicleEF	UBUS	0.02	0.02
tblVehicleEF	UBUS	0.69	0.04
tblVehicleEF	UBUS	9.0350e-003	1.2390e-003
tblVehicleEF	UBUS	1.3060e-003	7.5000e-005
tblVehicleEF	UBUS	3.6960e-003	2.9500e-004
tblVehicleEF	UBUS	0.06	3.3430e-003
tblVehicleEF	UBUS	2.3270e-003	1.9900e-004
tblVehicleEF	UBUS	2.38	5.98
tblVehicleEF	UBUS	0.02	0.02
tblVehicleEF	UBUS	0.76	0.05
tblVehicleTrips	PB_TP	44.00	43.00
tblVehicleTrips	PR_TP	38.00	39.00
tblVehicleTrips	ST_TR	6.39	4.97
tblVehicleTrips	ST_TR	22.75	0.00
tblVehicleTrips	ST_TR	4.31	4.97
tblVehicleTrips	ST_TR	20.87	0.00
tblVehicleTrips	ST_TR	94.36	67.14
tblVehicleTrips	ST_TR	9.10	0.00
tblVehicleTrips	SU_TR	5.86	4.97

tblVehicleTrips	SU_TR	16.74	0.00
tblVehicleTrips	SU_TR	3.43	4.97
tblVehicleTrips	SU_TR	26.73	0.00
tblVehicleTrips	SU_TR	72.16	67.14
tblVehicleTrips	SU_TR	13.60	0.00
tblVehicleTrips	WD_TR	6.65	4.97
tblVehicleTrips	WD_TR	1.89	0.00
tblVehicleTrips	WD_TR	4.18	4.97
tblVehicleTrips	WD_TR	32.93	0.00
tblVehicleTrips	WD_TR	89.95	67.14
tblVehicleTrips	WD_TR	33.82	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					
2022	17.0520	146.2888	148.8943	0.4447	29.9754	4.6925	34.6679	8.8738	4.3557	13.2294	0.0000	44,772.2077	44,772.2077	6.0042	0.0000	44,922.3119
2023	20.1334	128.5490	144.0871	0.4406	34.7078	4.2776	38.9854	10.0361	3.9672	14.0032	0.0000	44,329.4042	44,329.4042	6.0570	0.0000	44,480.8276
2024	7.0460	39.3713	67.4395	0.2421	16.7121	0.8312	17.5432	4.4763	0.7849	5.2613	0.0000	24,539.6347	24,539.6347	1.3721	0.0000	24,573.9366
2025	39.8344	40.6832	75.6282	0.2684	19.6630	0.8542	20.5171	5.2590	0.8114	6.0704	0.0000	27,137.1398	27,137.1398	1.4233	0.0000	27,172.7225
2026	39.5753	40.2372	72.4554	0.2625	19.6631	0.8493	20.5123	5.2590	0.8069	6.0659	0.0000	26,551.9156	26,551.9156	1.3875	0.0000	26,586.6018
2027	43.9803	62.7319	109.9516	0.4525	36.3753	0.9639	37.3392	9.7354	0.9132	10.6486	0.0000	46,070.6642	46,070.6642	2.0068	0.0000	46,120.8332
Maximum	**43.9803**	**146.2888**	**148.8943**	**0.4525**	**36.3753**	**4.6925**	**38.9854**	**10.0361**	**4.3557**	**14.0032**	**0.0000**	**46,070.6642**	**46,070.6642**	**6.0570**	**0.0000**	**46,120.8332**

2.1 Overall Construction (Maximum Daily Emission)

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2022	10.3694	86.2883	160.2406	0.4447	18.7148	0.6573	19.3721	5.4188	0.6341	6.0528	0.0000	44,772.2077	44,772.2077	6.0042	0.0000	44,922.3119
2023	13.8404	75.1530	158.3006	0.4406	22.2179	0.5879	22.8058	6.2793	0.5682	6.8475	0.0000	44,329.4042	44,329.4042	6.0570	0.0000	44,480.8276
2024	6.1514	36.4224	69.4698	0.2421	13.0140	0.2266	13.2405	3.5686	0.2167	3.7853	0.0000	24,539.6347	24,539.6347	1.3721	0.0000	24,573.9366
2025	38.8084	38.6070	77.7790	0.2684	15.2979	0.2469	15.5448	4.1875	0.2355	4.4230	0.0000	27,137.1398	27,137.1398	1.4233	0.0000	27,172.7225
2026	38.5493	38.1611	74.6062	0.2625	15.2979	0.2420	15.5400	4.1875	0.2310	4.4185	0.0000	26,551.9156	26,551.9156	1.3875	0.0000	26,586.6018
2027	42.9542	60.6557	112.1024	0.4525	28.3121	0.3567	28.6687	7.7562	0.3373	8.0935	0.0000	46,070.6642	46,070.6642	2.0068	0.0000	46,120.8332
Maximum	**42.9542**	**86.2883**	**160.2406**	**0.4525**	**28.3121**	**0.6573**	**28.6687**	**7.7562**	**0.6341**	**8.0935**	**0.0000**	**46,070.6642**	**46,070.6642**	**6.0570**	**0.0000**	**46,120.8332**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**10.11**	**26.77**	**-5.50**	**0.00**	**28.16**	**81.41**	**32.08**	**28.05**	**80.90**	**39.18**	**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	354.2038	26.3208	717.0158	1.5790		93.2144	93.2144		93.2144	93.2144	11,362.0720	22,014.5448	33,376.6168	34.0574	0.7712	34,457.8616
Energy	0.4108	3.5540	1.8154	0.0224		0.2838	0.2838		0.2838	0.2838		4,481.0009	4,481.0009	0.0859	0.0822	4,507.6293
Mobile	12.6413	26.4715	136.6057	0.4350	45.8543	0.6481	46.5023	12.2481	0.3026	12.5508		45,078.8065	45,078.8065	2.8786		45,150.7702
Total	**367.2559**	**56.3463**	**855.4370**	**2.0364**	**45.8543**	**94.1462**	**140.0005**	**12.2481**	**93.8008**	**106.0489**	**11,362.0720**	**71,574.3521**	**82,936.4242**	**37.0218**	**0.8533**	**84,116.2610**

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	38.4733	19.2625	107.8486	0.1209		2.0195	2.0195		2.0195	2.0195	0.0000	23,298.8977	23,298.8977	0.6166	0.4238	23,440.6152
Energy	0.3165	2.7429	1.4292	0.0173		0.2187	0.2187		0.2187	0.2187		3,453.2105	3,453.2105	0.0662	0.0633	3,473.7312
Mobile	12.6413	26.4715	136.6057	0.4350	45.8543	0.6481	46.5023	12.2481	0.3026	12.5508		45,078.8065	45,078.8065	2.8786		45,150.7702
Total	**51.4312**	**48.4770**	**245.8835**	**0.5732**	**45.8543**	**2.8863**	**48.7405**	**12.2481**	**2.5408**	**14.7890**	**0.0000**	**71,830.9146**	**71,830.9146**	**3.5613**	**0.4872**	**72,065.1166**

	ROG	NOx	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	**86.00**	**13.97**	**71.26**	**71.85**	**0.00**	**96.93**	**65.19**	**0.00**	**97.29**	**86.05**	**100.00**	**-0.36**	**13.39**	**90.38**	**42.91**	**14.33**

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	2/21/2022	3/18/2022	5	20	
2	Demolition (Crusher Use)	Demolition	3/7/2022	3/18/2022	5	10	
3	Grading	Grading	3/21/2022	2/17/2023	5	240	
4	Grading (Sheet Piling)	Grading	11/26/2022	2/17/2023	5	60	
5	Building Construction	Building Construction	8/8/2022	2/12/2027	5	1180	
6	Building Construction (Pile Rig Use)	Building Construction	2/11/2027	2/12/2027	5	2	
7	Paving	Paving	12/26/2022	2/17/2023	5	40	
8	Paving (Crane Use)	Paving	2/13/2023	2/17/2023	5	5	
9	Architectural Coating	Architectural Coating	12/1/2025	2/12/2027	5	315	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 1200

Acres of Paving: 18.76

Residential Indoor: 3,093,580; Residential Outdoor: 1,031,193; Non-Residential Indoor: 43,152; Non-Residential Outdoor: 14,384; Striped Parking Area: 49,639 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Air Compressors	1	8.00	78	0.48

Demolition	Concrete/Industrial Saws	2	8.00	81	0.73
Demolition	Excavators	1	8.00	158	0.38
Demolition	Rubber Tired Dozers	1	8.00	247	0.40
Demolition	Sweepers/Scrubbers	1	8.00	64	0.46
Demolition	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Grading	Concrete/Industrial Saws	1	6.00	81	0.73
Grading	Excavators	2	8.00	158	0.38
Grading	Forklifts	1	6.00	89	0.20
Grading	Graders	2	8.00	187	0.41
Grading	Rollers	2	8.00	80	0.38
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Scrapers	4	8.00	367	0.48
Grading	Sweepers/Scrubbers	1	8.00	64	0.46
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Building Construction	Concrete/Industrial Saws	1	6.00	81	0.73
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Architectural Coating	Air Compressors	2	6.00	78	0.48
Demolition (Crusher Use)	Crushing/Proc. Equipment	1	8.00	85	0.78
Grading	Plate Compactors	0		8	0.43
Grading (Sheet Piling)	Other Construction Equipment	1	8.00	630	0.50

Building Construction (Pile Rig Use)	Other Construction Equipment	1	8.00	630	0.50
Paving (Crane Use)	Cranes	1	8.00	231	0.29
Demolition (Crusher Use)	Concrete/Industrial Saws	0	8.00	81	0.73
Building Construction (Pile Rig Use)	Cranes	0	7.00	231	0.29
Demolition (Crusher Use)	Excavators	0	8.00	158	0.38
Grading (Sheet Piling)	Excavators	0	8.00	158	0.38
Building Construction (Pile Rig Use)	Forklifts	0	8.00	89	0.20
Building Construction (Pile Rig Use)	Generator Sets	0	8.00	84	0.74
Grading (Sheet Piling)	Graders	0	8.00	187	0.41
Paving (Crane Use)	Pavers	0	8.00	130	0.42
Paving (Crane Use)	Paving Equipment	0	8.00	132	0.36
Paving (Crane Use)	Rollers	0	8.00	80	0.38
Demolition (Crusher Use)	Rubber Tired Dozers	0	8.00	247	0.40
Grading (Sheet Piling)	Rubber Tired Dozers	0	8.00	247	0.40
Grading (Sheet Piling)	Scrapers	0	8.00	367	0.48
Building Construction (Pile Rig Use)	Tractors/Loaders/Backhoes	0	7.00	97	0.37
Grading (Sheet Piling)	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Building Construction (Pile Rig Use)	Welders	0	8.00	46	0.45

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	8	20.00	0.00	1,466.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	16	40.00	0.00	15,000.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	10	1,321.00	304.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	2	264.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Demolition (Crusher Use)	1	3.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading (Sheet Piling)	1	3.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction (Pile Rig Use)	1	1,321.00	304.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving (Crane Use)	1	3.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Replace Ground Cover

Water Exposed Area

Water Unpaved Roads

Reduce Vehicle Speed on Unpaved Roads

Clean Paved Roads

3.2 Demolition - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					15.8633	0.0000	15.8633	2.4018	0.0000	2.4018			0.0000			0.0000
Off-Road	2.5504	23.2051	22.9775	0.0389		1.2133	1.2133		1.1490	1.1490		3,736.2983	3,736.2983	0.7928		3,756.1172
Total	**2.5504**	**23.2051**	**22.9775**	**0.0389**	**15.8633**	**1.2133**	**17.0766**	**2.4018**	**1.1490**	**3.5508**		**3,736.2983**	**3,736.2983**	**0.7928**		**3,756.1172**

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	0.5816	18.2654	4.5634	0.0564	1.2817	0.0524	1.3342	0.3514	0.0502	0.4015		6,131.0683	6,131.0683	0.4147		6,141.4368
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0803	0.0532	0.7432	2.2100e-003	0.2236	1.7500e-003	0.2253	0.0593	1.6100e-003	0.0609		219.7425	219.7425	6.0600e-003		219.8941
Total	**0.6619**	**18.3186**	**5.3066**	**0.0587**	**1.5053**	**0.0542**	**1.5595**	**0.4106**	**0.0518**	**0.4624**		**6,350.8107**	**6,350.8107**	**0.4208**		**6,361.3309**

3.2 Demolition - 2022

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					5.8773	0.0000	5.8773	0.8899	0.0000	0.8899			0.0000			0.0000
Off-Road	0.8193	13.2323	24.9869	0.0389		0.1432	0.1432		0.1360	0.1360	0.0000	3,736.2983	3,736.2983	0.7928		3,756.1172
Total	**0.8193**	**13.2323**	**24.9869**	**0.0389**	**5.8773**	**0.1432**	**6.0205**	**0.8899**	**0.1360**	**1.0259**	**0.0000**	**3,736.2983**	**3,736.2983**	**0.7928**		**3,756.1172**

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	0.5816	18.2654	4.5634	0.0564	1.0298	0.0524	1.0822	0.2895	0.0502	0.3397		6,131.0683	6,131.0683	0.4147		6,141.4368
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0803	0.0532	0.7432	2.2100e-003	0.1730	1.7500e-003	0.1748	0.0469	1.6100e-003	0.0485		219.7425	219.7425	6.0600e-003		219.8941
Total	**0.6619**	**18.3186**	**5.3066**	**0.0587**	**1.2028**	**0.0542**	**1.2570**	**0.3364**	**0.0518**	**0.3882**		**6,350.8107**	**6,350.8107**	**0.4208**		**6,361.3309**

3.3 Demolition (Crusher Use) - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.4794	3.2250	4.3312	7.0200e-003		0.1801	0.1801		0.1801	0.1801		664.5301	664.5301	0.0433		665.6118
Total	**0.4794**	**3.2250**	**4.3312**	**7.0200e-003**		**0.1801**	**0.1801**		**0.1801**	**0.1801**		**664.5301**	**664.5301**	**0.0433**		**665.6118**

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	0.0121	7.9800e-003	0.1115	3.3000e-004	0.0335	2.6000e-004	0.0338	8.8900e-003	2.4000e-004	9.1300e-003		32.9614	32.9614	9.1000e-004		32.9841
Total	**0.0121**	**7.9800e-003**	**0.1115**	**3.3000e-004**	**0.0335**	**2.6000e-004**	**0.0338**	**8.8900e-003**	**2.4000e-004**	**9.1300e-003**		**32.9614**	**32.9614**	**9.1000e-004**		**32.9841**

3.3 Demolition (Crusher Use) - 2022

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.1286	2.5024	4.3265	7.0200e-003		9.3500e-003	9.3500e-003		9.3500e-003	9.3500e-003	0.0000	664.5301	664.5301	0.0433		665.6118
Total	**0.1286**	**2.5024**	**4.3265**	**7.0200e-003**		**9.3500e-003**	**9.3500e-003**		**9.3500e-003**	**9.3500e-003**	**0.0000**	**664.5301**	**664.5301**	**0.0433**		**665.6118**

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	0.0121	7.9800e-003	0.1115	3.3000e-004	0.0260	2.6000e-004	0.0262	7.0300e-003	2.4000e-004	7.2700e-003		32.9614	32.9614	9.1000e-004		32.9841
Total	**0.0121**	**7.9800e-003**	**0.1115**	**3.3000e-004**	**0.0260**	**2.6000e-004**	**0.0262**	**7.0300e-003**	**2.4000e-004**	**7.2700e-003**		**32.9614**	**32.9614**	**9.1000e-004**		**32.9841**

3.4 Grading - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					11.3811	0.0000	11.3811	3.8913	0.0000	3.8913			0.0000			0.0000
Off-Road	6.5577	70.1348	52.7664	0.1127		2.9848	2.9848		2.7550	2.7550		10,903.1829	10,903.1829	3.4068		10,988.3529
Total	**6.5577**	**70.1348**	**52.7664**	**0.1127**	**11.3811**	**2.9848**	**14.3659**	**3.8913**	**2.7550**	**6.6464**		**10,903.1829**	**10,903.1829**	**3.4068**		**10,988.3529**

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	0.4959	15.5742	3.8910	0.0481	1.2340	0.0447	1.2787	0.3342	0.0428	0.3770		5,227.7185	5,227.7185	0.3536		5,236.5594
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1606	0.1065	1.4864	4.4100e-003	0.4471	3.5000e-003	0.4506	0.1186	3.2200e-003	0.1218		439.4849	439.4849	0.0121		439.7882
Total	**0.6565**	**15.6806**	**5.3774**	**0.0525**	**1.6811**	**0.0482**	**1.7293**	**0.4528**	**0.0460**	**0.4988**		**5,667.2034**	**5,667.2034**	**0.3658**		**5,676.3476**

3.4 Grading - 2022

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					4.2167	0.0000	4.2167	1.4417	0.0000	1.4417			0.0000			0.0000
Off-Road	1.7658	16.5485	59.5426	0.1127		0.2938	0.2938		0.2843	0.2843	0.0000	10,903.1829	10,903.1829	3.4068		10,988.3529
Total	**1.7658**	**16.5485**	**59.5426**	**0.1127**	**4.2167**	**0.2938**	**4.5105**	**1.4417**	**0.2843**	**1.7260**	**0.0000**	**10,903.1829**	**10,903.1829**	**3.4068**		**10,988.3529**

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	0.4959	15.5742	3.8910	0.0481	0.9824	0.0447	1.0272	0.2725	0.0428	0.3153		5,227.7185	5,227.7185	0.3536		5,236.5594
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1606	0.1065	1.4864	4.4100e-003	0.3460	3.5000e-003	0.3495	0.0938	3.2200e-003	0.0970		439.4849	439.4849	0.0121		439.7882
Total	**0.6565**	**15.6806**	**5.3774**	**0.0525**	**1.3285**	**0.0482**	**1.3767**	**0.3663**	**0.0460**	**0.4122**		**5,667.2034**	**5,667.2034**	**0.3658**		**5,676.3476**

3.4 Grading - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					11.3811	0.0000	11.3811	3.8913	0.0000	3.8913			0.0000			0.0000
Off-Road	6.0954	63.3195	51.2425	0.1127		2.6515	2.6515		2.4471	2.4471		10,902.5046	10,902.5046	3.4042		10,987.6104
Total	**6.0954**	**63.3195**	**51.2425**	**0.1127**	**11.3811**	**2.6515**	**14.0326**	**3.8913**	**2.4471**	**6.3384**		**10,902.5046**	**10,902.5046**	**3.4042**		**10,987.6104**

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	0.3253	10.2744	3.5518	0.0460	5.9328	0.0186	5.9514	1.4876	0.0178	1.5054		5,009.7801	5,009.7801	0.3291		5,018.0085
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1508	0.0963	1.3689	4.2500e-003	0.4471	3.4000e-003	0.4505	0.1186	3.1300e-003	0.1217		423.3928	423.3928	0.0109		423.6662
Total	**0.4761**	**10.3707**	**4.9207**	**0.0503**	**6.3799**	**0.0220**	**6.4019**	**1.6061**	**0.0209**	**1.6271**		**5,433.1729**	**5,433.1729**	**0.3401**		**5,441.6747**

3.4 Grading - 2023

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					4.2167	0.0000	4.2167	1.4417	0.0000	1.4417			0.0000			0.0000
Off-Road	1.7508	16.3447	59.5452	0.1127		0.2811	0.2811		0.2726	0.2726	0.0000	10,902.5046	10,902.5046	3.4042		10,987.6104
Total	**1.7508**	**16.3447**	**59.5452**	**0.1127**	**4.2167**	**0.2811**	**4.4978**	**1.4417**	**0.2726**	**1.7143**	**0.0000**	**10,902.5046**	**10,902.5046**	**3.4042**		**10,987.6104**

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	0.3253	10.2744	3.5518	0.0460	4.4596	0.0186	4.4782	1.1260	0.0178	1.1438		5,009.7801	5,009.7801	0.3291		5,018.0085
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1508	0.0963	1.3689	4.2500e-003	0.3460	3.4000e-003	0.3494	0.0938	3.1300e-003	0.0969		423.3928	423.3928	0.0109		423.6662
Total	**0.4761**	**10.3707**	**4.9207**	**0.0503**	**4.8057**	**0.0220**	**4.8277**	**1.2197**	**0.0209**	**1.2407**		**5,433.1729**	**5,433.1729**	**0.3401**		**5,441.6747**

3.5 Grading (Sheet Piling) - 2022

Unmitigated Construction On-Site

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

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	0.0121	7.9800e-003	0.1115	3.3000e-004	0.0335	2.6000e-004	0.0338	8.8900e-003	2.4000e-004	9.1300e-003		32.9614	32.9614	9.1000e-004		32.9841
Total	**0.0121**	**7.9800e-003**	**0.1115**	**3.3000e-004**	**0.0335**	**2.6000e-004**	**0.0338**	**8.8900e-003**	**2.4000e-004**	**9.1300e-003**		**32.9614**	**32.9614**	**9.1000e-004**		**32.9841**

3.5 Grading (Sheet Piling) - 2022

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**

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	0.0121	7.9800e-003	0.1115	3.3000e-004	0.0260	2.6000e-004	0.0262	7.0300e-003	2.4000e-004	7.2700e-003		32.9614	32.9614	9.1000e-004		32.9841
Total	**0.0121**	**7.9800e-003**	**0.1115**	**3.3000e-004**	**0.0260**	**2.6000e-004**	**0.0262**	**7.0300e-003**	**2.4000e-004**	**7.2700e-003**		**32.9614**	**32.9614**	**9.1000e-004**		**32.9841**

3.5 Grading (Sheet Piling) - 2023

Unmitigated Construction On-Site

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

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	0.0113	7.2200e-003	0.1027	3.2000e-004	0.0335	2.6000e-004	0.0338	8.8900e-003	2.3000e-004	9.1300e-003		31.7545	31.7545	8.2000e-004		31.7750
Total	**0.0113**	**7.2200e-003**	**0.1027**	**3.2000e-004**	**0.0335**	**2.6000e-004**	**0.0338**	**8.8900e-003**	**2.3000e-004**	**9.1300e-003**		**31.7545**	**31.7545**	**8.2000e-004**		**31.7750**

3.5 Grading (Sheet Piling) - 2023

Mitigated Construction On-Site

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

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	0.0113	7.2200e-003	0.1027	3.2000e-004	0.0260	2.6000e-004	0.0262	7.0300e-003	2.3000e-004	7.2700e-003		31.7545	31.7545	8.2000e-004		31.7750
Total	**0.0113**	**7.2200e-003**	**0.1027**	**3.2000e-004**	**0.0260**	**2.6000e-004**	**0.0262**	**7.0300e-003**	**2.3000e-004**	**7.2700e-003**		**31.7545**	**31.7545**	**8.2000e-004**		**31.7750**

3.6 Building Construction - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.9745	17.7165	19.1119	0.0316		0.9216	0.9216		0.8738	0.8738		2,998.8321	2,998.8321	0.6362		3,014.7369
Total	**1.9745**	**17.7165**	**19.1119**	**0.0316**		**0.9216**	**0.9216**		**0.8738**	**0.8738**		**2,998.8321**	**2,998.8321**	**0.6362**		**3,014.7369**

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	0.8672	28.0684	7.3006	0.0774	1.9463	0.0528	1.9991	0.5604	0.0505	0.6108		8,283.5710	8,283.5710	0.4754		8,295.4551
Worker	5.3041	3.5157	49.0887	0.1457	14.7657	0.1156	14.8813	3.9159	0.1065	4.0224		14,513.9897	14,513.9897	0.4006		14,524.0045
Total	**6.1714**	**31.5841**	**56.3893**	**0.2231**	**16.7120**	**0.1684**	**16.8803**	**4.4763**	**0.1569**	**4.6332**		**22,797.5607**	**22,797.5607**	**0.8760**		**22,819.4596**

3.6 Building Construction - 2022

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.8525	12.3878	20.9667	0.0316		0.1080	0.1080		0.1080	0.1080	0.0000	2,998.8321	2,998.8321	0.6362		3,014.7369
Total	**0.8525**	**12.3878**	**20.9667**	**0.0316**		**0.1080**	**0.1080**		**0.1080**	**0.1080**	**0.0000**	**2,998.8321**	**2,998.8321**	**0.6362**		**3,014.7369**

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	0.8672	28.0684	7.3006	0.0774	1.5858	0.0528	1.6385	0.4719	0.0505	0.5223		8,283.5710	8,283.5710	0.4754		8,295.4551
Worker	5.3041	3.5157	49.0887	0.1457	11.4281	0.1156	11.5437	3.0967	0.1065	3.2032		14,513.9897	14,513.9897	0.4006		14,524.0045
Total	**6.1714**	**31.5841**	**56.3893**	**0.2231**	**13.0139**	**0.1684**	**13.1822**	**3.5686**	**0.1569**	**3.7255**		**22,797.5607**	**22,797.5607**	**0.8760**		**22,819.4596**

3.6 Building Construction - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.8231	16.3231	18.9870	0.0316		0.7959	0.7959		0.7546	0.7546		2,999.7092	2,999.7092	0.6298		3,015.4528
Total	**1.8231**	**16.3231**	**18.9870**	**0.0316**		**0.7959**	**0.7959**		**0.7546**	**0.7546**		**2,999.7092**	**2,999.7092**	**0.6298**		**3,015.4528**

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	0.6434	21.2972	6.5933	0.0749	1.9463	0.0246	1.9709	0.5604	0.0235	0.5839		8,022.7858	8,022.7858	0.4213		8,033.3170
Worker	4.9810	3.1808	45.2064	0.1403	14.7657	0.1123	14.8780	3.9159	0.1034	4.0193		13,982.5471	13,982.5471	0.3612		13,991.5768
Total	**5.6244**	**24.4781**	**51.7997**	**0.2152**	**16.7120**	**0.1369**	**16.8489**	**4.4763**	**0.1269**	**4.6032**		**22,005.3329**	**22,005.3329**	**0.7824**		**22,024.8938**

3.6 Building Construction - 2023

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.8302	12.3454	20.9488	0.0316		0.0993	0.0993		0.0993	0.0993	0.0000	2,999.7092	2,999.7092	0.6298		3,015.4528
Total	**0.8302**	**12.3454**	**20.9488**	**0.0316**		**0.0993**	**0.0993**		**0.0993**	**0.0993**	**0.0000**	**2,999.7092**	**2,999.7092**	**0.6298**		**3,015.4528**

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	0.6434	21.2972	6.5933	0.0749	1.5858	0.0246	1.6104	0.4719	0.0235	0.4954		8,022.7858	8,022.7858	0.4213		8,033.3170
Worker	4.9810	3.1808	45.2064	0.1403	11.4281	0.1123	11.5404	3.0967	0.1034	3.2001		13,982.5471	13,982.5471	0.3612		13,991.5768
Total	**5.6244**	**24.4781**	**51.7997**	**0.2152**	**13.0139**	**0.1369**	**13.1508**	**3.5686**	**0.1269**	**3.6955**		**22,005.3329**	**22,005.3329**	**0.7824**		**22,024.8938**

3.6 Building Construction - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.7062	15.2545	18.9044	0.0316		0.6962	0.6962		0.6598	0.6598		3,000.1974	3,000.1974	0.6255		3,015.8341
Total	**1.7062**	**15.2545**	**18.9044**	**0.0316**		**0.6962**	**0.6962**		**0.6598**	**0.6598**		**3,000.1974**	**3,000.1974**	**0.6255**		**3,015.8341**

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	0.6279	21.2160	6.3924	0.0745	1.9464	0.0243	1.9707	0.5604	0.0232	0.5836		7,990.2275	7,990.2275	0.4153		8,000.6087
Worker	4.7119	2.9008	42.1428	0.1359	14.7657	0.1107	14.8763	3.9159	0.1019	4.0178		13,549.2099	13,549.2099	0.3314		13,557.4939
Total	**5.3398**	**24.1168**	**48.5352**	**0.2105**	**16.7121**	**0.1350**	**16.8470**	**4.4763**	**0.1251**	**4.6015**		**21,539.4374**	**21,539.4374**	**0.7466**		**21,558.1025**

3.6 Building Construction - 2024

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.8116	12.3056	20.9346	0.0316		0.0916	0.0916		0.0916	0.0916	0.0000	3,000.1974	3,000.1974	0.6255		3,015.8341
Total	**0.8116**	**12.3056**	**20.9346**	**0.0316**		**0.0916**	**0.0916**		**0.0916**	**0.0916**	**0.0000**	**3,000.1974**	**3,000.1974**	**0.6255**		**3,015.8341**

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	0.6279	21.2160	6.3924	0.0745	1.5859	0.0243	1.6102	0.4719	0.0232	0.4951		7,990.2275	7,990.2275	0.4153		8,000.6087
Worker	4.7119	2.9008	42.1428	0.1359	11.4281	0.1107	11.5388	3.0967	0.1019	3.1986		13,549.2099	13,549.2099	0.3314		13,557.4939
Total	**5.3398**	**24.1168**	**48.5352**	**0.2105**	**13.0140**	**0.1350**	**13.1489**	**3.5686**	**0.1251**	**3.6937**		**21,539.4374**	**21,539.4374**	**0.7466**		**21,558.1025**

3.6 Building Construction - 2025

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.5888	14.1717	18.8183	0.0317		0.5972	0.5972		0.5659	0.5659		3,000.9736	3,000.9736	0.6205		3,016.4862
Total	**1.5888**	**14.1717**	**18.8183**	**0.0317**		**0.5972**	**0.5972**		**0.5659**	**0.5659**		**3,000.9736**	**3,000.9736**	**0.6205**		**3,016.4862**

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	0.6121	21.0359	6.2282	0.0741	1.9464	0.0239	1.9704	0.5604	0.0229	0.5833		7,946.2007	7,946.2007	0.4094		7,956.4363
Worker	4.4741	2.6541	39.1411	0.1306	14.7657	0.1084	14.8741	3.9159	0.0998	4.0157		13,024.2010	13,024.2010	0.3023		13,031.7577
Total	**5.0862**	**23.6901**	**45.3693**	**0.2047**	**16.7121**	**0.1323**	**16.8444**	**4.4764**	**0.1226**	**4.5990**		**20,970.4017**	**20,970.4017**	**0.7117**		**20,988.1940**

3.6 Building Construction - 2025

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.7955	12.2669	20.9226	0.0317		0.0850	0.0850		0.0850	0.0850	0.0000	3,000.9736	3,000.9736	0.6205		3,016.4862
Total	**0.7955**	**12.2669**	**20.9226**	**0.0317**		**0.0850**	**0.0850**		**0.0850**	**0.0850**	**0.0000**	**3,000.9736**	**3,000.9736**	**0.6205**		**3,016.4862**

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	0.6121	21.0359	6.2282	0.0741	1.5859	0.0239	1.6098	0.4719	0.0229	0.4948		7,946.2007	7,946.2007	0.4094		7,956.4363
Worker	4.4741	2.6541	39.1411	0.1306	11.4281	0.1084	11.5365	3.0967	0.0998	3.1965		13,024.2010	13,024.2010	0.3023		13,031.7577
Total	**5.0862**	**23.6901**	**45.3693**	**0.2047**	**13.0140**	**0.1323**	**13.1463**	**3.5686**	**0.1226**	**3.6913**		**20,970.4017**	**20,970.4017**	**0.7117**		**20,988.1940**

3.6 Building Construction - 2026

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.5888	14.1717	18.8183	0.0317		0.5972	0.5972		0.5659	0.5659		3,000.9736	3,000.9736	0.6205		3,016.4862
Total	**1.5888**	**14.1717**	**18.8183**	**0.0317**		**0.5972**	**0.5972**		**0.5659**	**0.5659**		**3,000.9736**	**3,000.9736**	**0.6205**		**3,016.4862**

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	0.5983	20.8407	6.1026	0.0736	1.9465	0.0235	1.9699	0.5604	0.0224	0.5829		7,903.9237	7,903.9237	0.4036		7,914.0141
Worker	4.2697	2.4452	36.6015	0.1261	14.7657	0.1047	14.8704	3.9159	0.0964	4.0123		12,571.6880	12,571.6880	0.2772		12,578.6185
Total	**4.8680**	**23.2859**	**42.7041**	**0.1997**	**16.7122**	**0.1282**	**16.8403**	**4.4764**	**0.1188**	**4.5952**		**20,475.6117**	**20,475.6117**	**0.6808**		**20,492.6326**

3.6 Building Construction - 2026

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.7955	12.2669	20.9226	0.0317		0.0850	0.0850		0.0850	0.0850	0.0000	3,000.9736	3,000.9736	0.6205		3,016.4862
Total	**0.7955**	**12.2669**	**20.9226**	**0.0317**		**0.0850**	**0.0850**		**0.0850**	**0.0850**	**0.0000**	**3,000.9736**	**3,000.9736**	**0.6205**		**3,016.4862**

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	0.5983	20.8407	6.1026	0.0736	1.5860	0.0235	1.6094	0.4720	0.0224	0.4944		7,903.9237	7,903.9237	0.4036		7,914.0141
Worker	4.2697	2.4452	36.6015	0.1261	11.4281	0.1047	11.5328	3.0967	0.0964	3.1931		12,571.6880	12,571.6880	0.2772		12,578.6185
Total	**4.8680**	**23.2859**	**42.7041**	**0.1997**	**13.0140**	**0.1282**	**13.1422**	**3.5687**	**0.1188**	**3.6875**		**20,475.6117**	**20,475.6117**	**0.6808**		**20,492.6326**

3.6 Building Construction - 2027

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.5888	14.1717	18.8183	0.0317		0.5972	0.5972		0.5659	0.5659		3,000.9736	3,000.9736	0.6205		3,016.4862
Total	**1.5888**	**14.1717**	**18.8183**	**0.0317**		**0.5972**	**0.5972**		**0.5659**	**0.5659**		**3,000.9736**	**3,000.9736**	**0.6205**		**3,016.4862**

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	0.5867	20.6532	6.0014	0.0732	1.9465	0.0230	1.9696	0.5605	0.0220	0.5825		7,866.0952	7,866.0952	0.3978		7,876.0411
Worker	4.0698	2.2560	34.3261	0.1220	14.7657	0.0990	14.8646	3.9159	0.0911	4.0070		12,171.1122	12,171.1122	0.2545		12,177.4749
Total	**4.6565**	**22.9092**	**40.3275**	**0.1953**	**16.7122**	**0.1220**	**16.8342**	**4.4764**	**0.1131**	**4.5894**		**20,037.2074**	**20,037.2074**	**0.6523**		**20,053.5160**

3.6 Building Construction - 2027

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.7955	12.2669	20.9226	0.0317		0.0850	0.0850		0.0850	0.0850	0.0000	3,000.9736	3,000.9736	0.6205		3,016.4862
Total	**0.7955**	**12.2669**	**20.9226**	**0.0317**		**0.0850**	**0.0850**		**0.0850**	**0.0850**	**0.0000**	**3,000.9736**	**3,000.9736**	**0.6205**		**3,016.4862**

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	0.5867	20.6532	6.0014	0.0732	1.5860	0.0230	1.6090	0.4720	0.0220	0.4940		7,866.0952	7,866.0952	0.3978		7,876.0411
Worker	4.0698	2.2560	34.3261	0.1220	11.4281	0.0990	11.5270	3.0967	0.0911	3.1878		12,171.1122	12,171.1122	0.2545		12,177.4749
Total	**4.6565**	**22.9092**	**40.3275**	**0.1953**	**13.0141**	**0.1220**	**13.1361**	**3.5687**	**0.1131**	**3.6817**		**20,037.2074**	**20,037.2074**	**0.6523**		**20,053.5160**

3.7 Building Construction (Pile Rig Use) - 2027

Unmitigated Construction On-Site

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

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	0.5867	20.6532	6.0014	0.0732	1.9465	0.0230	1.9696	0.5605	0.0220	0.5825		7,866.0952	7,866.0952	0.3978		7,876.0411
Worker	4.0698	2.2560	34.3261	0.1220	14.7657	0.0990	14.8646	3.9159	0.0911	4.0070		12,171.1122	12,171.1122	0.2545		12,177.4749
Total	**4.6565**	**22.9092**	**40.3275**	**0.1953**	**16.7122**	**0.1220**	**16.8342**	**4.4764**	**0.1131**	**4.5894**		**20,037.2074**	**20,037.2074**	**0.6523**		**20,053.5160**

3.7 Building Construction (Pile Rig Use) - 2027

Mitigated Construction On-Site

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

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.5867	20.6532	6.0014	0.0732	1.5860	0.0230	1.6090	0.4720	0.0220	0.4940		7,866.0952	7,866.0952	0.3978		7,876.0411
Worker	4.0698	2.2560	34.3261	0.1220	11.4281	0.0990	11.5270	3.0967	0.0911	3.1878		12,171.1122	12,171.1122	0.2545		12,177.4749
Total	**4.6565**	**22.9092**	**40.3275**	**0.1953**	**13.0141**	**0.1220**	**13.1361**	**3.5687**	**0.1131**	**3.6817**		**20,037.2074**	**20,037.2074**	**0.6523**		**20,053.5160**

3.8 Paving - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.1028	11.1249	14.5805	0.0228		0.5679	0.5679		0.5225	0.5225		2,207.6603	2,207.6603	0.7140		2,225.5104
Paving	0.5168					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**1.6196**	**11.1249**	**14.5805**	**0.0228**		**0.5679**	**0.5679**		**0.5225**	**0.5225**		**2,207.6603**	**2,207.6603**	**0.7140**		**2,225.5104**

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	0.0602	0.0399	0.5574	1.6500e-003	0.1677	1.3100e-003	0.1690	0.0445	1.2100e-003	0.0457		164.8069	164.8069	4.5500e-003		164.9206
Total	**0.0602**	**0.0399**	**0.5574**	**1.6500e-003**	**0.1677**	**1.3100e-003**	**0.1690**	**0.0445**	**1.2100e-003**	**0.0457**		**164.8069**	**164.8069**	**4.5500e-003**		**164.9206**

3.8 Paving - 2022

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.3341	10.0395	17.2957	0.0228		0.0374	0.0374		0.0374	0.0374	0.0000	2,207.6603	2,207.6603	0.7140		2,225.5104
Paving	0.5168					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**0.8509**	**10.0395**	**17.2957**	**0.0228**		**0.0374**	**0.0374**		**0.0374**	**0.0374**	**0.0000**	**2,207.6603**	**2,207.6603**	**0.7140**		**2,225.5104**

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	0.0602	0.0399	0.5574	1.6500e-003	0.1298	1.3100e-003	0.1311	0.0352	1.2100e-003	0.0364		164.8069	164.8069	4.5500e-003		164.9206
Total	**0.0602**	**0.0399**	**0.5574**	**1.6500e-003**	**0.1298**	**1.3100e-003**	**0.1311**	**0.0352**	**1.2100e-003**	**0.0364**		**164.8069**	**164.8069**	**4.5500e-003**		**164.9206**

3.8 Paving - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.0327	10.1917	14.5842	0.0228		0.5102	0.5102		0.4694	0.4694		2,207.5841	2,207.5841	0.7140		2,225.4336
Paving	0.5168					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**1.5495**	**10.1917**	**14.5842**	**0.0228**		**0.5102**	**0.5102**		**0.4694**	**0.4694**		**2,207.5841**	**2,207.5841**	**0.7140**		**2,225.4336**

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	0.0566	0.0361	0.5133	1.5900e-003	0.1677	1.2800e-003	0.1689	0.0445	1.1700e-003	0.0456		158.7723	158.7723	4.1000e-003		158.8748
Total	**0.0566**	**0.0361**	**0.5133**	**1.5900e-003**	**0.1677**	**1.2800e-003**	**0.1689**	**0.0445**	**1.1700e-003**	**0.0456**		**158.7723**	**158.7723**	**4.1000e-003**		**158.8748**

3.8 Paving - 2023

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.3341	10.0395	17.2957	0.0228		0.0374	0.0374		0.0374	0.0374	0.0000	2,207.5841	2,207.5841	0.7140		2,225.4336
Paving	0.5168					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**0.8509**	**10.0395**	**17.2957**	**0.0228**		**0.0374**	**0.0374**		**0.0374**	**0.0374**	**0.0000**	**2,207.5841**	**2,207.5841**	**0.7140**		**2,225.4336**

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	0.0566	0.0361	0.5133	1.5900e-003	0.1298	1.2800e-003	0.1310	0.0352	1.1700e-003	0.0363		158.7723	158.7723	4.1000e-003		158.8748
Total	**0.0566**	**0.0361**	**0.5133**	**1.5900e-003**	**0.1298**	**1.2800e-003**	**0.1310**	**0.0352**	**1.1700e-003**	**0.0363**		**158.7723**	**158.7723**	**4.1000e-003**		**158.8748**

3.9 Paving (Crane Use) - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.3514	3.8155	1.8344	5.7700e-003		0.1593	0.1593		0.1466	0.1466		558.8192	558.8192	0.1807		563.3376
Paving	4.1344					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**4.4858**	**3.8155**	**1.8344**	**5.7700e-003**		**0.1593**	**0.1593**		**0.1466**	**0.1466**		**558.8192**	**558.8192**	**0.1807**		**563.3376**

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	0.0113	7.2200e-003	0.1027	3.2000e-004	0.0335	2.6000e-004	0.0338	8.8900e-003	2.3000e-004	9.1300e-003		31.7545	31.7545	8.2000e-004		31.7750
Total	**0.0113**	**7.2200e-003**	**0.1027**	**3.2000e-004**	**0.0335**	**2.6000e-004**	**0.0338**	**8.8900e-003**	**2.3000e-004**	**9.1300e-003**		**31.7545**	**31.7545**	**8.2000e-004**		**31.7750**

3.9 Paving (Crane Use) - 2023

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.0945	1.5241	3.0719	5.7700e-003		9.4500e-003	9.4500e-003		9.4500e-003	9.4500e-003	0.0000	558.8192	558.8192	0.1807		563.3376
Paving	4.1344					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**4.2289**	**1.5241**	**3.0719**	**5.7700e-003**		**9.4500e-003**	**9.4500e-003**		**9.4500e-003**	**9.4500e-003**	**0.0000**	**558.8192**	**558.8192**	**0.1807**		**563.3376**

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	0.0113	7.2200e-003	0.1027	3.2000e-004	0.0260	2.6000e-004	0.0262	7.0300e-003	2.3000e-004	7.2700e-003		31.7545	31.7545	8.2000e-004		31.7750
Total	**0.0113**	**7.2200e-003**	**0.1027**	**3.2000e-004**	**0.0260**	**2.6000e-004**	**0.0262**	**7.0300e-003**	**2.3000e-004**	**7.2700e-003**		**31.7545**	**31.7545**	**8.2000e-004**		**31.7750**

3.10 Architectural Coating - 2025

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	31.9236					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.3417	2.2910	3.6183	5.9400e-003		0.1030	0.1030		0.1030	0.1030		562.8961	562.8961	0.0307		563.6637
Total	**32.2653**	**2.2910**	**3.6183**	**5.9400e-003**		**0.1030**	**0.1030**		**0.1030**	**0.1030**		**562.8961**	**562.8961**	**0.0307**		**563.6637**

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	0.8942	0.5304	7.8223	0.0261	2.9509	0.0217	2.9726	0.7826	0.0199	0.8025		2,602.8683	2,602.8683	0.0604		2,604.3785
Total	**0.8942**	**0.5304**	**7.8223**	**0.0261**	**2.9509**	**0.0217**	**2.9726**	**0.7826**	**0.0199**	**0.8025**		**2,602.8683**	**2,602.8683**	**0.0604**		**2,604.3785**

3.10 Architectural Coating - 2025

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	31.9236					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1090	2.1197	3.6648	5.9400e-003		7.9200e-003	7.9200e-003		7.9200e-003	7.9200e-003	0.0000	562.8961	562.8961	0.0307		563.6637
Total	**32.0325**	**2.1197**	**3.6648**	**5.9400e-003**		**7.9200e-003**	**7.9200e-003**		**7.9200e-003**	**7.9200e-003**	**0.0000**	**562.8961**	**562.8961**	**0.0307**		**563.6637**

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	0.8942	0.5304	7.8223	0.0261	2.2839	0.0217	2.3056	0.6189	0.0199	0.6388		2,602.8683	2,602.8683	0.0604		2,604.3785
Total	**0.8942**	**0.5304**	**7.8223**	**0.0261**	**2.2839**	**0.0217**	**2.3056**	**0.6189**	**0.0199**	**0.6388**		**2,602.8683**	**2,602.8683**	**0.0604**		**2,604.3785**

3.10 Architectural Coating - 2026

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	31.9236					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.3417	2.2910	3.6183	5.9400e-003		0.1030	0.1030		0.1030	0.1030		562.8961	562.8961	0.0307		563.6637
Total	**32.2653**	**2.2910**	**3.6183**	**5.9400e-003**		**0.1030**	**0.1030**		**0.1030**	**0.1030**		**562.8961**	**562.8961**	**0.0307**		**563.6637**

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	0.8533	0.4887	7.3148	0.0252	2.9509	0.0209	2.9718	0.7826	0.0193	0.8019		2,512.4342	2,512.4342	0.0554		2,513.8193
Total	**0.8533**	**0.4887**	**7.3148**	**0.0252**	**2.9509**	**0.0209**	**2.9718**	**0.7826**	**0.0193**	**0.8019**		**2,512.4342**	**2,512.4342**	**0.0554**		**2,513.8193**

3.10 Architectural Coating - 2026

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	31.9236					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1090	2.1197	3.6648	5.9400e-003		7.9200e-003	7.9200e-003		7.9200e-003	7.9200e-003	0.0000	562.8961	562.8961	0.0307		563.6637
Total	**32.0325**	**2.1197**	**3.6648**	**5.9400e-003**		**7.9200e-003**	**7.9200e-003**		**7.9200e-003**	**7.9200e-003**	**0.0000**	**562.8961**	**562.8961**	**0.0307**		**563.6637**

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	0.8533	0.4887	7.3148	0.0252	2.2839	0.0209	2.3048	0.6189	0.0193	0.6381		2,512.4342	2,512.4342	0.0554		2,513.8193
Total	**0.8533**	**0.4887**	**7.3148**	**0.0252**	**2.2839**	**0.0209**	**2.3048**	**0.6189**	**0.0193**	**0.6381**		**2,512.4342**	**2,512.4342**	**0.0554**		**2,513.8193**

3.10 Architectural Coating - 2027

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	31.9236					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.3417	2.2910	3.6183	5.9400e-003		0.1030	0.1030		0.1030	0.1030		562.8961	562.8961	0.0307		563.6637
Total	**32.2653**	**2.2910**	**3.6183**	**5.9400e-003**		**0.1030**	**0.1030**		**0.1030**	**0.1030**		**562.8961**	**562.8961**	**0.0307**		**563.6637**

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	0.8133	0.4509	6.8600	0.0244	2.9509	0.0198	2.9707	0.7826	0.0182	0.8008		2,432.3797	2,432.3797	0.0509		2,433.6513
Total	**0.8133**	**0.4509**	**6.8600**	**0.0244**	**2.9509**	**0.0198**	**2.9707**	**0.7826**	**0.0182**	**0.8008**		**2,432.3797**	**2,432.3797**	**0.0509**		**2,433.6513**

3.10 Architectural Coating - 2027

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	31.9236					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1090	2.1197	3.6648	5.9400e-003		7.9200e-003	7.9200e-003		7.9200e-003	7.9200e-003	0.0000	562.8961	562.8961	0.0307		563.6637
Total	**32.0325**	**2.1197**	**3.6648**	**5.9400e-003**		**7.9200e-003**	**7.9200e-003**		**7.9200e-003**	**7.9200e-003**	**0.0000**	**562.8961**	**562.8961**	**0.0307**		**563.6637**

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	0.8133	0.4509	6.8600	0.0244	2.2839	0.0198	2.3037	0.6189	0.0182	0.6371		2,432.3797	2,432.3797	0.0509		2,433.6513
Total	**0.8133**	**0.4509**	**6.8600**	**0.0244**	**2.2839**	**0.0198**	**2.3037**	**0.6189**	**0.0182**	**0.6371**		**2,432.3797**	**2,432.3797**	**0.0509**		**2,433.6513**

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	12.6413	26.4715	136.6057	0.4350	45.8543	0.6481	46.5023	12.2481	0.3026	12.5508		45,078.8065	45,078.8065	2.8786		45,150.7702
Unmitigated	12.6413	26.4715	136.6057	0.4350	45.8543	0.6481	46.5023	12.2481	0.3026	12.5508		45,078.8065	45,078.8065	2.8786		45,150.7702

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Mid Rise	4,142.34	4,142.34	4142.34	14,154,998	14,154,998
City Park	0.00	0.00	0.00		
Condo/Townhouse High Rise	1,889.66	1,889.66	1889.66	6,457,262	6,457,262
Enclosed Parking with Elevator	0.00	0.00	0.00		
Health Club	0.00	0.00	0.00		
Other Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Quality Restaurant	694.87	694.87	694.87	1,011,994	1,011,994
Recreational Swimming Pool	0.00	0.00	0.00		
Total	6,726.87	6,726.87	6,726.87	21,624,254	21,624,254

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 Mid Rise	14.70	5.90	8.70	40.20	19.20	40.60	86	11	3
City Park	16.60	8.40	6.90	33.00	48.00	19.00	66	28	6
Condo/Townhouse High Rise	14.70	5.90	8.70	40.20	19.20	40.60	86	11	3
Enclosed Parking with Elevator	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Health Club	16.60	8.40	6.90	16.90	64.10	19.00	52	39	9
Other Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Parking Lot	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Quality Restaurant	16.60	8.40	6.90	12.00	69.00	19.00	39	18	43
Recreational Swimming Pool	16.60	8.40	6.90	33.00	48.00	19.00	52	39	9

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Mid Rise	0.543646	0.044284	0.209381	0.116714	0.014227	0.006316	0.021040	0.033117	0.002601	0.001862	0.005277	0.000709	0.000827
City Park	0.543646	0.044284	0.209381	0.116714	0.014227	0.006316	0.021040	0.033117	0.002601	0.001862	0.005277	0.000709	0.000827
Condo/Townhouse High Rise	0.543646	0.044284	0.209381	0.116714	0.014227	0.006316	0.021040	0.033117	0.002601	0.001862	0.005277	0.000709	0.000827
Enclosed Parking with Elevator	0.543646	0.044284	0.209381	0.116714	0.014227	0.006316	0.021040	0.033117	0.002601	0.001862	0.005277	0.000709	0.000827
Health Club	0.543646	0.044284	0.209381	0.116714	0.014227	0.006316	0.021040	0.033117	0.002601	0.001862	0.005277	0.000709	0.000827
Other Asphalt Surfaces	0.543646	0.044284	0.209381	0.116714	0.014227	0.006316	0.021040	0.033117	0.002601	0.001862	0.005277	0.000709	0.000827
Parking Lot	0.543646	0.044284	0.209381	0.116714	0.014227	0.006316	0.021040	0.033117	0.002601	0.001862	0.005277	0.000709	0.000827
Quality Restaurant	0.543646	0.044284	0.209381	0.116714	0.014227	0.006316	0.021040	0.033117	0.002601	0.001862	0.005277	0.000709	0.000827
Recreational Swimming Pool	0.543646	0.044284	0.209381	0.116714	0.014227	0.006316	0.021040	0.033117	0.002601	0.001862	0.005277	0.000709	0.000827

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Exceed Title 24

Imperial Avalon - Los Angeles-South Coast County, Summer

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.3165	2.7429	1.4292	0.0173		0.2187	0.2187		0.2187	0.2187		3,453.2105	3,453.2105	0.0662	0.0633	3,473.7312
NaturalGas Unmitigated	0.4108	3.5540	1.8154	0.0224		0.2838	0.2838		0.2838	0.2838		4,481.0009	4,481.0009	0.0859	0.0822	4,507.6293

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 Mid Rise	21034.8	0.2269	1.9385	0.8249	0.0124		0.1567	0.1567		0.1567	0.1567		2,474.6853	2,474.6853	0.0474	0.0454	2,489.3911
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Condo/Townhouse High Rise	9595.72	0.1035	0.8843	0.3763	5.6400e-003		0.0715	0.0715		0.0715	0.0715		1,128.9080	1,128.9080	0.0216	0.0207	1,135.6166
Enclosed Parking with Elevator	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
Health Club	913.232	9.8500e-003	0.0895	0.0752	5.4000e-004		6.8000e-003	6.8000e-003		6.8000e-003	6.8000e-003		107.4390	107.4390	2.0600e-003	1.9700e-003	108.0775
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
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Quality Restaurant	6544.73	0.0706	0.6416	0.5390	3.8500e-003		0.0488	0.0488		0.0488	0.0488		769.9686	769.9686	0.0148	0.0141	774.5441
Recreational Swimming Pool	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		**0.4108**	**3.5540**	**1.8154**	**0.0224**		**0.2838**	**0.2838**		**0.2838**	**0.2838**		**4,481.0009**	**4,481.0009**	**0.0859**	**0.0822**	**4,507.6293**

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 Mid Rise	15.7298	0.1696	1.4496	0.6169	9.2500e-003		0.1172	0.1172		0.1172	0.1172		1,850.5600	1,850.5600	0.0355	0.0339	1,861.5569
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Condo/Townhouse High Rise	7.17564	0.0774	0.6613	0.2814	4.2200e-003		0.0535	0.0535		0.0535	0.0535		844.1930	844.1930	0.0162	0.0155	849.2097
Enclosed Parking with Elevator	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
Health Club	0.548217	5.9100e-003	0.0538	0.0452	3.2000e-004		4.0800e-003	4.0800e-003		4.0800e-003	4.0800e-003		64.4961	64.4961	1.2400e-003	1.1800e-003	64.8793
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
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Quality Restaurant	5.89867	0.0636	0.5783	0.4858	3.4700e-003		0.0440	0.0440		0.0440	0.0440		693.9614	693.9614	0.0133	0.0127	698.0852
Recreational Swimming Pool	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		**0.3165**	**2.7429**	**1.4292**	**0.0173**		**0.2187**	**0.2187**		**0.2187**	**0.2187**		**3,453.2105**	**3,453.2105**	**0.0662**	**0.0633**	**3,473.7312**

6.0 Area Detail

6.1 Mitigation Measures Area

Use only Natural Gas Hearths

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	38.4733	19.2625	107.8486	0.1209		2.0195	2.0195		2.0195	2.0195	0.0000	23,298.8977	23,298.8977	0.6166	0.4238	23,440.6152
Unmitigated	354.2038	26.3208	717.0158	1.5790		93.2144	93.2144		93.2144	93.2144	11,362.0720	22,014.5448	33,376.6168	34.0574	0.7712	34,457.8616

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	2.2156					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	31.1217					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	317.8497	25.1677	616.8734	1.5737		92.6590	92.6590		92.6590	92.6590	11,362.0720	21,834.0000	33,196.0720	33.8839	0.7712	34,272.9801
Landscaping	3.0169	1.1531	100.1425	5.3000e-003		0.5553	0.5553		0.5553	0.5553		180.5448	180.5448	0.1735		184.8815
Total	**354.2038**	**26.3208**	**717.0158**	**1.5790**		**93.2144**	**93.2144**		**93.2144**	**93.2144**	**11,362.0720**	**22,014.5448**	**33,376.6168**	**34.0574**	**0.7712**	**34,457.8616**

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	2.2156					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	31.1217					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	2.1192	18.1094	7.7061	0.1156		1.4642	1.4642		1.4642	1.4642	0.0000	23,118.3529	23,118.3529	0.4431	0.4238	23,255.7338
Landscaping	3.0169	1.1531	100.1425	5.3000e-003		0.5553	0.5553		0.5553	0.5553		180.5448	180.5448	0.1735		184.8815
Total	**38.4733**	**19.2625**	**107.8486**	**0.1209**		**2.0195**	**2.0195**		**2.0195**	**2.0195**	**0.0000**	**23,298.8977**	**23,298.8977**	**0.6166**	**0.4238**	**23,440.6152**

7.0 Water Detail

7.1 Mitigation Measures Water

Install Low Flow Bathroom Faucet

Install Low Flow Kitchen Faucet

Install Low Flow Toilet

Install Low Flow Shower

8.0 Waste Detail

8.1 Mitigation Measures Waste

Institute Recycling and Composting Services

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