RIVERWALK SAN DIEGO PROJECT

AIR QUALITY STUDY

Prepared for:

KLR Planning
San Diego, CA

Prepared by:

BPG
BIRDSEYE
PLANNING GROUP

September 2020

AIR QUALITY STUDY

THE RIVERWALK PROJECT

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Prepared for

Karen Ruggels
KLR Planning
San Diego, CA

Prepared by:

Birdseye Planning Group, LLC
1354 York Drive
Vista, California 92084

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RIVERWALK PROJECT
City of San Diego, California

AIR QUALITY STUDY

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EXECUTIVE SUMMARY

This report is an analysis of the potential air quality impacts associated with the proposed Riverwalk Project. The project is proposed to redevelop the existing Riverwalk golf course as a walkable, transit-centric, and modern live-work-play mixed-use neighborhood. The project would construct 4,300 multi-family residential dwelling units; 152,000 square feet of commercial retail space; and 1,000,000 square feet of commercial office space. These land uses would occur within Riverwalk's three planning Districts – the North and Central Districts, generally located north of the Metropolitan Transit System (MTS) trolley tracks and south of Friars Road; and the South District, located north of Hotel Circle North and generally south of the San Diego River. Additionally, the project would provide approximately 97 acres of park, open space, and trails that would serve the project and surrounding community, located generally along the San Diego River within the Park District and separating the North and Central Districts from the South District. The project would include adaptive reuse of the existing golf clubhouse into commercial retail and would add a new MTS Green Line Trolley stop/transit center within the development. ~~The project would be graded in a phased manner restricted by City rules, regulations and ordinances; agency limitations; and testing for archaeological/cultural resources; as well as the Regional Water Quality Control Board.~~ For purposes of this report, three general construction phases have been assumed, with Phase I completed in 2025, Phase II completed in 2030 and Phase III completed in 2035. The three anticipated phases represent the best estimate for the order and duration of project buildout based on expert advice considering site constraints and the scale of development. It is not anticipated that phasing could occur substantially faster than planned; however, the anticipated phasing is not required under the City regulations or the project entitlements. The necessary on-site and off-site infrastructure must be in place to service development as it is constructed, which is assured through conditions of the project and the Riverwalk Development Agreement.

The report has been prepared by Birdseye Planning Group, LLC under contract to KLR Planning, to support the discretionary review process~~.~~, and revised by AECOM. This study analyzes the ~~potential for temporary~~ air quality impacts associated with construction and ~~long-term air quality impacts associated with operation~~operational activities of the proposed project.

Air quality modeling was performed in general accordance with the methodologies outlined in the ~~SDAPCD 2009 RAQS~~City of San Diego California Environmental Quality Act (CEQA) Significance Determination Thresholds (City of San Diego, 2016) to identify both construction and operational emissions associated with the proposed project. All emissions were calculated using the California Emissions Estimator Model (CalEEMod) software version 2016.3.2 which incorporates current air emission data, planning methods and protocol approved by CARB.

~~The temporary construction impacts would be less than significant. Operational~~Emissions associated with construction include emissions from construction equipment exhaust, including off-road construction equipment and on-road motor vehicles, as well as fugitive dust emissions from site preparation and grading activities. In summary, construction-related emissions associated with each phase of construction would not exceed the thresholds of significance recommended by the City of San Diego. After construction, operational emissions include emissions from electricity consumption (energy sources), vehicle trips (mobile sources), area sources, landscape equipment, and evaporative emissions as the structures are repainted over the life of the project. The majority of operational emissions are associated with vehicle trips to and from the project site, ~~as well as energy consumption;~~ use of consumer products; and landscaping equipment associated with operation of the ~~residential~~ buildings and grounds. Individually, the phases would not exceed the ~~operational~~ thresholds of significance; however, cumulatively, the project would exceed the daily and annual emission thresholds for Reactive Organic Gas (ROG), Carbon Monoxide (CO) and Particulate Matter 10 (PM_{10}). ~~The annual standard would also be exceeded for ROC, CO and PM_{10}.~~

~~The proposed project would involve the use of diesel-powered construction equipment. Diesel exhaust may be noticeable temporarily at adjacent properties; however, construction activities would be temporary. The project would provide residential and commercial services and does not include industrial or agricultural uses that are typically associated with objectionable odors. The project would include filtered HVAC systems throughout the building(s) and ventilation filters/hoods for any kitchens constructed as part of the commercial or retail improvements to avoid or minimize odors associated with food preparation. Therefore, impacts associated with objectionable odors would be less than significant.~~

Construction and operation of the project have the potential to expose sensitive receptors to substantial pollutant concentrations. During construction, construction-related exhaust emissions may expose on-site and off-site sensitive receptors to substantial pollutant concentrations of toxic air contaminants, such as diesel particulate matter (DPM). As described in more detail in the Construction and Highway Health Risk Assessment (HRA), with implementation of Specific Plan Reg-132, the maximum cancer risk and chronic hazard index associated with construction of the project was determined to be 3.81 per million and less than 0.01 for the maximally exposed individual resident, respectively. These values are below of the significant risk levels of 10 in a million and a chronic hazard index greater than 1.0 identified with the SDAPCD Supplemental Guidelines for Submission of Air Toxics "Hot Spots" Program for HRAs.

The Riverwalk Specific Plan focuses future residential development in the North and Central Districts. While not proposed in the project, residential uses could occur in any of the three planning Districts where future development is proposed, provided the overall maximum project density/intensity allowed for in the Specific Plan is not exceeded and the procedures outlined in Chapter 7 of the Specific Plan are followed. The North and Central Districts are not located proximate to a freeway or urban roadway that carries more than 100,000 trips. Therefore, ~~exposure of~~it is anticipated that sensitive receptors ~~(i.e., residents)~~would not be

exposed to substantial pollutant concentrations in the North and Central Districts ~~to potential increased health risk would not occur. The~~. However, the South District is located within 500 feet of Interstate 8. Future residential development that could occur within the South District could be exposed to levels of diesel particulate matter (DPM) from heavy trucks and vehicular emissions associated with traffic on Interstate 8. ~~To preclude the potential for significant health risks for sensitive receptors, specific measures are included in the Specific Plan that would apply to future residential development in the South District.~~ As concluded in the HRA (AECOM, August 2020), the potential residential receptors in the South District proximal to Interstate 8, would not be exposed to substantial pollutant concentrations with implementation of Riverwalk Specific Plan Regulations 196 through 199. The purpose of these regulations is to minimize the exposure of future residents to pollutants associated with air emissions from vehicles traveling on Interstate 8. The results of the August 2020 HRA support the conclusions in the Air Quality Report that, with implementation of Specific Plan Regulations, health risks would be less than significant.

Although CO is not a regional air quality concern in SDAB~~,~~ (i.e., the SDAB is designated as an attainment area for CO), elevated CO levels can occur at or near intersections that experience severe traffic congestion. The Sacramento Metropolitan Air Quality Management District (SMAQMD) developed a screening threshold in 2011, which states that any project involving an intersection with 31,600 vehicles per hour or more will require detailed analysis. Sacramento and San Diego have the same federal and State CO attainment designations; and thus, experience similar concentrations of CO. Screening volumes used by SMAQMD are appropriate for evaluating CO impacts in the SDAB. None of the 14 intersections would meet the 31,600 vehicle per hour threshold. ~~Receptors~~In addition, as a result of improvements in technology and vehicle emission standards, CO emission factors are projected to decrease in future years. These improvements would also reduce the concentration of CO emissions (City of San Diego, 2007). Thus, receptors would not be exposed to substantial CO pollutant concentrations.

The project would provide residential and commercial services and does not include industrial or agricultural uses that are typically associated with objectionable odors. The project would include filtered HVAC systems throughout the building(s) and ventilation filters/hoods for any kitchens constructed as part of the commercial or retail improvements to avoid or minimize odors associated with food preparation. Therefore, impacts associated with objectionable odors would be less than significant.

As noted, the RAQS relies on information from CARB and SANDAG, including projected growth in the County, mobile, area and all other source emissions to project future emissions and determine from that the strategies necessary for the reduction of stationary source emissions through regulatory controls. Projects that propose development that is consistent with the growth anticipated by the general plan is consistent with the State Implementation Plan, Air Quality Management Plan and Regional Air Quality Strategy. The project was determined to be consistent with the SIP, AQMP, and RAQS ~~and significance threshold~~. Impacts related to this threshold would be less than significant.

Riverwalk Project
San Diego, California

AIR QUALITY STUDY

PROJECT DESCRIPTION

The Riverwalk project site is currently developed with the Riverwalk Golf Course, which consists of three nine-hole courses; clubhouse building; driving range; and associated driveways, surface parking, and various maintenance and related facilities.

The Riverwalk Specific Plan proposes redevelopment of the existing Riverwalk Golf Course as a mixed-use neighborhood that features ~~an~~a River Park along the San Diego River. The Riverwalk Specific Plan is divided into four planning districts. Three of the planning districts – North, Central, and South – would develop with a mix of uses including 4,300 multi-family residential dwelling units, 152,000 square feet of commercial retail space, 1,000,000 square feet of office and non-retail commercial uses, and park space. The Park District would include the Riverwalk River Park, open space, and trails. Improvements to surrounding public infrastructure and roadways would be implemented as part of the Riverwalk project, including improvements to the Fashion Valley Road crossing of the San Diego River as a 10- to 15-year storm event crossing, and a new Green Line Trolley stop. The project would also include a habitat restoration effort on-site to create and/or enhance 25.16 acres of native habitats along the San Diego River, within and adjacent to the MHPA. This area includes and exceeds the wetland habitat mitigation required for project impacts to wetlands features (i.e., 1.92 acres of required mitigation). The surplus (acreage not needed for project mitigation) habitat area is intended to serve as a future wetland habitat mitigation bank. The project site is shown in Figure 1. The proposed site plan is shown in Figure 2. Figure 3 shows Riverwalk's planning districts.

The project would establish Irrevocable Offers of Dedication (IODs) for future construction of two Community Plan Circulation Element roadways envisioned in the Mission Valley Community Plan Update: future Riverwalk Street "J," which would cross the San Diego River in a north-south direction; and future Riverwalk Street "U," which would travel approximately east-west along the southern project site boundary and connect to future Street "J." Street "J" would be an elevated roadway crossing the river valley.

Figure 1 — Vicinity Map

Figure 2 — Site Plan

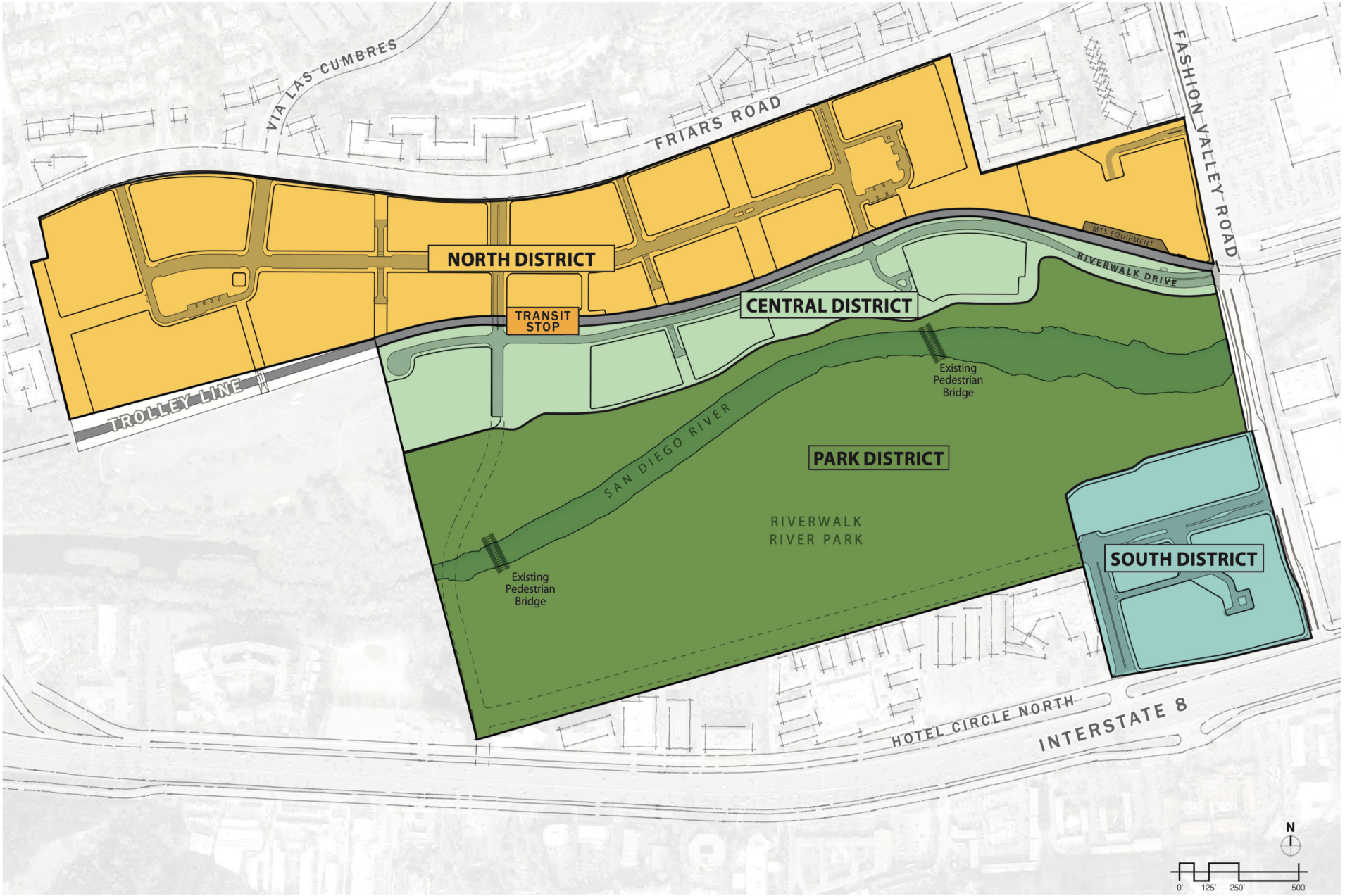

Figure 3 — Specific Plan Districts

REGULATORY SETTING

Air pollutants are regulated at the national, State, and air basin level; each agency has a different degree of control. The United States Environmental Protection Agency (USEPA) regulates at the national level; the California Air Resources Control Board (CARB) regulates at the State level; and the San Diego Air Pollution Control District (SDAPCD) regulates air quality in San Diego County.

The federal and state governments have been empowered by the federal and state Clean Air Acts to regulate the emission of airborne pollutants and have established ambient air quality standards for the protection of public health. The USEPA is the federal agency designated to administer national air quality regulations, while CARB is the state equivalent in the California Environmental Protection Agency. Local control over air quality management is provided by CARB through multi-county and county-level Air Pollution Control Districts (APCDs) (also referred to as Air Quality Management Districts). CARB establishes statewide air quality standards and is responsible for the control of mobile emission sources, while the local APCDs are responsible for enforcing standards and regulating stationary sources. CARB has established 15 air basins statewide. The City of San Diego is located in the San Diego Air Basin (SDAB), which is under the jurisdiction of the SDAPCD (see below).

California Air Resources Board

CARB, which became part of the California EPA (CalEPA) in 1991, is responsible for ensuring implementation of the California Clean Air Act (CCAA), meeting state requirements of the federal Clean Air Act and establishing California Ambient Air Quality Standards (CAAQSs). It is also responsible for setting emission standards for vehicles sold in California and for other emission sources such as consumer products and certain off-road equipment. CARB also established passenger vehicle fuel specifications and oversees the functions of local air pollution control districts and air quality management districts, which in turn administer air quality activities at the regional and county level. The CCAA is administered by CARB at the state level and by the Air Quality Management Districts at the regional level. Both state and federal standards are summarized in Table 1. The federal "primary" standards have been established to protect the public health. The federal "secondary" standards are intended to protect the nation's welfare and account for air pollutant effects on soil, water, visibility, materials, vegetation, and other aspects of the general welfare.

San Diego Air Pollution Control District

The SDAPCD was created to protect the public from the harmful effects of air pollution, achieve and maintain air quality standards, foster community involvement and develop and implement cost-effective programs that meet state and federal mandates while considering environmental and economic impacts.

Specifically, the SDAPCD is responsible for monitoring air quality and planning, implementing, and enforcing programs designed to attain and maintain state and federal ambient air quality standards in the district. Programs developed include air quality rules and regulations that regulate stationary source emissions, including area sources, point sources, and certain mobile source emissions. The SDAPCD is also responsible for establishing permitting requirements for stationary sources and ensuring that new, modified or relocated stationary sources do not create net emissions increases; and thus, are consistent with the region's air quality goals. The

Table 1 Ambient Air Quality Standards

POLLUTANT	AVERAGE TIME	CALIFORNIA STANDARDS[1]		NATIONAL STANDARDS[2]		
		Concentration[3]	Method[4]	Primary[3, 5]	Secondary[3, 6]	Method[7]
Ozone[8] (O_3)	1 hour	0.09 ppm (180 µg/m³)	Ultraviolet Photometry	—	Same as Primary Standard	Ultraviolet Photometry
	8 hours	0.070 ppm (137µg/m³)		0.070 ppm (137 µg/m³)		
Carbon Monoxide (CO)	8 hours	9.0 ppm (10 mg/m³)	Non-Dispersive Infrared Spectroscopy (NDIR)	9 ppm (10 mg/m³)	--	Non-Dispersive Infrared Spectroscopy (NDIR)
	1 hour	20 ppm (23 mg/m³)		35 ppm (40 mg/m³)		
Nitrogen Dioxide (NO_2)[10]	Annual Average	0.030 ppm (57 µg/m³)	Gas Phase Chemiluminescence	0.053 ppm (100 µg/m³)	Same as Primary Standard	Gas Phase Chemiluminescence
	1 hour	0.18 ppm (339 µg/m³)		100 ppb (188 µg/m³)	--	
Sulfur Dioxide (SO_2)[11]	Annual Average	--	Ultraviolet Fluorescence	0.03 ppm (80 µg/m³)	--	Pararosaniline
	24 hours	0.04 ppm (105 µg/m³)		0.14 ppm (365 µg/m³)	--	
	3 hours	--		--	0.5 ppm (1300 µg/m³)	
	1 hour	0.25 ppm (655 µg/m³)		75 ppb (196 µg/m³)	--	
Respirable Particulate Matter (PM_{10})[9]	24 hours	50 µg/m³	Gravimetric or Beta Attenuation	150 µg/m³	150 µg/m³	Inertial Separation and Gravimetric Analysis
	Annual Arithmetic Mean	20 µg/m³		--	--	
Fine Particulate Matter ($PM_{2.5}$)[9]	Annual Arithmetic Mean	12 µg/m³	Gravimetric or Beta Attenuation	12 µg/m³	15 µg/m³	Inertial Separation and Gravimetric Analysis
	24 hours	--		35 µg/m³	Same as Primary Standard	
Sulfates	24 hours	25 µg/m³	Ion Chromatography	--	--	--

POLLUTANT	AVERAGE TIME	CALIFORNIA STANDARDS[1]		NATIONAL STANDARDS[2]		
		Concentration[3]	Method[4]	Primary[3, 5]	Secondary[3, 6]	Method[7]
Lead[12, 13] (Pb)	30-day Average	1.5 µg/m^3	Atomic Absorption	--	--	High Volume Sampler and Atomic Absorption
	Calendar Quarter	--		1.5 µg/m^3	Same as Primary Standard	
	3-month Rolling Average	--		0.15 µg/m^3		
Hydrogen Sulfide (H_2S)	1 hour	0.03 ppm (42 µg/m^3)	Ultraviolet Fluorescence	--	--	--
Vinyl Chloride[12]	24 hours	0.010 ppm (26 µg/m^3)	Gas Chromatography	--	--	--

Notes:

ppm = parts per million
µg/m^3 = micrograms per cubic meter
mg/m^3 = milligrams per cubic meter
Source: California Air Resources Board 2017

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/m^3 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. Contact the U.S. EPA for further clarification and current national policies.
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. Any equivalent measurement method which can be shown to the satisfaction of the CARB to give equivalent results at or near the level of the air quality standard may be used.
5. National Primary Standards: The levels of air quality necessary, with an adequate margin of safety to protect the public health.
6. National Secondary Standards: The levels of air quality necessary to protect the public welfare from any known or anticipated adverse effects of a pollutant.
7. Reference method as described by the U.S. EPA. An "equivalent method" of measurement may be used but must have a "consistent relationship to the reference method" and must be approved by the U.S. EPA.
8. On October 1, 2015, the national 8-hour ozone primary and secondary standards were lowered from 0.075 to 0.070 ppm.
9. On December 14, 2012, the national annual $PM_{2.5}$ primary standard was lowered from 15 µg/ m^3 to 12.0 µg/ m^3. The existing national 24-hour $PM_{2.5}$ standards (primary and secondary) were retained at 35 µg/ m^3, as was the annual secondary standard of 15 µg/ m^3. The existing 24-hour PM_{10} standards (primary and secondary) of

150 µg/ m^3 also were retained. The form of the annual primary and secondary standards is the annual mean, averaged over 3 years.

10. 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.
11. 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 parts per billion (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.
12. The 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.
13. The national standard for lead was revised on October 15, 2008 to a rolling 3-month average. The 1978 lead standard (1.5 µg/ m^3 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.
14. In 1989, the 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.

SDAPCD provides significance thresholds in Regulation II, Rule 20.2, Table 20-2-1. "AQIA Trigger Levels." These trigger levels were established for stationary sources of air pollution and are ~~commonly used for environmental evaluations.~~included within the City of San Diego's CEQA Significance Determination Thresholds. The trigger levels were derived based on the attainment status of the region and are set to determine whether project emissions would be cumulatively considerable. The SDAPCD enforces air quality rules and regulations through a variety of means, including inspections, educational or training programs, or fines, when necessary.

State Implementation Plan/Air Quality Management Plan/Regional Air Quality Strategy

The federal Clean Air Act Amendments (CAAA) mandate that states submit and implement a State Implementation Plan (SIP) for areas not meeting air quality standards. SIPs are comprehensive plans that describe how an area will attain national and state ambient air quality standards. SIPs are a compilation of new and previously submitted plans, programs (i.e., monitoring, modeling and permitting programs), district rules, state regulations and federal controls and include pollution control measures that demonstrate how the standards will be met through those measures.

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 forwards SIP revisions to the USEPA for approval and publication in the Federal Register. Thus, the Regional Air Quality Strategy (RAQS) and Air Quality Management Plan (AQMP) prepared by SDAPCD and referenced herein become part of the SIP as the material relates to efforts ongoing in San Diego to achieve the national and state ambient air quality standards. The most recent SIP element for San Diego County was submitted in December 2016. The document identifies control measures and associated emission reductions necessary to demonstrate attainment of the 2008 Federal 8-hour ozone standard by July 20, 2018.

The San Diego RAQS was developed pursuant to California Clean Air Act (CCAA) requirements. The RAQS was initially adopted in 1991 and was updated in 1995, 1998, 2001, 2004, 2009 and 2016. The RAQS can be found at the following:

http://www.sdapcd.org/content/dam/sdc/apcd/PDF/Air%20Quality%20Planning/2016%20RAQS.pdf.

The RAQS identifies feasible emission control measures to provide progress in San Diego County toward attaining the State ozone standard. The pollutants addressed in the RAQS are volatile organic compounds (VOC) and oxides of nitrogen (NOx), precursors to the photochemical formation of ozone (the primary component of smog). The RAQS was initially adopted by the San Diego County Air Pollution Control Board on June 30, 1992, and amended on March 2, 1993, in response to ARB comments. At present, no attainment plan for particulate matter less than 10 microns in diameter (PM_{10}) or particulate matter less than 2.5 microns in diameter ($PM_{2.5}$) is required by the state regulations; however, SDAPCD has adopted measures to reduce particulate matter in San Diego County. These measures range from regulation against open burning to incentive programs that introduce cleaner technology. These measures can be found in a report titled "*Measures to Reduce Particulate Matter in San Diego County"* December 2005 and can be found at:

http://www.sdapcd.org/content/dam/sdc/apcd/PDF/Air%20Quality%20Planning/PM-Measures.pdf.

The RAQS relies on information from CARB and San Diego Association of Governments (SANDAG), including mobile and area source emissions, as well as information regarding projected growth in the County, to estimate future emissions and then determine strategies necessary for the reduction of emissions through regulatory controls. CARB mobile source emission projections and SANDAG growth projections are based on population and vehicle trends as well as land use plans developed by the cities and the County as part of the development of the individual General Plans. As such, projects that propose development consistent with the growth anticipated by the general plans would be consistent with the RAQS. In the event that a project would propose development which is less dense than anticipated within the General Plan, the project would likewise be consistent with the RAQS. If a project proposes development that is greater than that anticipated in the General Plan and SANDAG's

growth projections, the project might conflict with the RAQS and SIP; and thus, have a potentially significant impact on air quality.

Under state law, the SDAPCD is required to prepare an AQMP for pollutants for which the SDAB is designated non-attainment. Each iteration of the SDAPCD's AQMP is an update of the previous plan and has a 20-year horizon. Currently the SDAPCD has implemented a 2012 8-hour National Ozone Implementation/Maintenance Plan, a 2007 8-hour Ozone Plan, and a 2004 Carbon Monoxide Plan. The SDAPCD adopted the 2008 8-hour Ozone Attainment Plan for San Diego County on December 16, 2016. CARB adopted the ozone plan as a revision to the California SIP on March 23, 2017. The ozone plan was submitted to the USEPA for review on April 12, 2017. Comments from the USEPA are pending. These plans are available for download on the ARB website located at the following URL:

http://www.arb.ca.gov/planning/sip/planarea/sansip.htm.

ENVIRONMENTAL SETTING

REGIONAL CLIMATE

The weather of San Diego County is profoundly influenced by the Pacific Ocean and its semi-permanent high-pressure systems that result in dry, warm summers and mild, occasionally wet winters. The average minimum temperature for January ranges from the mid-40s to the high-50s degrees Fahrenheit (4 to 15 degrees Celsius) across the county. July maximum temperatures average in the mid-80s to the high-90s degrees Fahrenheit (high-20s to the high-30s degrees Celsius). Most of the county's precipitation falls from November to April, with infrequent (approximately 10 percent) precipitation during the summer. The average seasonal precipitation along the coast is approximately 10 inches (254 millimeters); the amount increases with elevations as moist air is lifted over the mountains.

The interaction of ocean, land, and the Pacific High-Pressure Zone maintains clear skies for much of the year and drives the prevailing winds. Local terrain is often the dominant factor inland and winds in inland mountainous areas tend to blow upwards in the valleys during the day and down the hills and valleys at night.

In conjunction with the onshore/offshore wind patterns, there are two types of temperature inversions (reversals of the normal decrease of temperature with height), which occur within the region that affect atmospheric dispersive capability and that act to degrade local air quality. In the summer, an inversion at about 1,100 to 2,500 feet (335 to 765 meters) is formed over the entire coastal plain when the warm air mass over land is undercut by a shallow layer of cool marine air flowing onshore. The prevailing sunny days in this region further exacerbate the smog problem by inducing additional adverse photochemical reactions. During the winter, a nightly shallow inversion layer (usually at about 800 feet or 243 meters) forms between the cooled air at the ground and the warmer air above, which can trap vehicular pollutants. The days of highest Carbon Monoxide (CO) concentrations occur during the winter months.

The predominant onshore/offshore wind pattern is sometimes interrupted by so-called Santa Ana conditions, when high pressure over the Nevada-Utah region overcomes the prevailing westerly wind direction. This draws strong, steady, hot, and dry winds from the east over the mountains and out to sea. Strong Santa Ana winds tend to blow pollutants out over the ocean, producing clear days. However, at the onset or breakdown of these conditions or if the Santa Ana is weak, prevailing northwesterly winds are reestablished which send polluted air from the Los Angeles basin ashore in the SDAB. "Smog transport from the South Coast Air Basin (the metropolitan areas of Los Angeles, Orange, San Bernardino, and Riverside counties) is a key factor on more than half the days San Diego exceeds clean air standards" (San Diego Air Pollution Control District, 2010).

Pollutants

The SDAPCD is required to monitor air pollutant levels to ensure that air quality standards are met and, if they are not met, to develop strategies to meet the standards. Depending on whether the standards are met or exceeded, the local air basin is classified as being in "attainment" or "non-attainment." San Diego County is listed as a federal non-attainment area for ozone (eight hour) and a state non-attainment area for ozone (one hour and eight-hour standards), PM_{10} and $PM_{2.5}$. As shown in Table 2, the SDAB is in attainment for the state and federal standards for nitrogen dioxide, carbon monoxide, sulfur dioxide and lead. Characteristics of ozone, carbon monoxide, nitrogen dioxide, and suspended particulates are described below.

Ozone. Ozone is produced by a photochemical reaction (triggered by sunlight) between nitrogen oxides (NO_X) and reactive organic gases (ROG)[1]. Nitrogen oxides are formed during the combustion of fuels, while reactive organic compounds are formed during combustion and evaporation of organic solvents. Because ozone requires sunlight to form, it mostly occurs in concentrations considered serious between the months of April and October. Ozone is a pungent, colorless, toxic gas with direct health effects on humans including respiratory and eye irritation and possible changes in lung functions. Groups most sensitive to ozone include children, the elderly, people with respiratory disorders, and people who exercise strenuously outdoors.

[1] Organic compound precursors of ozone are routinely described by a number of variations of three terms: hydrocarbons (HC), organic gases (OG), and organic compounds (OC). These terms are often modified by adjectives such as total, reactive, or volatile, and result in a rather confusing array of acronyms: HC, THC (total hydrocarbons), RHC (reactive hydrocarbons), TOG (total organic gases), ROG (reactive organic gases), TOC (total organic compounds), ROC (reactive organic compounds), and VOC (volatile organic compounds). While most of these differ in some significant way from a chemical perspective, from an air quality perspective two groups are important: non-photochemically reactive in the lower atmosphere, or photochemically reactive in the lower atmosphere (HC, RHC, ROG, ROC, and VOC).

Table 2
San Diego County Attainment Status

Criteria Pollutant	Federal Designation	State Designation
Ozone (one hour)	Attainment*	Non-Attainment
Ozone (eight hour)	Moderate Non-Attainment	Non-Attainment
Carbon Monoxide	Attainment	Attainment
PM_{10}	Unclassifiable**	Non-Attainment
$PM_{2.5}$	Attainment	Non-Attainment
Nitrogen Dioxide	Attainment	Attainment
Sulfur Dioxide	Attainment	Attainment
Lead	Attainment	Attainment
Sulfates	No Federal Standard	Attainment
Hydrogen Sulfide	No Federal Standard	Unclassified
Visibility	No Federal Standard	Unclassified

** The federal 1-hour standard of 12 ppm was in effect from 1979 through June 1, 2005. The revoked standard is referenced here because it was used for such a long period and because this benchmark is addressed in State Implementation Plans (SIPs).*

*** At the time of designation, if the available data does not support a designation of attainment or non-attainment, the area is designated as unclassifiable.*

Source: San Diego Air Pollution Control District. June 2016. http://www.sandiegocounty.gov/content/sdc/apcd/en/air-quality-planning/attainment-status.html

Carbon Monoxide. Carbon monoxide (CO) is a local pollutant that is found in high concentrations only near the source. The major source of carbon monoxide, a colorless, odorless, poisonous gas, is automobile exhaust. Elevated CO concentrations; therefore, are usually only found near areas of high traffic volumes operating in congested conditions. Carbon monoxide health effects are related to blood hemoglobin. At high concentrations, carbon monoxide reduces the amount of oxygen in the blood, causing heart difficulties in people with chronic diseases, reduced lung capacity and impaired mental abilities.

Nitrogen Dioxide. Nitrogen dioxide (NO_2) is a by-product of fuel combustion, with the primary source being motor vehicles and industrial boilers and furnaces. The principal form of nitrogen oxide produced by combustion is nitric oxide (NO), but NO reacts rapidly to form NO_2, creating the mixture of NO and NO_2 commonly called NO_X. Nitrogen dioxide is an acute irritant. A relationship between NO_2 and chronic pulmonary fibrosis may exist and an increase in bronchitis in young children at concentrations below 0.3 parts per million (ppm) may occur. Nitrogen dioxide absorbs blue light and causes a reddish-brown cast to the atmosphere and reduced visibility. It can also contribute to the formation of PM_{10} and acid rain.

Suspended Particulates. PM_{10} is particulate matter measuring no more than 10 microns in diameter, while $PM_{2.5}$ is fine particulate matter measuring no more than 2.5 microns in diameter. Suspended particulates are mostly dust particles, nitrates and sulfates. Both PM_{10} and $PM_{2.5}$ are by-products of fuel combustion and wind erosion of soil and unpaved roads and are directly emitted into the atmosphere through these processes. Suspended particulates are also created in the atmosphere through chemical reactions. The characteristics, sources, and potential health effects associated with the small particulates (those between 2.5 and 10 microns

in diameter) and fine particulates ($PM_{2.5}$) can be very different. The small particulates generally come from windblown dust and dust kicked up from mobile sources. The fine particulates are generally associated with combustion processes as well as being formed in the atmosphere as a secondary pollutant through chemical reactions. Fine particulate matter is more likely to penetrate deeply into the lungs and poses a health threat to all groups, but particularly to the elderly, children, and those with respiratory problems. More than half of the small and fine particulate matter that is inhaled into the lungs remains there. These materials can damage health by interfering with the body's mechanisms for clearing the respiratory tract or by acting as carriers of an absorbed toxic substance.

Toxic Air Contaminants/Diesel Particulate Matter. Hazardous air pollutants, also known as toxic air pollutants (TACs) or air toxics, are those pollutants that are known or suspected to cause cancer or other serious health effects, such as reproductive effects or birth defects, or adverse environmental effects. Examples of toxic air pollutants include:

- benzene, which is found in gasoline;
- perchloroethylene, which is emitted from some dry-cleaning facilities; and
- methylene chloride, which is used as a solvent.

Transportation related emissions are focused on particulate matter constituents within diesel exhaust and TAC constituents that comprise a portion of total organic gas (TOG) emissions from both diesel and gasoline fueled vehicles. Diesel engine emissions are comprised of exhaust particulate matter and TOGs which are collectively defined as Diesel Particulate Matter (DPM). DPM and TOG emissions from both diesel and gasoline fueled vehicles is typically composed of carbon particles and carcinogenic substances including polycyclic aromatic (i.e., odorous) hydrocarbons, benzene, formaldehyde, acetaldehyde, acrolein, and 1,3-butadiene. Diesel exhaust also contains gaseous pollutants, including volatile organic compounds and oxides of nitrogen (NO_x).

SENSITIVE RECEPTORS

Land uses considered to be sensitive receptors include residential, school, childcare centers, acute care hospitals, and long-term health care facilities. Sensitive receptors are determined based upon special factors which may include the age of the users or occupants, the frequency and duration of the use or occupancy, continued exposure to hazardous substances as defined by federal and state regulations, and the user's ability to evacuate a specific site in the event of a hazardous incident. Ambient air quality standards have been established to represent the levels of air quality considered sufficient, with an adequate margin of safety, to protect public health and welfare. They are designed to protect that segment of the public most susceptible to respiratory distress, such as children; the elderly; persons engaged in strenuous work or exercise and people with cardiovascular and chronic respiratory diseases. Recreational uses can be considered moderately sensitive to air pollution. Exercise can place a high demand on respiratory functions, which can be impaired by air pollution even though exposure periods during exercise are generally short. In addition, noticeable air pollution can detract from the

enjoyment of recreation. Industrial and commercial areas are considered the least sensitive to air pollution. Exposure periods are relatively short and intermittent, as the majority of the workers tend to stay indoors most of the time.

The nearest receptors are multifamily residences located adjacent to the northeast and northwest corners of the project site. Multifamily residences are located along the northern site boundary on the north side of Friars Road. Additionally, multifamily residences are located along the southern site boundary on the north side of Hotel Circle North. New residential development will occur at the Town and Country Hotel and Union Tribune properties, both located east of the project site, as redevelopment with a mix of uses occurs those areas. The project will contain sensitive receptors as residential uses are developed within Riverwalk. Areas containing sensitive receptors are shown in Figure 4.

Monitored Air Quality

The SDAPCD monitors air quality conditions at locations throughout the SDAB. For this analysis, data from the San Diego Kearny Villa Road monitoring station north of the site were used to characterize existing ozone and $PM_{2.5}$ conditions in the vicinity of the project site. A summary of the data recorded at the Kearny Villa Road monitoring station from 2015 through 2017 is presented in Table 3.

Table 3
Ambient Air Quality Data

Pollutant	2015	2016	2017
Ozone, ppm - Worst 8-Hour Average	0.070	0.075	0.082
Number of days of State 1-hour exceedances (>0.070 ppm)	0	3	6
Number of days of Federal exceedances (>0.070 ppm)[1]	0	3	6
Particulate Matter <10 microns, $\mu g/m^3$ Worst 24 Hours*	39	36	46
Number of samples of State exceedances (>50 $\mu g/m^3$)	0	*	0
Number of samples of Federal exceedances (>150 $\mu g/m^3$)	0	0	0
Particulate Matter <2.5 microns, $\mu g/m^3$ Worst 24 Hours	25.7	19.4	27.5
Number of samples of State exceedances (No Standard)	N/A	N/A	N/A
Number of samples of Federal exceedances (>35 $\mu g/m^3$)	0	0	0

[1] *– Federal O3 standard reduced from 75 ppm to 70 ppm in October 2015*
*Insufficient data to determine number of exceedances
Data from the San Diego Kearny Villa Road, 6125 A Kearny Villa Road Station in San Diego.
Source: California Air Resources Board, 2015, 2016, 2017 Air Quality Data Summaries available at: http://www.arb.ca.gov/adam/topfour/topfourdisplay.php Accessed June 5, 2019.

Figure 4 — Surrounding Land Use

AIR QUALITY IMPACT ANALYSIS

METHODOLOGY AND SIGNIFICANCE THRESHOLDS

Air quality modeling was performed in general accordance with the methodologies outlined in the ~~SDAPCD 2009 RAQS~~City of San Diego CEQA Significance Determination Thresholds to identify both construction and operational emissions associated with each phase and the ~~cumulative~~combined total of all project phases at build out. All emissions were calculated using the California Emissions Estimator Model (CalEEMod) software version 2016.3.2 which incorporates current air emission data, planning methods and protocol approved by CARB.

Construction activities would include demolition of existing asphalt concrete parking lots, buildings, vegetation removal, grading, construction of the buildings/utilities and related improvements as well as paving driveways and parking areas. Construction activities would require the use of equipment that would generate criteria air pollutant emissions. ~~The project would be graded in a phased manner restricted by City rules, regulations and ordinances; agency limitations; and testing for archaeological/cultural resources; as well as the Regional Water Quality Control Board.~~ For purposes of this report, three general construction phases have been assumed, with Phase I (western portion of North District) completed in 2025, Phase II (eastern portion of North District and Central District) completed in 2030 and Phase III (South District) completed in 2035. (See Figure 5 for location of phases.) The three anticipated phases represent the best estimate for the order and duration of project buildout based on expert advice considering site constraints and the scale of development. It is not anticipated that phasing could occur substantially faster than planned; however, the anticipated phasing is not required under the City regulations or the project entitlements. The necessary on-site and off-site infrastructure must be in place to service development as it is constructed, which is assured through conditions of the project and the Riverwalk Development Agreement. Modeling was performed for general grading phases described as Phase I, II and III for the purposes of this report, to quantify emissions and assumed a five-year construction duration for each phase (i.e., 2021-2025, 2026-2030 and 2031-2035) with full build out in 2035. The project phases are defined as follows:

Phase I (North District):	1,910 multi-family dwelling units; 110,300 SF Retail; Construction of the Riverwalk trolley/transit station; 65,000 SF multi-tenant Office; 4.71-acre Developed Park.
Phase II (North District and Central District):	2,390 multi-family dwelling units; 13,100 SF Retail; ~~construction of the Riverwalk trolley station;~~

	79.75-acre Developed Park (including the River Park).
Phase III (South District):	28,600 SF Retail; 935,000 SF multi-tenant Office; and 2.2-acre Park.

Full buildout consists of the following elements:

- 4,300 multi-family dwelling units;
- 152,000 SF Retail;
- 1,000,000 SF Office; and
- 97 acres of parks, open space and trails.

~~While a mix of residential and retail commercial uses is anticipated to be focused in the North and Central Districts, with office and non-retail commercial uses concentrated in the South District, the mix of residential, retail commercial, and office and non-retail commercial land uses would be allowed in any of Riverwalk's three planning Districts where development is proposed.~~

~~It is unknown how many parking spaces would be constructed as part of the project; thus, it was conservatively assumed that parking would be constructed using the following ratios; 1.5 space per multifamily unit, 3.3 spaces per 1,000 square feet of office space and 4 spaces per 1,000 square feet of retail. This would equate to 3,520 spaces in Phase I, 3,637 spaces in Phase II, and 3,117 spaces in Phase III. For modeling purposes, 80% of the spaces would be accommodated in garages while the remainder would be constructed in surface lots. Parking facilities do not generate parking emissions during operation; however, emissions were calculated for the purpose of estimating total construction emissions.~~

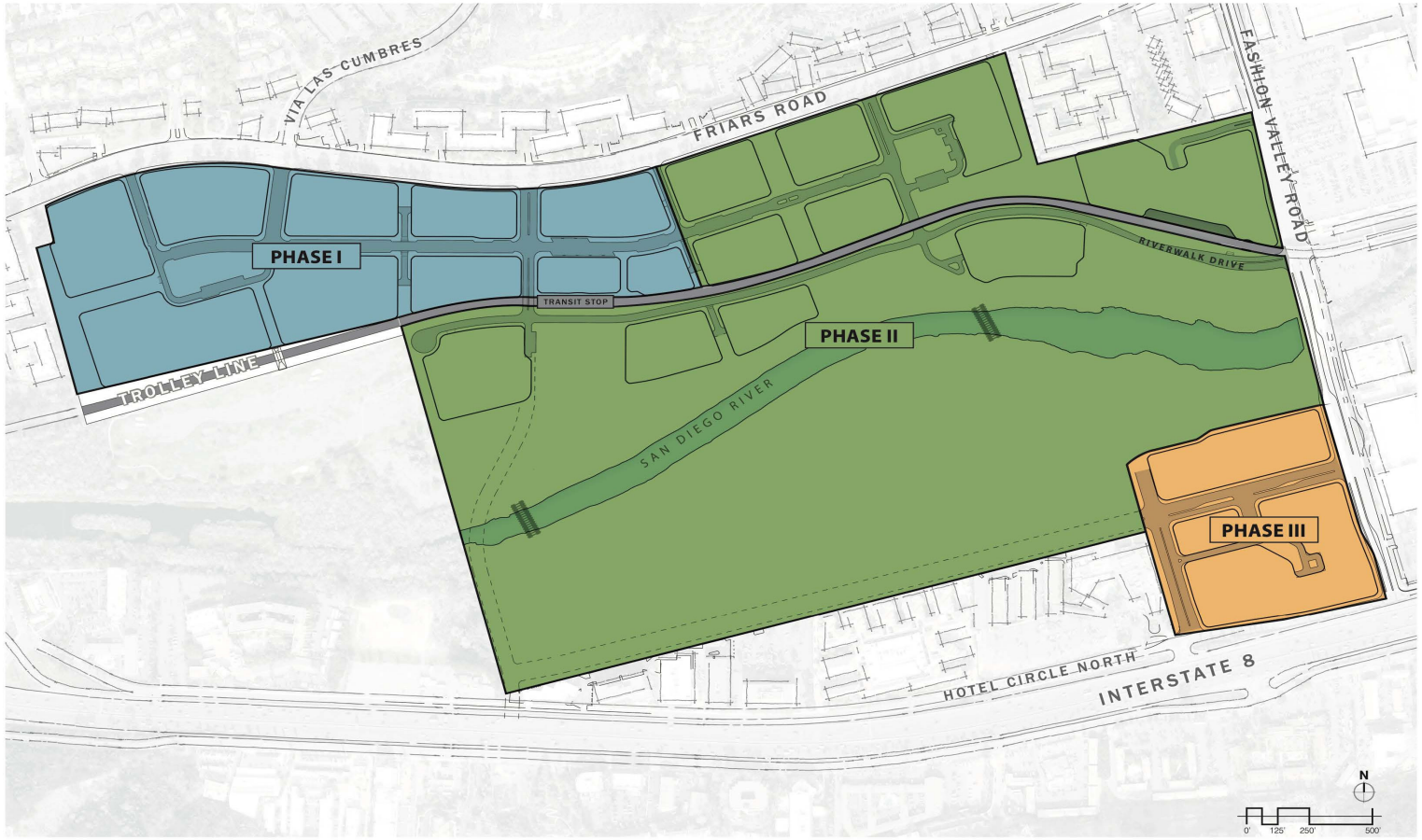

Figure 5 — Construction Phasing

CalEEMod allows the user to modify the defaults to reflect site- or project-specific construction information, such as types, number, and horsepower of construction equipment, and number of off-site motor vehicle trips. The assumptions related to the quantity and type of construction equipment, material import and export quantities, and specific phasing of construction activities were developed in consultation with Clark Construction, a licensed construction contractor who has experience with project planning for master planned projects of this scale. Per information provided by Clark Construction using construction best practices that represent the most likely buildout plan for the project, the analysis assumed that the demolition, site preparation, and grading subphases of Phase II would overlap with building construction for Phase I. Similarly, the analysis assumed that the demolition, site preparation and grading phases for Phase III would overlap with Phase II. While overlapping is not required, it is suggested as a construction best practice by Clark. For information, and to illustrate the conservative nature of the overlapped sitework phasing plan, construction emissions for sequential phasing of the project (i.e. not overlapping sitework) are included in this document in Appendix B. A letter from Clark Construction confirming the basic modeling parameters is provided herein as Appendix C to this report.

Further, for modeling purposes, it was assumed that all construction equipment used would be diesel-powered. All equipment over 50 horsepower were assumed to be Tier 3 and equipped with Level 3 Diesel Particulate Filters to reduce particulate emissions, which would be a condition required of the project and included as Regulation 132 in the Specific Plan. Construction emissions associated with development of the proposed project were quantified by estimating the types of equipment, including the number of individual pieces of equipment, that would be used on-site during each of the construction phases, as well as off-site haul trips to remove demolition debris and import fill material. Based on Clark's review of the development plan, fill import is estimated to be 400,000 cubic yards in Phase I, 300,000 cubic yards in Phase II, and 178,600 cubic yards in Phase III which considers the construction of subterranean garages as opposed to on-grade structures, resulting in less import requirements. In addition, import quantities for Phase II are based on Clark's estimates for the anticipated soil requirements. Emissions associated with fill import were calculated for each development phase and were assumed to be delivered to the site during the site preparation and grading construction phases.

Demolition emissions are based on estimates of the square footage of material to be removed and converted to cubic yards with haul trips assigned based on total cubic yards within Phases I, II and III. Emissions associated with the application of architectural coating (i.e., painting) were calculated ~~only~~ for exterior and interior surfaces, based on assumptions provided by Clark. ~~Exterior finished surfaces, (i.e., glass, stone, brick, stucco) were assumed to not require painting.~~ Construction emissions are analyzed using the regional thresholds established by the SDAPCD and published under Rule 20-2, as recommended by the City of San Diego CEQA Significance Determination Thresholds. ~~Fill import is estimated to be 621,000 cubic yards in Phase I, 224,100 cubic yards in Phase II, and 178,600 cubic yards in Phase III. Emissions associated with fill import were calculated for each development phase and were assumed to be delivered to the site during the site preparation and grading construction phases.~~

While a mix of residential and retail commercial uses is anticipated to be focused in the North and Central Districts, with office and non-retail commercial uses concentrated in the South District, the mix of residential, retail commercial, and office and non-retail commercial land uses would be allowed in any of Riverwalk's three planning Districts where development is proposed.

It is unknown how many parking spaces would be constructed as part of the project; thus, it was conservatively assumed that parking would be constructed using the following ratios; 1.5 space per multifamily unit, 3.3 spaces per 1,000 square feet of office space and 4 spaces per 1,000 square feet of retail. This would equate to 3,520 spaces in Phase I, 3,637 spaces in Phase II, and 3,117 spaces in Phase III. For modeling purposes, 80% of the spaces would be accommodated in garages while the remainder would be constructed in surface lots. Parking facilities do not generate parking emissions during operation; however, emissions were calculated for the purpose of estimating total construction emissions.

Operational emissions include mobile source emissions, energy emissions, and area source emissions. Mobile source emissions are generated by motor vehicle trips associated with operation of the project. Emissions attributable to energy use include electricity and natural gas consumption for space and water heating. Area source emissions are generated by landscape maintenance equipment, use of consumer products, and painting.

The default trip generation numbers in CalEEMod were modified to reflect trip and annual vehicle miles traveled (VMT) projections for Phases I, II, and III provided in the Riverwalk San Diego Mobility Assessment (May 2020) and Transportation Impact Analysis (March 2020). As described in more detail in the Riverwalk San Diego Mobility Assessment and Transportation Impact Analysis, Phases I, II, and III would generate 37,222 net new cumulative average daily vehicle trips. The project trips were calculated based on the trip generation rates in the City of San Diego Trip Generation Manual (May 2003) and incorporate the San Diego Association of Governments (SANDAG) Mixed-Use Development (MXD) methodology. This method reduces projected trips by applying mixed-use and transit credits associated with the project design features. In addition, as described in the Riverwalk Transportation Impact Analysis (May 2020), the Riverwalk project is well served by transit given its proximity to an existing high-quality transit corridor, an existing major transit stop and a future trolley stop to be constructed by the project. As such, the project VMT analysis demonstrated that VMT per capita (resident) and VMT per employee would be approximately 9.9 miles and 19.57 miles, respectively, at least 15 percent below the San Diego's regional average resident and employee VMT per capita. Since CalEEMod default trip generation and trip lengths for San Diego County would not be representative of the project's VMT, the mobile source emission estimates for passenger vehicle trips were reduced based on the VMT estimate for the project presented in the Transportation Impact Analysis. As such, the trip generation and annual VMT estimates consider California Air Pollution Control Officer's Association (CAPCOA) recommended measures for reducing criteria air pollutant emissions from mobile sources, such as increasing density, increasing the diversity of developments, increasing location efficiency and destination and transit accessibility, which are features of the project and the project's location. The air quality analysis

and trip generation/VMT analysis conservatively do not account for additional VMT savings associated with the Transportation Demand Management (TDM) Program, which includes pedestrian network improvements, bicycle infrastructure improvements, implementation of parking policy/pricing, transit pass subsidies to residents and employees, and trip reduction marketing. The TDM Program is estimated to reduce overall resident and employee VMT by approximately 4.2 percent and 8.3 percent, respectively.

To determine whether a regional air quality impact would occur, project emissions are compared with the SDAPCD recommended regional thresholds for operational emissions.

Thresholds of Significance. Based on City of San Diego Significance Determination Thresholds Guidelines, a project would have a significant air quality impact if it would:

a) *Conflict with or obstruct implementation of the applicable air quality plan;*
b) *Violate any air quality standard or contribute substantially to an existing or projected air quality violation;*
c) *Result in a cumulatively considerable net increase of any criteria pollutant for which the project region is in non-attainment under an applicable federal or state ambient air quality standard (including releasing emissions that exceed quantitative thresholds for ozone precursors);*
d) *Expose sensitive receptors to substantial pollutant concentrations;*
e) *Create objectionable odors affecting a substantial number of people. or*
f) *Release substantial quantities of air contaminants beyond the boundaries of the premises upon which the stationary source emitting the contaminants is located.*

~~A significant adverse air quality impact may occur when a project individually or cumulatively interferes with progress toward the attainment of the ozone standard by generating emissions that equal or exceed the established long-term quantitative thresholds for pollutants or exceed a state or federal ambient air quality standard for any criteria pollutant.~~Since the project does not involve stationary sources, threshold f is not discussed in this air quality analysis.

As referenced, the SDAPCD has established thresholds in Rule 20.2 for new or modified stationary sources (SDAPCD, 2015). With the exception of Volatile Organic Compounds (VOCs) and $PM_{2.5}$ thresholds, the City of San Diego screening quantities shown in the *California Environmental Quality Act Significance Determination Thresholds,* Table A-2, (City of San Diego, 2016) incorporate screening level thresholds from Rule 20.2 for use in air quality reports and for determining CEQA air quality impacts. The City does not show a standard for $PM_{2.5}$ but does include a threshold for Reactive Organic Gas/Volatile Organic Compounds (ROG/VOC) emissions. Collectively, the standards shown in Table A-2 of the City's 2016 CEQA Determination Thresholds and the $PM_{2.5}$ threshold shown in Table 20.2-1 of SDAPCD Rule 20.2, are used herein to determine whether project emissions would cause a significant air quality impact~~.~~ in the region. The standards provided in Table A-2 of the City of San Diego *California Environmental Quality Act Significance Determination Thresholds* are shown in Table 4.

Significant sources of emissions in proximity to the project area are associated with operation of Interstate 8, Friars Road, Fashion Valley Road and Hotel Circle North. CARB recommends siting new sensitive uses more than 500 feet from a freeway, urban roads with 100,000 vehicles per day or rural roads with 50,000 vehicles per day. The North and Central Districts, located approximately 2,000 feet north of Interstate 8, are planned as mixed use neighborhoods with predominantly residential development and retail commercial space. The South District is planned for employment uses, predominantly office space with some retail commercial use. However, the Specific Plan allows for flexibility in the amount and location of land uses, provided subject to an overall maximum density/intensity and provisions included in Chapter 7 of the Specific Plan. Therefore, while not planned, future residential development could also occur in the South District.

Table 4
San Diego Air Pollution Control District Pollutant Operational Thresholds

Pollutant	Emission Rate		
	lbs/hour	lbs/day	tons/year
Carbon Monoxide (CO)	100	550	100
Nitrogen Oxides (NOx)	25	250	40
Particulate Matter (PM_{10})	--	100	15
Sulfur Oxides (SOx)	25	250	40
Lead/Lead Compounds	--	3.2	0.6
Particulate Matter ($PM_{2.5}$)	--	--	--
Volatile Organic Compounds (VOCs)	--	137[(a)]	15

Source: SDAPCD Rule 1501, 20.2(d)(2)
a. San Diego Air Basin has been in attainment of SOx standard due to sulfur-free natural gas for electricity generation and lack of heavy industrial/manufacturing uses in the region.
Note- Lead emissions have steadily declined due to catalytic converters and increased use of lead-free gasoline. San Diego is no longer required to monitor for lead.

Per the Traffic Impact Report (March 2020), for urban roads surrounding the project, the highest segment volumes on Friars Road and Fashion Valley Road under 2035 conditions would be 28,500 vehicles per day. The highest volumes on Hotel Circle North would be 11,890 vehicles per day. The urban road volumes would not exceed 100,000 vehicles per day. Therefore, CARB's recommendation that residential uses be located more than 500 feet from an urban road carrying more than 100,000 vehicles per day would not apply.

Interstate 8 is located immediately south of and parallel to Hotel Circle North. While not planned, rResidential uses ~~could occur~~are allowed by the zoning in the South District as part of future mixed-use development in that area, which would be within 500 feet from a freeway. Localized vehicular emissions from traffic on Interstate 8 have the potential to ~~create particulate matter at levels that could affect~~expose the future on-site sensitive receptors, such as residential units closest to the freeway should such uses occur within the South District~~.~~, to substantial pollutant concentrations. In addition, construction-related exhaust emissions also have the potential to expose on-site and off-site sensitive receptors to substantial pollutant concentrations. To evaluate the potential health risks associated with locating residences in

proximity to Interstate 8, as well as construction-related emissions, a Health Risk Assessment (AECOM 2020) was performed.

Since the City of San Diego has not established significance thresholds for health risk, consistent with the SDAPCD Supplemental Guidelines for Submission of Air Toxics "Hot Spots" Program for HRAs, Rule 1210 public notification and significant risk levels were utilized (SDAPCD 2019). The project would be considered to result in an adverse health risks related to toxic air contaminant emissions if it specifically would result in exposure of sensitive receptors to TACs in a manner that cause:

- excess cancer risk levels of more than 10 in 1 million;
- and a chronic HI greater than 1.0.

~~To minimize exposure of sensitive receptors to diesel particulate matter and other emissions associated with traffic operating on Interstate 8, the specific Plan includes the following design features that would be implemented as part of future residential development that could occur in the South District. For any residential uses occurring in the South District, the project applicant shall:~~

> ~~**Riverwalk Specific Plan Policy S-8.** Install air filtration devices rated minimum efficiency reporting value (MERV-13) or higher 13 in the intake of ventilation systems for residences constructed in the South District. Heating, air conditioning, and ventilation (HVAC) systems shall be installed with a fan unit designed to force air through the MERV filter. Prior to issuance of building permits, the project applicant shall submit evidence to the City of San Diego to ensure compliance with this measure. To ensure long-term maintenance and replacement of the MERV filters in the individual residential units, the owner/property manager of residential units shall maintain and replace MERV filters in accordance with the manufacturer's recommendations. The owner/property manager shall keep a record of activities related to maintenance of the filters.~~
>
> ~~**Riverwalk Specific Plan Policy S-9.** Design residential buildings so that the air intakes do not occur on the southern side of buildings and away from Interstate 8, to the extent feasible.~~

~~With implementation of these measures, health risks associated with particulate matter from vehicular emissions generated by traffic on Interstate 8 would be reduced to a level **less than significant**.~~

CONSTRUCTION EMISSIONS

Project construction would generate temporary air pollutant emissions. These impacts are associated with fugitive dust (PM_{10} and $PM_{2.5}$) from soil disturbance and exhaust emissions (NO_x, CO, PM_{10}, $PM_{2.5}$, and ~~CO~~SO_x) from ~~heavy~~on-road and off-road construction vehicles. As referenced, the ~~e~~ number of haul trips to remove demolition debris were projected based on estimated square feet of surface area and converted to cubic yards with haul trips assigned for Phases I, II, and III. As noted, construction would generally consist of construction/demolition waste, vegetation removal, site preparation, construction of buildings, paving and the application of architectural coating (painting interior and exterior surfaces). For the purpose of estimating daily emissions, ~~it was assumed that approximately 10 acres would be disturbed daily during the construction of each general grading phase~~the various steps in the construction process were approximated to coincide with the construction duration for each of the three phases. ~~This will vary from day to day depending on construction requirements; however, based on the size of the construction area, a 10-acre area reasonably approximates the area where site preparation and grading emissions would be concentrated. The number of haul trips to remove demolition debris were estimated based on tonnage. As noted, construction would generally consist of construction/demolition waste, vegetation removal, site preparation, construction of buildings, paving and the application of architectural coating (painting interior surfaces only). Exterior surfaces were assumed to be glass, stone, brick, stucco or others surfaces that would not require painting. For the purpose of estimating daily emissions, the various steps in the construction process were overlapped to approximate the completion timeline for the residential and commercial uses.~~ Construction emissions related to demolition, site preparation, and grading were overlapped with construction of previous phases to be conservative, as this was suggested as an industry best practice by Clark Construction. The general phase durations were confirmed by Clark Construction as referenced above. The architectural coating phase was modified to overlap with a portion of the building construction phase rather than occur sequentially at the completion of all building construction, which allows buildings to be put in service as they are complete as opposed to painting them all at the same time. This approach is realistic relative to how the work would be performed during the actual construction process and was based on expert advice from Clark Construction.

Site preparation and grading would involve the greatest concentration of heavy equipment use and the highest potential for fugitive dust emissions. The project would be required to comply with SDAPCD Rules 51, 52, and 54 which identify measures to reduce fugitive dust and is required to be implemented at all construction sites located within the SDAB. Therefore, the following conditions, which are required to reduce fugitive dust in compliance with SDAPCD Rules 52 and 54, were included in CalEEMod for site preparation and grading phases of construction.

1. **Minimization of Disturbance.** Construction contractors should minimize the area disturbed by clearing, grading, earth moving, or excavation operations to prevent excessive amounts of dust.

2. **Soil Treatment.** Construction contractors should treat all graded and excavated material, exposed soil areas and active portions of the construction site, including unpaved on-site roadways to minimize fugitive dust. Treatment shall include, but not necessarily be limited to, periodic watering, application of environmentally safe soil stabilization materials, and/or roll compaction as appropriate. Watering shall be done as often as necessary, and at least twice daily, preferably in the late morning and after work is done for the day.

3. **Soil Stabilization.** Construction contractors should monitor all graded and/or excavated inactive areas of the construction site at least weekly for dust stabilization. Soil stabilization methods, such as water and roll compaction, and environmentally safe dust control materials shall be applied to portions of the construction site that are inactive for over four days. If no further grading or excavation operations are planned for the area, the area shall be seeded and watered until landscape growth is evident, or periodically treated with environmentally safe dust suppressants, to prevent excessive fugitive dust.

4. **No Grading During High Winds.** Construction contractors should stop all clearing, grading, earth moving, and excavation operations during periods of high winds (20 miles per hour or greater, as measured continuously over a one-hour period).

5. **Street Sweeping.** Construction contractors should sweep all on-site driveways and adjacent streets and roads at least once per day, preferably at the end of the day, if visible soil material is carried over to adjacent streets and roads.

Phase I construction is assumed to begin in 2021 and be completed in 2025~~ with residual painting occurring in early 2026~~. Phase II construction would begin in 2026 and be completed by 2030. Phase III construction would begin in 2031 and be completed by 2035. In addition to SDAPCD Rules 52 and 54 requirements, emissions modeling also accounts for the use of low-VOC paint (100 g/L for non-flat coatings) as required by SDAPCD Rule 67. As referenced, all equipment over 50 horsepower was assumed to be Tier 3 equipped with Level 3 Diesel Particulate Filters, which would be a required per Reg 132 of the Specific Plan. Tables 5, 6, and 7 summarize the estimated maximum daily emissions of pollutants occurring during the construction period for each of the proposed phases. Hourly emissions were calculated by dividing daily emissions by 8 (assuming an 8-hour workday). Annual emissions were calculated by multiplying daily emissions by ~~261~~ 263 (assuming ~~261~~ 263 total workdays annually) and dividing by 2,000~~.~~ pounds per ton. It is assumed that emissions are worst-case and that actual emissions will be less as control technology is improved over time.

As shown in Table 5, the daily, hourly and annual~~ standards would not be exceeded during construction of Phase I~~ construction-related emissions associated with Phase I would not exceed the thresholds of significance. Because the thresholds of significance were developed to indicate whether emission increases will cause a violation of an air quality standard or contribute to an existing or projected air quality violation, construction impacts from Phase I would be **less than significant** for all criteria pollutants (**threshold b)**.

~~Potentially significant ROG impacts associated with painting was avoided by extending the painting phase over an 11-month period generally beginning in June 2025 with residual painting occurring through May 2026. By overlapping the painting phase of the project with the Phase I building construction phase and early site preparation work associated with Phase II, daily ROG emissions were reduced to below the threshold. Construction impacts during Phase I would be **less than significant** for all criteria pollutants under **thresholds a-d**.~~

As shown in Table 6, the daily, hourly and annual ~~standards~~construction-related emissions associated with Phase II would not ~~be exceeded during construction of Phase II~~ exceed the thresholds of significance. ~~Like Phase I, the ROG emissions associated with the application of architectural coating (i.e., painting) are calculated based on the square footage of interior surface area to be covered. To reduce ROG emissions, the painting phase was extended over a 10-month period generally beginning in June 2030 through May 2031.~~ Thus, ~~Impacts~~ impacts ~~associated~~ from with construction of Phase II would be **less than significant** ~~under **thresholds a-d**~~**(threshold b)**.

~~As~~ Similarly, as shown in Table 7, the daily, hourly and annual ~~emission thresholds~~construction-related emissions associated with Phase III would not ~~be exceeded with construction of Phase III. Like Phases I and II, ROG emissions associated with the application of architectural coating (i.e., painting) are calculated based on the square footage of interior surface area to be covered. To reduce ROG emissions, the painting phase was extended over a four-month period generally beginning in October 2035 through completion of Phase III construction in January 2036.~~exceed the thresholds of significance. Thus, ~~Impact~~ impacts ~~related to~~ from construction of Phase III would be **less than significant** ~~under **thresholds a-d**~~**(threshold b).**

Construction-Related Toxic Air Contaminant Impacts. The greatest potential for toxic air contaminant emissions would be related to diesel particulate emissions associated with heavy equipment operations during construction of the proposed project. ~~According to South Coast Air Quality Management District (SCAQMD) methodology, health effects from carcinogenic air toxics are usually described in terms of "individual cancer risk". A cancer risk greater than 10 cases per 1,000,000 people exposed would be considered a significant impact.~~ The California Office of Environmental Health Hazard Assessment (OEHHA) health risk guidance states that a residential receptor should be evaluated based on a 30-year exposure period. "Individual Cancer Risk" is the likelihood that a person exposed to concentrations of toxic air contaminants over a 70-year lifetime will contract cancer, based on the use of standard risk-assessment methodology. ~~Given the short-term construction schedule, the proposed project would not result in a long-term (i.e., 30 or 70 year) exposure to a substantial source of toxic air contaminant emissions; and thus, would not be exposed to the related individual cancer risk. **Therefore, no significant short-term toxic air contaminant impacts would occur during construction of the proposed project.**~~ As referenced, an HRA was prepared for the project to evaluate health risks and assess whether the project would expose sensitive receptors to substantial pollutant concentrations associated with construction of the proposed project. With implementation the Specific Plan Regulation 132 requiring the use of Tier 3 diesel powered equipment with Level 3

Diesel Particulate Filters for all equipment over 50 horsepower, the HRA (AECOM, July 2020), determined that the cancer risk associated with construction of the proposed project ranges from 0.4 per million to 3.8 per million for the on-site and off-site receptors. Thus, the cancer risk from construction-related emissions is less than the 10 cases per 1,000,000 threshold recommended by the SDAPCD. As described in more detail in the HRA, the chronic hazard index due to construction was determined to be less than 0.01, which is also less than the chronic hazard index threshold of 1.0. **Therefore,** construction activities would not expose sensitive receptors to substantial pollutant concentrations of toxic air contaminant emissions and this impact would be **less than significant** (**threshold d**).

OPERATIONAL EMISSIONS

~~Operational Pollutant Emissions~~

Table 8 summarizes daily, hourly and annual emissions associated with operation of the proposed project. Operational emissions include emissions from electricity consumption (energy sources), vehicle trips (mobile sources), area sources, landscape equipment, and evaporative emissions as the structures are repainted over the life of the project. The majority of operational emissions are associated with vehicle trips to and from the project site and area emissions associated with operation of the residential buildings, use of consumer products and landscaping equipment. The emissions are based on known factors and may be less with improved efficiencies in vehicle and maintenance equipment emissions.

Phase I. As shown in Table 8, the ~~total daily~~operational emissions ~~under~~associated with Phase I would not exceed the daily, hourly or annual thresholds ~~for pollutants modeled~~of significance.

Phase II. As shown in Table 8, ~~under~~the operational emissions associated with Phase II would not exceed the daily, hourly or annual thresholds ~~for pollutants modeled.~~of significance.

Phase III. As shown in Table 8, ~~under~~the operational emissions associated with Phase III would not exceed the daily, hourly or annual thresholds ~~for pollutants modeled.~~of significance.

Cumulative Total. The daily standards for NOx, SOx, and $PM_{2.5}$ would not be exceeded at full build out as shown in Table 8. However, the daily and annual ROG, CO, and PM_{10} standards would be exceeded ~~as would the tons/year threshold for ROG, CO, and PM_{10}~~. Therefore, since the combined project operations would exceed the threshold of significance for CO, PM_{10}, and ROG, the project would result in a cumulatively considerable net increase in CO, PM_{10}, and ROG emissions and this impact would be significant **(threshold c)**.

Table 5
Estimated Maximum Construction Emissions – Phase I

Construction Phase		Maximum Emissions (lbs/day)				
	ROG	NO_x	CO	SOx	PM_{10}	$PM_{2.5}$
2021 Maximum lbs/day	~~17.2~~13.6	~~199.5~~153.2	~~136.5~~ 171.0	~~0.6~~0.5	~~33.3~~28.5	~~11.9~~8.7
2022 Maximum lbs/day	~~10.0~~13.0	~~67.8~~148.3	~~80.6~~148.3	~~0.3~~0.5	~~21.7~~21.7	~~6.5~~9.3
2023 Maximum lbs/day	~~9.1~~8.9	~~56.0~~67.2	~~75.7~~92.2	0.3	~~21.5~~21.1	~~6.3~~5.9
2024 Maximum lbs/day	~~8.7~~75.1	~~54.2~~131.5	~~72.2~~145.2	~~0.3~~0.5	~~21.4~~78.7	~~6.2~~21.0
2025 Maximum lbs/day	~~116.5~~75.2	~~62.8~~122.1	~~94.0~~159.0	~~0.3~~0.4	~~25.4~~30.1	~~7.6~~9.2
~~**2026 Maximum lbs/day**~~	~~108.0~~	~~10.3~~	~~24.6~~	~~0.05~~	~~4.0~~	~~1.4~~
City of San Diego Screening Thresholds	137	250	550	250	100	67
2021 Maximum lbs/hour	--	**19.2~~24.9~~**	**21.3~~17.0~~**	**0.06~~0.075~~**	--	--
2022 Maximum lbs/hour	--	**18.5~~8.4~~**	**20.8~~10.1~~**	**0.06~~0.03~~**	--	--
2023 Maximum lbs/hour	--	**8.4~~7.0~~**	**11.5~~9.4~~**	**0.03~~0.03~~**	--	--
2024 Maximum lbs/hour	--	**16.4~~6.7~~**	**18.2~~9.0~~**	**0.06~~0.03~~**	--	--
2025 Maximum lbs/hour	--	**15.2~~7.9~~**	**19.8~~11.8~~**	**0.05~~0.3~~**	--	--
~~**2026 Maximum lbs/hour**~~	~~--~~	~~**1.2**~~	~~**3.0**~~	~~**0.0063**~~	~~--~~	~~--~~
City of San Diego Screening Thresholds	--	25	100	25	--	--
2021 Maximum tons/year	**1.7~~2.2~~**	**20.1~~25.9~~**	**22.4~~17.8~~**	**0.06~~0.07~~**	**3.7~~4.3~~**	--
2022 Maximum tons/year	**1.7~~1.3~~**	**19.4~~8.8~~**	**21.8~~10.5~~**	**0.06~~0.04~~**	**4.1~~2.8~~**	--
2023 Maximum tons/year	**1.2~~01.18~~**	**8.8~~7.3~~**	**12.0~~9.8~~**	**0.04~~0.04~~**	**2.7~~2.8~~**	--
2024 Maximum tons/year	**9.8~~1.13~~**	**17.2~~7.1~~**	**19.0~~9.4~~**	**0.06~~0.04~~**	**10.3~~2.8~~**	--
2025 Maximum tons/year	**9.8~~15.2~~**	**16.0~~8.1~~**	**20.9~~12.2~~**	**0.05~~0.04~~**	**3.9~~3.3~~**	--
~~**2026 Maximum tons/year**~~	~~14.1~~	~~1.3~~	~~3.2~~	~~0.007~~	~~0.5~~	~~--~~
City of San Diego Screening Thresholds	15	40	100	40	15	--
Threshold Exceeded 2021	**No**	**No**	**No**	**No**	**No**	**No**
Threshold Exceeded 2022	**No**	**No**	**No**	**No**	**No**	**No**
Threshold Exceeded 2023	**No**	**No**	**No**	**No**	**No**	**No**
Threshold Exceeded 2024	**No**	**No**	**No**	**No**	**No**	**No**
Threshold Exceeded 2025	**No**	**No**	**No**	**No**	**No**	**No**

See Appendix for CalEEMod ver. 2016.3.2 computer model output. Summer emissions shown.

Table 6
Estimated Maximum Construction Emissions – Phase II

Construction Phase		Maximum Emissions (lbs/day)				
	ROG	NO_x	CO	SOx	PM_{10}	$PM_{2.5}$
2026 Maximum lbs/day	13.03.3	96.741.6	111.932.3	0.50.1	38.811.0	10.75.9
2027 Maximum lbs/day	12.513.1	95.393.9	107.6105.6	0.50.5	38.339.1	10.711.0
2028 Maximum lbs/day	12.112.6	94.192.7	104.0102.0	0.50.5	38.739.1	10.711.0
2029 Maximum lbs/day	71.712.1	95.191.4	114.598.6	0.50.5	45.039.1	12.411.0
2030 Maximum lbs/day	65.0117.4	108.987.5	118.3108.7	0.30.5	27.66.2	11.212.4
~~**2031 Maximum lbs/day**~~	~~105.8~~	~~1.6~~	~~12.6~~	~~0.04~~	~~45.0~~	~~1.6~~
City of San Diego Screening Thresholds	137	250	550	250	100	67
2026 Maximum lbs/hour	--	12.1**5.2**	13.9**4.0**	0.06**0.02**	--	--
2027 Maximum lbs/hour	--	11.9**11.7**	13.5**13.2**	0.06**0.06**	--	--
2028 Maximum lbs/hour	--	11.7**11.5**	13.0**12.8**	0.06**0.06**	--	--
2029 Maximum lbs/hour	--	13.0**11.4**	14.3**12.3**	0.06**0.06**	--	--
2030 Maximum lbs/hour	--	13.6**10.9**	14.7**13.5**	0.03**0.06**	--	--
~~**2031 Maximum lbs/hour**~~	~~--~~	~~0.2~~	~~1.6~~	~~0.005~~	~~--~~	~~--~~
City of San Diego Screening Thresholds	--	25	100	25	--	--
2026 Maximum tons/year	1.7**0.43**	12.7**5.4**	14.7**42.2**	0.06**0.013**	1.4**1.4**	--
2027 Maximum tons/year	1.6**1.7**	12.5**12.2**	14.0**13.7**	0.06**0.06**	1.4**5.1**	--
2028 Maximum tons/year	1.6**1.6**	12.3**12.1**	13.6**13.3**	0.06**0.06**	1.4**5.1**	--
2029 Maximum tons/year	9.4**1.6**	12.5**11.9**	15.1**12.8**	0.06**0.06**	1.6**5.1**	--
2030 Maximum tons/year	8.5**15.2**	14.2**11.4**	15.5**14.1**	0.04**0.06**	1.5**0.8**	--
~~**2031 Maximum tons/year**~~	~~13.8~~	~~0.2~~	~~1.6~~	~~0.0006~~	~~5.9~~	~~--~~
City of San Diego Screening Thresholds	15	40	100	40	15	--
Threshold Exceeded 2026	**No**	**No**	**No**	**No**	**No**	**No**
Threshold Exceeded 2027	**No**	**No**	**No**	**No**	**No**	**No**
Threshold Exceeded 2028	**No**	**No**	**No**	**No**	**No**	**No**
Threshold Exceeded 2029	**No**	**No**	**No**	**No**	**No**	**No**
Threshold Exceeded 2030	**No**	**No**	**No**	**No**	**No**	**No**

See Appendix for CalEEMod ver. 2016.3.2 computer model output. Summer emissions shown.

Table 7
Estimated Maximum Construction Emissions – Phase III

Construction Phase		Maximum Emissions (lbs/day)				
	ROG	NO_x	CO	SOx	PM_{10}	$PM_{2.5}$
2030 Maximum lbs/day	*3.7*	50.4	51.1	0.2	10.1	2.9
2031 Maximum lbs/day	*3.0*	50.1	50.4	0.1	10.1	2.9
2032 Maximum lbs/day	*3.5*	49.8	49.8	0.1	10.1	2.9
2033 Maximum lbs/day	*29.3*	49.6	49.3	0.1	10.1	2.9
2034 Maximum lbs/day	*29.3*	*12.8*	*21.5*	*0.04*	*1.6*	0.5
~~**2035 Maximum lbs/day**~~	~~*94.4*~~	~~*33.3*~~	~~*34.5*~~	~~*0.2*~~	~~*9.94*~~	~~2.8~~
~~**2036 Maximum lbs/day**~~	~~*94.4*~~	~~*0.9*~~	~~*3.9*~~	~~*0.01*~~	~~*1.4*~~	~~0.4~~
City of San Diego Screening Thresholds	*137*	*250*	*550*	*250*	*100*	67
2030 Maximum lbs/hour	**--**	6.3~~**4.3**~~	6.3~~**4.5**~~	0.025~~**0.025**~~	**--**	**--**
2031 Maximum lbs/hour	**--**	6.2~~**4.3**~~	6.3~~**4.5**~~	0.012~~**0.025**~~	**--**	**--**
2032 Maximum lbs/hour	**--**	6.2~~**4.3**~~	6.2~~**4.5**~~	0.012~~**0.025**~~	**--**	**--**
2033 Maximum lbs/hour	**--**	6.2~~**4.3**~~	6.2~~**4.5**~~	0.012~~**0.025**~~	**--**	**--**
2034 Maximum lbs/hour	**--**	1.6~~**4.3**~~	2.6~~**4.3**~~	0.005~~**0.025**~~	**--**	**--**
~~**2035 Maximum lbs/hour**~~	~~**--**~~	~~**4.3**~~	~~**4.3**~~	~~**0.025**~~	~~**--**~~	~~**--**~~
~~**2036 Maximum lbs/hour**~~	~~**--**~~	~~0.1~~	~~0.48~~	~~0.0001~~	~~**--**~~	~~**--**~~
City of San Diego Screening Thresholds	--	25	100	25	--	--
2030 Maximum tons/year	0.48~~**0.49**~~	6.6~~**4.5**~~	6.7~~**4.7**~~	0.02~~**0.02**~~	1.3~~**1.4**~~	**--**
2031 Maximum tons/year	0.47~~**0.5**~~	6.6~~**4.5**~~	6.6~~**4.7**~~	0.01~~**0.02**~~	1.3~~**1.3**~~	**--**
2032 Maximum tons/year	0.46~~**0.5**~~	6.5~~**4.5**~~	6.5~~**4.7**~~	0.01~~**0.02**~~	1.3~~**1.3**~~	**--**
2033 Maximum tons/year	3.9~~**0.5**~~	6.5~~**4.5**~~	6.5~~**4.5**~~	0.01~~**0.02**~~	1.3~~**1.3**~~	**--**
2034 Maximum tons/year	3.9~~**12.3**~~	1.7~~**4.3**~~	2.8~~**4.5**~~	.0005~~**0.2**~~	0.21~~**1.3**~~	**--**
~~**2035 Maximum tons/year**~~	~~**12.3**~~	~~**4.3**~~	~~**4.5**~~	~~**0.2**~~	~~**1.3**~~	~~**--**~~
~~**2036 Maximum tons/year**~~	~~12.3~~	~~0.11~~	~~0.5~~	~~0.001~~	~~0.18~~	~~**--**~~
City of San Diego Screening Thresholds	15	40	100	40	15	--
Threshold Exceeded 2030	**No**	**No**	**No**	**No**	**No**	**No**
Threshold Exceeded 2031	**No**	**No**	**No**	**No**	**No**	**No**
Threshold Exceeded 2032	**No**	**No**	**No**	**No**	**No**	**No**
Threshold Exceeded 2033	**No**	**No**	**No**	**No**	**No**	**No**

Table 7
Estimated Maximum Construction Emissions – Phase III

Construction Phase		Maximum Emissions (lbs/day)				
	ROG	NO_x	CO	SOx	PM_{10}	$PM_{2.5}$
Threshold Exceeded 2034	**No**	**No**	**No**	**No**	**No**	**No**
~~**Threshold Exceeded 2035**~~	~~**No**~~	~~**No**~~	~~**No**~~	~~**No**~~	~~**No**~~	~~**No**~~
~~**Threshold Exceeded 2036**~~	~~**No**~~	~~**No**~~	~~**No**~~	~~**No**~~	~~**No**~~	~~**No**~~

See Appendix for CalEEMod ver. 2016.3.2 computer model output. Summer emissions shown.

~~The SDAPCD thresholds for ROG, CO, and PM_{10} would be exceeded.~~ The majority of the emissions are associated with operation of vehicles by residents, commercial tenants and retail customers as well as energy, consumer product and landscaping equipment emissions associated operation and maintenance of buildings. ~~Therefore, the project's regional air quality impacts (**including impacts related to criteria pollutants, sensitive receptors, violations of air quality standards per threshold d**) would be significant. The project would also result in a cumulatively considerable net increase in CO, PM_{10} and ROG emissions. This would be a **significant impact per threshold c.**~~ To the extent feasible and applicable, as described in the Methodology and Significance Thresholds section above, the project's emissions already account for the recommended measures identified by CAPCOA for reducing air emissions (such as increasing density from existing conditions, (LUT-1), location efficiency (LUT-2), diversity of uses (LUT-3), destination accessibility (LUT-4), transit accessibility (LUT-5), etc.). As explained previously, the analysis conservatively did not account for reductions associated with implementation of the TDM Program. Nonetheless, because ~~Because~~ of the size and scope of the proposed development, there are no feasible methods for reducing all cumulative emissions to meet daily SDAPCD standards for ROG, ~~,~~ CO, and PM_{10} and the annual standard for PM_{10}.

Table 9 shows the combined emissions associated with operation of Phase I and the highest daily construction emissions during Phase II, as well as the combined daily Phase I and Phase II operational emissions during construction of Phase III.

Table 8
Estimated Operational Emissions

	Estimated Emissions (lbs/day)					
	ROG	**NO_X**	**CO**	**SO_X**	**PM_{10}**	**$PM_{2.5}$**
Phase I						
Area	57.156.9	3.41.8	158.0157.8	0.010.01	1.00.8	1.00.8
Energy	0.40.4	4.24.2	2.02.0	0.020.02	0.30.3	0.30.3
Mobile	12.816.0	64.856.4	139.8131.4	0.60.4	48.539.7	13.310.8
Maximum lbs/day	**70.473.4**	**72.562.4**	**300.3291.2**	**0.60.4**	**49.940.9**	**14.712.0**
Phase II						
Area	*66.664.3*	*4.22.2*	*197.8197*	*0.010.01*	*1.21.1*	1.21.1
Energy	*0.50.5*	*4.44.4*	*1.91.9*	*0.020.02*	*0.30.3*	0.30.3
Mobile	10.0*12.1*	51.8*48.1*	110.6*101.2*	0.5*0.3*	47.1*37.6*	12.810.2
Maximum lbs/day	***77.276.9***	***60.554.9***	***310.4300.2***	***0.50.4***	***48.739.1***	***14.411.6***
Phase III						
Area	*23.627.4*	*0.010.01*	*0.40.3*	*0.010.01*	*0.010.01*	0.010.01
Energy	*0.50.5*	*5.15.0*	*4.24.2*	*0.030.03*	*0.30.3*	0.30.3
Mobile	*6.39.7*	*32.443.8*	*69.4104.6*	*0.30.4*	*33.550.9*	*9.113.7*
Maximum lbs/day	***30.637.7***	***37.548.9***	***74.1109.2***	***0.30.4***	***33.951.3***	***9.514.1***
Cumulative Total	***178.2188***	***170.4166.2***	***684.8701.3***	***1.51.2***	***132.5131.3***	***38.6***37.7
SDAPCD Thresholds	*137*	*250*	*550*	*250*	*100*	67
Maximum lbs/hour	**--**	7.16.9	28.529.2	0.10.05	**--**	**--**
SDAPCD Thresholds	--	25	100	25	--	--
Maximum tons/annually	**32.534.3**	**31.1**30.3	**125.0128**	**0.3**0.25	**24.223.9**	**--**
SDAPCD Thresholds	15	40	100	40	15	--
Threshold Exceeded?	**Yes**	**No**	**Yes**	**No**	**Yes**	**No**

See Appendix for CalEEMod ver. 2016.3.2 computer model output for the proposed development. Summer emissions shown.

Note – Hourly emissions were calculated by dividing daily emissions by 24. Annual emissions were calculated by multiplying daily emissions by 365 and the dividing by 2,000.

Table 9
Combined Construction and Operational Emissions

	Estimated Emissions (lbs/day)					
	ROG	**NO_X**	**CO**	**SO_X**	**PM_{10}**	**$PM_{2.5}$**
Phase I Operational Emissions						
Maximum Daily	70.4	72.5	300.3	0.6	49.9	14.7
Phase II Construction Emissions						
Maximum Daily	*71.7*	*108.9*	*118.3*	0.5	45.0	12.4
Combined Maximum Daily Emissions	***142.1***	***181.4***	***418.6***	***1.1***	***94.9***	**27.1**
City of San Diego Screening Thresholds	*137*	*250*	*550*	*250*	*100*	67
Threshold Exceeded	*Yes*	*No*	*No*	*No*	*No*	No
Phases I/II Operational Emissions						
Phase I	70.4	72.5	300.3	0.6	49.9	14.7
Phase II	*77.2*	*60.5*	*310.4*	*0.5*	*48.7*	*14.4*
Phase III Construction Emissions						
Maximum Daily	*29.3*	50.4	51.1	0.2	10.1	2.9
Combined Maximum Daily Emissions	***176.9***	***183.4***	***661.8***	***1.3***	***108.7***	**32.0**
City of San Diego Screening Thresholds	*137*	*250*	*550*	*250*	*100*	67
Threshold Exceeded	*Yes*	*No*	*Yes*	*No*	*Yes*	No

See Appendix for CalEEMod ver. 2016.3.2 computer model output for the proposed development. Summer emissions shown.

Note – Combined maximum daily emissions calculated by adding the operational emissions to the highest daily construction emissions for each pollutant.

As shown, the overlapping construction and operational activities associated with the project would result in emissions of ROG, CO, and PM_{10} that exceed the thresholds of significance that were derived based on the attainment status of the region and set to determine whether project emissions are cumulative considerable. Thus, the project would result in a cumulatively considerable air quality impact similar to the impacts identified in Table 8 for the combined emissions associated with project buildout **(threshold c)**.

Health Risk Assessment

As referenced, an HRA was performed for operation of the proposed project assuming multifamily uses were constructed in the South District during Phase III (AECOM 2020).

The maximum cancer risk levels for the new sensitive receptors in the South District would exceed 10 in 1 million because of existing and future traffic volumes from Interstate-8. The exceedances would occur on the floor 1-4 of any residential building within 735 feet of Interstate 8 on the project site as measured from the edge of the closest lane of Interstate 8 to the existing grass and sidewalk border of Hotel Circle North in its current configuration.

Implementation of Riverwalk Specific Plan Regulations 196 through 199, would be required if residences were constructed within 735 feet of Interstate 8 assuming there are no non-residential buildings acting as a barrier between I-8 and the potential residences. Alternately, if residences were constructed beyond this distance the cancer risk levels would be below the 10 in a million threshold and additional Regulations would not be required. With implementation of Riverwalk Specific Regulations 196, 197 and 198, impacts related to the exposure of sensitive receptors to pollutants generated by traffic operating on Interstate 8 would be less than significant.

> **Riverwalk Specific Plan Regulation 196.** Install air filtration devices rated minimum efficiency reporting value (MERV-13) or higher 13 in the intake of ventilation systems for residences constructed in the South District. Heating, air conditioning, and ventilation (HVAC) systems shall be installed with a fan unit designed to force air through the MERV filter. Prior to issuance of building permits, the project applicant shall submit evidence to the City of San Diego to ensure compliance with this measure. To ensure long-term maintenance and replacement of the MERV filters in the individual residential units, the owner/property manager of residential units shall maintain and replace MERV filters in accordance with the manufacturer's recommendations. The owner/property manager shall keep a record of activities related to maintenance of the filters.
>
> **Riverwalk Specific Plan Regulation 197.** If residential buildings are proposed adjacent to Hotel Circle North, a 10-foot landscape buffer shall be provided on the southern border of the property adjacent to Hotel Circle North.
>
> **Riverwalk Specific Plan Regulation 198.** Design residential buildings so that the air intakes do not occur on the southern side of buildings.
>
> **Riverwalk Specific Plan Regulation 199.** Residential units shall be set back a minimum of 100 feet from I-8, not including off ramps.

With implementation of these regulations, health risks associated with diesel particulate matter from vehicular emissions generated by traffic on Interstate 8 would be reduced to **less than significant (threshold d).**

Objectionable Odors

The proposed project would involve the use of diesel-powered construction equipment. Diesel exhaust may be noticeable temporarily at adjacent properties; however, construction activities would be temporary. The project does not include industrial or agricultural uses that are typically associated with objectionable odors. The project would include filtered HVAC systems throughout the building(s) and ventilation filters/hoods for the kitchen areas to avoid or minimize odors associated with food preparation within the commercial/retail buildings. **Therefore, impacts associated with objectionable odors (significance threshold e) would be less than significant.**

Local Carbon Monoxide Emissions

As previously discussed, carbon monoxide is a colorless, odorless, poisonous gas that may be found in high concentrations near areas of high traffic volumes. CO emissions are a function of vehicle idling time, meteorological conditions, and traffic flow. The SDAB is in attainment of state and federal CO standards; thus, CO data is no longer collected and not all monitoring stations have CO data available. The 1110 Beardsley Street monitoring station in the Barrio Logan community is the closest monitoring station to the site that provides CO data. The maximum 8-hour average CO level recorded in 2012 (the last year data were recorded) was 1.81 parts per million (ppm). Concentrations are below the 9-ppm state and federal 8-hour standard.

Although CO is not a regional air quality concern in SDAB, elevated CO levels can occur at or near intersections that experience severe traffic congestion. A localized air quality impact is considered significant if the additional CO emissions resulting from the project create a "hot spot" where the California 1-hour standard of 20.0 ppm or the 8-hour standard of 9 ppm is exceeded. This can occur at severely congested intersections during cold winter temperatures.

Because of more stringent requirements for cleaner vehicles, equipment, and fuels, CO levels across California have dropped substantially. All air basins are attainment or maintenance areas for CO. Therefore, recent screening procedures based on current methodologies have been developed. The Sacramento Metropolitan Air Quality Management District (SMAQMD) developed a screening threshold in 2011, which states that any project involving an intersection with 31,600 vehicles per hour or more will require detailed analysis. In 2010, the Bay Area Air Quality Management District developed a screening threshold that states that any project affecting an intersection with 44,000 vehicles per hour would require detailed analysis. Sacramento and San Diego have the same federal and State CO attainment designations; and thus, experience similar concentrations of CO. Screening volumes are appropriate for evaluating CO impacts in the SDAB. This analysis conservatively assesses potential CO hot spots using the lower SMAQMD screening threshold of 31,600 vehicles per hour. This screening

volume has also been utilized by the South Coast Air Quality Management District, which also has the same CO designation.

The proposed project was evaluated for CO hotspots under full build out conditions in the year 2035 based on projected peak hour volumes provided in the Mobility Assessment prepared for the project (Linscott, Law and Greenspan, Inc., and Urban Systems Associates, Inc., March 2020). The threshold of 31,600 vehicles per hour referenced would not be met at any of the intersections evaluated in the Traffic Impact Assessment. Therefore, the project would not result in CO hot spots~~. Impacts~~ and this impact would be **less than significant** (**threshold d**). No further evaluation with respect to CO hotspots is required.

SIP/AQMP/RAQS Consistency

As noted, the RAQS relies on information from CARB and SANDAG, including projected growth in the County, mobile, area and all other source emissions to project future emissions and determine from that, the strategies necessary for the reduction of stationary source emissions through regulatory controls. Projects that propose development that is consistent with the growth anticipated by the general plan is consistent with the SIP, AQMP and RAQS.

As referenced, the Riverwalk Specific Plan area is zoned CC-3-9 (Commercial—Community) in the central, northeastern, and southeastern portions of the site; RM-4-10 (Residential—Multiple Unit) in the northwestern and northeastern portions of the site; OP-1-1 (Open Space—Park) in the central portion of the site, and OC-1-1 (Open Space – Conservation) in the central portion of the site.

The project site is designated Multiple Use; Commercial Employment, Retail, and Services; and Parks, Open Space, and Recreation in the City of San Diego General Plan. The approved Levi-Cushman Specific Plan identifies the site for a mix of residential, retail, office, hotel, and recreational use. Relative to the approved Levi Cushman Specific, the project would result in fewer daily vehicle trips because there is less office development, no hotel, and more residential density than what is approved. In addition, the project would provide more park land and open space that what was approved in the Levi Cushman Specific Plan.

Projects that propose development that is consistent with the growth anticipated by the General Plan are considered ~~-~~consistent with the SIP, AQMP and RAQS.

While the project would at build out, result in cumulatively significant air quality impacts associated with ROG, ~~-~~CO~~,~~ and PM_{10} emissions generated by Phases I, II and III, the emissions would be less than what has been approved for the site and consistent with what has been approved in the General Plan, Levi Cushman Specific Plan and approved Mission Valley Community Plan (2019). However, it is understood that in general, the San Diego Air Basin (SDAB) is used as the geographic scope for evaluating cumulative air quality impacts. It is appropriate to consider the entire air basin as air emissions can travel substantial distances and are not confined by jurisdictional boundaries. Rather, they are influenced by large-scale climatic

and topographic features. While some air emissions can be localized, such as a CO hotspots or odor, the overall consideration of cumulative air quality is typically more regional. By its very nature, air pollution is largely a cumulative impact.

The project and other development projects in the SDAB would emit particulates and the ozone precursors ROG and NOx during the same (short-term) period of construction. Construction of the proposed project would not violate air quality standards or contribute substantially to an existing or projected air quality violation. Construction emissions from the project would be less than the significance thresholds (as shown in Table 5 through 7), which take into consideration the cumulative contributions of a project. Thus, the project would not result in cumulative impacts associated with air quality during construction.

As shown in Tables 8 and 9, the project's emissions would exceed the daily and annual ROG, CO, and PM_{10} standards, resulting in a cumulatively considerable significant air quality impact. As described previously, the project's operational emissions already account for the recommended measures identified by CAPCOA for reducing air emissions (such as increasing density from existing conditions, (LUT-1), location efficiency (LUT-2), diversity of uses (LUT-3), destination accessibility (LUT-4), transit accessibility (LUT-5), etc.). As explained previously, the analysis conservatively did not account for reductions associated with implementation of the TDM Program. Based on the size and scope of the project, there are no feasible mitigation measures that can be implemented to reduce operational emissions that exceed SDAPCD thresholds to below the thresholds and still meet project objectives.

The proposed project was included in the build-out scenario evaluated in the Mission Valley Community Plan Update (CPU) Program EIR. The Mission Valley CPU Program EIR found that cumulative air quality impacts resulting from operational emissions would be significant and unmitigable because the City lacks control over SDAPCD's timeline to update the RAQS and SIP.

The conclusions presented herein are consistent with the CPU Program EIR and the project would not generate impacts that were not previously anticipated or greater than what was previously approved for the site as part of the Levi Cushman Specific Plan. Further, the project is consistent with the City of San Diego General Plan.

Thus, from an air quality perspective, ~~Therefore,~~ the proposed project would not cause or contribute to a conflict with the AQMP, RAQS, or SIP~~.~~ (**threshold a**).

CONCLUSION

As discussed herein, project related emissions would exceed the ~~SDAPCD~~daily and ~~City of San Diego thresholds during operation. The project would not exceed~~annual ROG, CO, and PM_{10} standards~~ during construction of the three phases.~~, resulting cumulatively considerable significant air quality impact. ~~Construction impacts during the painting phase of the project are avoided due to the overlapping of painting and building construction and/or extending~~

~~painting after building construction is completed for Phases I, II and III.~~ The phasing and sequencing of construction of each phase was based on assumptions provided by Clark Construction on methods that reflect industry best practices and the most likely buildout of the project. Operational impacts primarily related to traffic and area source (i.e., consumer products, architectural coatings and landscape equipment) emissions generated by the project are significant and unmitigable due to the size and scope of the project. Given that the project's operational emissions consider the project's inherent VMT-reducing features such as increasing density from existing conditions, (LUT-1), location efficiency (LUT-2), diversity of uses (LUT-3), destination accessibility (LUT-4), transit accessibility (LUT-5), ~~Given the size and scope of the proposed project,~~ there are no feasible measures that can be implemented to reduce emissions that exceed SDAPCD standards to below the standards during operation. The proposed project is consistent with the City of San Diego General Plan, is smaller in scope than the approved Levi Cushman Specific Plan and would not create impacts that were not anticipated in the Mission Valley CPU Program EIR. ~~The~~ Thus, the proposed project would not conflict with the SIP, AQMP, or RAQS~~. The project would not~~ nor would it produce objectionable odors during operation.

The project would be required to comply with SDAPCD Rules 52 and 54 during grading and other ground disturbing activities. These rules provide measures for reducing fugitive dust and is required to be implemented at all construction sites located within the SDAB. The project would also be required to use architectural coatings that are consistent with SDAPCD Rule 67 to minimize ROG (i.e., volatile organic compound [VOC]) emissions. This would be considered a standard condition. The project would be required to use Tier 3 diesel powered equipment with Level 3 Diesel Particulate Filters for all equipment over 50 horsepower as specified in Regulation 132 of the Specific Plan during construction activities; thus, the project would not expose off-site and on-site sensitive receptors to substantial pollutant concentrations.

Future residential development that could occur in the South District would be located within 500 feet of Interstate 8. Residents of the South District could be exposed to levels of particulate matter from vehicular emissions associated with traffic on Interstate 8. To preclude the potential for significant health risks to sensitive receptors, Regulations 196, 197 and 198 ~~specific measures~~ are included in the Specific Plan and described herein. These regulations ~~that~~ would apply to future residential development in the South District to reduce potential health risk to ~~such that health risk impacts would be~~ less than significant.

REFERENCES

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City of San Diego, *California Environmental Quality Act Significance Determination Thresholds*, Development Services Department, January 2011.

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Appendix A

CalEEMod Air Emission Model Results –
Summer Emissions for Construction and Operation
Overlap Phasing

Riverwalk Phase I Overlap

San Diego County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Office Park	65.00	1000sqft	1.49	65,000.00	0
Enclosed Parking with Elevator	3,079.00	Space	27.71	1,231,600.00	0
Parking Lot	441.00	Space	3.97	176,400.00	0
City Park	4.76	Acre	4.76	207,345.60	0
Apartments High Rise	1,910.00	Dwelling Unit	30.81	1,910,000.00	5463
Strip Mall	110.30	1000sqft	2.53	110,300.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.6	**Precipitation Freq (Days)**	40
Climate Zone	13			**Operational Year**	2025
Utility Company	San Diego Gas & Electric				
CO2 Intensity (lb/MWhr)	720.49	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use -

Construction Phase - Default construction duration adjusted to reflect applicant's phasing.

Off-road Equipment -

Off-road Equipment - Defaults modified based on contractor input

Off-road Equipment - Defaults modified based on contractor input. "other construction equipment" to account for breakers.

Off-road Equipment -

Off-road Equipment - Defaults modified based on contractor input

Off-road Equipment - Defaults modified based on contractor input

Off-road Equipment -

Off-road Equipment - Defaults modified to reflect contractor recommendations.

Off-road Equipment - "other construction equipment" to account for breakers

Trips and VMT - Data modifed to reflect construction schedule. Import haul trips assume 20 yard trucks

Demolition -

Grading - Default acres graded. Site Prep acres graded based on Appendix A. Calc Details.

Architectural Coating - Rule 67 100 g/L VOC emissions for painting

Vehicle Trips - Trip rates adjusted to include total net new cumulative trips as described in TIA.

Woodstoves - Assumes 5% of DU to have natural gas hearths.

Area Coating - 100 g/L VOC per APCD Rule 67 for interior and exterior architectural coating

Construction Off-road Equipment Mitigation - Assumes Tier 3 and Level 3 DPF and watering twice per day.

Area Mitigation -

Water Mitigation -

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

tblArchitecturalCoating	EF_Residential_Exterior	250.00	100.00
tblArchitecturalCoating	EF_Residential_Interior	250.00	100.00
tblAreaCoating	Area_EF_Nonresidential_Exterior	250	100
tblAreaCoating	Area_EF_Nonresidential_Interior	250	100
tblAreaCoating	Area_EF_Parking	250	100
tblAreaCoating	Area_EF_Residential_Exterior	250	100
tblAreaCoating	Area_EF_Residential_Interior	250	100
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
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tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	5.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00

tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	9.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	12.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	6.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	17.00
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
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tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3

Riverwalk Phase I Overlap - San Diego County, Summer

tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstructionPhase	NumDays	75.00	413.00
tblConstructionPhase	NumDays	1,110.00	1,061.00
tblConstructionPhase	NumDays	70.00	30.00
tblConstructionPhase	NumDays	110.00	264.00
tblConstructionPhase	NumDays	110.00	263.00
tblConstructionPhase	NumDays	75.00	43.00
tblConstructionPhase	NumDays	40.00	60.00
tblConstructionPhase	NumDays	40.00	60.00
tblFireplaces	NumberGas	1,050.50	96.00
tblFireplaces	NumberWood	668.50	0.00
tblGrading	AcresOfGrading	0.00	180.00
tblGrading	AcresOfGrading	0.00	180.00
tblGrading	MaterialImported	0.00	200,000.00
tblGrading	MaterialImported	0.00	150,000.00
tblGrading	MaterialImported	0.00	200,000.00
tblGrading	MaterialImported	0.00	150,000.00
tblOffRoadEquipment	HorsePower	172.00	16.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	3.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	3.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00

tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	PhaseName		Site Preparation
tblOffRoadEquipment	PhaseName		Grading
tblOffRoadEquipment	PhaseName		Site Prep Overlap
tblOffRoadEquipment	PhaseName		Grading Overlap
tblOffRoadEquipment	PhaseName		Grading
tblOffRoadEquipment	PhaseName		Site Preparation
tblOffRoadEquipment	PhaseName		Grading
tblTripsAndVMT	HaulingTripNumber	45.00	40.00
tblTripsAndVMT	HaulingTripNumber	25,000.00	20,000.00
tblTripsAndVMT	HaulingTripNumber	25,000.00	20,000.00
tblTripsAndVMT	HaulingTripNumber	45.00	40.00
tblTripsAndVMT	HaulingTripNumber	18,750.00	15,000.00
tblTripsAndVMT	HaulingTripNumber	18,750.00	15,000.00
tblTripsAndVMT	WorkerTripNumber	25.00	20.00
tblTripsAndVMT	WorkerTripNumber	25.00	13.00
tblTripsAndVMT	WorkerTripNumber	33.00	43.00
tblTripsAndVMT	WorkerTripNumber	20.00	18.00
tblTripsAndVMT	WorkerTripNumber	23.00	20.00
tblVehicleTrips	ST_TR	4.98	7.82
tblVehicleTrips	ST_TR	22.75	0.00
tblVehicleTrips	ST_TR	1.64	0.00
tblVehicleTrips	ST_TR	42.04	0.00
tblVehicleTrips	SU_TR	3.65	7.82
tblVehicleTrips	SU_TR	16.74	0.00

tblVehicleTrips	SU_TR	0.76	0.00
tblVehicleTrips	SU_TR	20.43	0.00
tblVehicleTrips	WD_TR	4.20	7.82
tblVehicleTrips	WD_TR	1.89	0.00
tblVehicleTrips	WD_TR	11.42	0.00
tblVehicleTrips	WD_TR	44.32	0.00
tblWoodstoves	NumberCatalytic	95.50	0.00
tblWoodstoves	NumberNoncatalytic	95.50	0.00

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2021	19.7296	183.7101	155.3024	0.5300	33.6027	5.4347	38.7641	12.0376	5.0159	16.3730	0.0000	53,940.2642	53,940.2642	6.5635	0.0000	54,104.3508
2022	17.9774	162.8328	147.0033	0.5213	36.4122	4.3467	40.7588	10.6344	4.0446	14.6790	0.0000	53,088.6526	53,088.6526	6.4795	0.0000	53,250.6391
2023	10.5147	69.1294	87.4913	0.3412	20.7044	1.4537	22.1581	5.5680	1.3743	6.9423	0.0000	34,858.1976	34,858.1976	2.3584	0.0000	34,917.1584
2024	78.2934	136.8396	130.2336	0.5973	82.9105	2.7963	85.7068	22.3972	2.6101	25.0073	0.0000	62,234.6885	62,234.6885	5.6696	0.0000	62,376.4293
2025	78.2208	112.6489	137.7737	0.4967	34.2202	2.8534	37.0736	10.4484	2.6575	13.1060	0.0000	50,566.1364	50,566.1364	5.7137	0.0000	50,708.9792
Maximum	**78.2934**	**183.7101**	**155.3024**	**0.5973**	**82.9105**	**5.4347**	**85.7068**	**22.3972**	**5.0159**	**25.0073**	**0.0000**	**62,234.6885**	**62,234.6885**	**6.5635**	**0.0000**	**62,376.4293**

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					
2021	13.6172	153.2954	171.0155	0.5300	27.6073	0.9160	28.5233	7.8319	0.8992	8.7311	0.0000	53,940.2642	53,940.2642	6.5635	0.0000	54,104.3508
2022	13.0448	148.3870	166.2752	0.5213	30.4168	0.8792	31.2959	8.5215	0.8635	9.3851	0.0000	53,088.6526	53,088.6526	6.4795	0.0000	53,250.6390
2023	8.9841	67.2977	92.2585	0.3412	20.7044	0.4341	21.1385	5.5680	0.4230	5.9911	0.0000	34,858.1976	34,858.1976	2.3584	0.0000	34,917.1584
2024	75.1021	131.5203	145.2230	0.5973	78.0961	0.7018	78.7945	20.4125	0.6859	21.0975	0.0000	62,234.6885	62,234.6885	5.6696	0.0000	62,376.4293
2025	75.2037	122.1850	159.0395	0.4967	29.4058	0.7803	30.1861	8.4637	0.7670	9.2307	0.0000	50,566.1364	50,566.1364	5.7137	0.0000	50,708.9792
Maximum	**75.2037**	**153.2954**	**171.0155**	**0.5973**	**78.0961**	**0.9160**	**78.7945**	**20.4125**	**0.8992**	**21.0975**	**0.0000**	**62,234.6885**	**62,234.6885**	**6.5635**	**0.0000**	**62,376.4293**

	ROG	NOx	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	**9.17**	**6.39**	**-11.55**	**0.00**	**10.40**	**78.02**	**15.38**	**16.84**	**76.83**	**28.48**	**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	57.1838	3.4093	158.4826	0.0185		1.0036	1.0036		1.0036	1.0036	0.0000	2,317.4858	2,317.4858	0.3128	0.0373	2,336.4120
Energy	0.4886	4.2132	2.0542	0.0267		0.3376	0.3376		0.3376	0.3376		5,330.2055	5,330.2055	0.1022	0.0977	5,361.8802
Mobile	20.5939	77.8269	243.2322	0.9351	90.3793	0.7018	91.0811	24.1502	0.6527	24.8029		95,351.1475	95,351.1475	4.5155		95,464.0351
Total	**78.2663**	**85.4493**	**403.7690**	**0.9802**	**90.3793**	**2.0430**	**92.4223**	**24.1502**	**1.9939**	**26.1441**	**0.0000**	**102,998.8388**	**102,998.8388**	**4.9305**	**0.1350**	**103,162.3273**

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	57.1838	3.4093	158.4826	0.0185		1.0036	1.0036		1.0036	1.0036	0.0000	2,317.4858	2,317.4858	0.3128	0.0373	2,336.4120
Energy	0.4886	4.2132	2.0542	0.0267		0.3376	0.3376		0.3376	0.3376		5,330.2055	5,330.2055	0.1022	0.0977	5,361.8802
Mobile	20.5939	77.8269	243.2322	0.9351	90.3793	0.7018	91.0811	24.1502	0.6527	24.8029		95,351.1475	95,351.1475	4.5155		95,464.0351
Total	**78.2663**	**85.4493**	**403.7690**	**0.9802**	**90.3793**	**2.0430**	**92.4223**	**24.1502**	**1.9939**	**26.1441**	**0.0000**	**102,998.8388**	**102,998.8388**	**4.9305**	**0.1350**	**103,162.3273**

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

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	1/4/2021	4/9/2021	5	70	
2	Site Preparation	Site Preparation	1/4/2021	3/26/2021	5	60	
3	Grading	Grading	3/29/2021	3/31/2022	5	264	
4	Building Construction	Building Construction	11/6/2021	12/1/2025	5	1061	
5	Architectural Coating	Architectural Coating	6/1/2024	12/31/2025	5	413	
6	Demolition Overlap	Demolition	8/15/2024	9/25/2024	5	30	
7	Site Prep Overlap	Site Preparation	10/1/2024	12/23/2024	5	60	
8	Grading Overlap	Grading	12/26/2024	12/29/2025	5	263	
9	Paving	Paving	9/1/2025	10/29/2025	5	43	

Acres of Grading (Site Preparation Phase): 180

Acres of Grading (Grading Phase): 1188

Acres of Paving: 31.68

Residential Indoor: 3,867,750; Residential Outdoor: 1,289,250; Non-Residential Indoor: 262,950; Non-Residential Outdoor: 87,650; Striped Parking Area: 84,480 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Bore/Drill Rigs	1	8.00	221	0.50

Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Excavators	2	8.00	158	0.38
Demolition	Other Construction Equipment	2	8.00	172	0.42
Demolition	Rubber Tired Dozers	2	8.00	247	0.40
Demolition	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Site Preparation	Bore/Drill Rigs	1	6.00	221	0.50
Site Preparation	Other Construction Equipment	2	8.00	16	0.42
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Bore/Drill Rigs	1	8.00	221	0.50
Grading	Excavators	2	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Off-Highway Tractors	1	8.00	124	0.44
Grading	Rollers	1	8.00	80	0.38
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Scrapers	4	8.00	367	0.48
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Building Construction	Cranes	3	7.00	231	0.29
Building Construction	Forklifts	4	8.00	89	0.20
Building Construction	Generator Sets	3	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
Architectural Coating	Air Compressors	1	6.00	78	0.48
Demolition Overlap	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition Overlap	Excavators	3	8.00	158	0.38
Demolition Overlap	Rubber Tired Dozers	2	8.00	247	0.40
Site Prep Overlap	Bore/Drill Rigs	1	8.00	221	0.50

Site Prep Overlap	Rubber Tired Dozers	3	8.00	247	0.40
Site Prep Overlap	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading Overlap	Bore/Drill Rigs	1	8.00	221	0.50
Grading Overlap	Excavators	2	8.00	158	0.38
Grading Overlap	Graders	1	8.00	187	0.41
Grading Overlap	Rubber Tired Dozers	1	8.00	247	0.40
Grading Overlap	Scrapers	2	8.00	367	0.48
Grading Overlap	Tractors/Loaders/Backhoes	2	8.00	97	0.37
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

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	10	20.00	0.00	40.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	10	13.00	0.00	20,000.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	13	43.00	0.00	20,000.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	14	2,110.00	498.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	422.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Demolition Overlap	6	15.00	0.00	40.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Prep Overlap	8	18.00	0.00	15,000.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading Overlap	9	20.00	0.00	15,000.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Use DPF for Construction Equipment

Water Exposed Area

3.2 Demolition - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.1424	0.0000	0.1424	0.0216	0.0000	0.0216			0.0000			0.0000
Off-Road	4.4084	44.8635	32.9979	0.0617		2.2203	2.2203		2.0565	2.0565		5,958.6644	5,958.6644	1.7699		6,002.9116
Total	**4.4084**	**44.8635**	**32.9979**	**0.0617**	**0.1424**	**2.2203**	**2.3627**	**0.0216**	**2.0565**	**2.0781**		**5,958.6644**	**5,958.6644**	**1.7699**		**6,002.9116**

3.2 Demolition - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	4.2400e-003	0.1465	0.0358	4.4000e-004	9.9800e-003	4.5000e-004	0.0104	2.7400e-003	4.3000e-004	3.1600e-003		48.3246	48.3246	4.2700e-003		48.4313
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0692	0.0449	0.5305	1.6300e-003	0.1643	1.1300e-003	0.1654	0.0436	1.0500e-003	0.0446		162.8882	162.8882	4.6500e-003		163.0044
Total	**0.0734**	**0.1914**	**0.5663**	**2.0700e-003**	**0.1743**	**1.5800e-003**	**0.1759**	**0.0463**	**1.4800e-003**	**0.0478**		**211.2128**	**211.2128**	**8.9200e-003**		**211.4357**

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					0.0641	0.0000	0.0641	9.7000e-003	0.0000	9.7000e-003			0.0000			0.0000
Off-Road	1.4891	29.7583	39.9354	0.0617		0.2166	0.2166		0.2166	0.2166	0.0000	5,958.6644	5,958.6644	1.7699		6,002.9116
Total	**1.4891**	**29.7583**	**39.9354**	**0.0617**	**0.0641**	**0.2166**	**0.2807**	**9.7000e-003**	**0.2166**	**0.2263**	**0.0000**	**5,958.6644**	**5,958.6644**	**1.7699**		**6,002.9116**

3.2 Demolition - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	4.2400e-003	0.1465	0.0358	4.4000e-004	9.9800e-003	4.5000e-004	0.0104	2.7400e-003	4.3000e-004	3.1600e-003		48.3246	48.3246	4.2700e-003		48.4313
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0692	0.0449	0.5305	1.6300e-003	0.1643	1.1300e-003	0.1654	0.0436	1.0500e-003	0.0446		162.8882	162.8882	4.6500e-003		163.0044
Total	**0.0734**	**0.1914**	**0.5663**	**2.0700e-003**	**0.1743**	**1.5800e-003**	**0.1759**	**0.0463**	**1.4800e-003**	**0.0478**		**211.2128**	**211.2128**	**8.9200e-003**		**211.4357**

3.3 Site Preparation - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					21.7162	0.0000	21.7162	10.3451	0.0000	10.3451			0.0000			0.0000
Off-Road	4.3211	43.9262	23.9678	0.0464		2.2036	2.2036		2.0273	2.0273		4,494.8100	4,494.8100	1.4537		4,531.1528
Total	**4.3211**	**43.9262**	**23.9678**	**0.0464**	**21.7162**	**2.2036**	**23.9198**	**10.3451**	**2.0273**	**12.3725**		**4,494.8100**	**4,494.8100**	**1.4537**		**4,531.1528**

3.3 Site Preparation - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	2.4743	85.4443	20.9034	0.2571	5.8246	0.2607	6.0853	1.5963	0.2494	1.8457		28,189.3430	28,189.3430	2.4901		28,251.5956
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0450	0.0292	0.3448	1.0600e-003	0.1068	7.4000e-004	0.1075	0.0283	6.8000e-004	0.0290		105.8773	105.8773	3.0200e-003		105.9529
Total	**2.5193**	**85.4735**	**21.2482**	**0.2581**	**5.9314**	**0.2615**	**6.1928**	**1.6246**	**0.2501**	**1.8747**		**28,295.2203**	**28,295.2203**	**2.4931**		**28,357.5485**

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					9.7723	0.0000	9.7723	4.6553	0.0000	4.6553			0.0000			0.0000
Off-Road	1.1066	22.4567	26.7604	0.0464		0.1612	0.1612		0.1612	0.1612	0.0000	4,494.8100	4,494.8100	1.4537		4,531.1528
Total	**1.1066**	**22.4567**	**26.7604**	**0.0464**	**9.7723**	**0.1612**	**9.9335**	**4.6553**	**0.1612**	**4.8165**	**0.0000**	**4,494.8100**	**4,494.8100**	**1.4537**		**4,531.1528**

3.3 Site Preparation - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	2.4743	85.4443	20.9034	0.2571	5.8246	0.2607	6.0853	1.5963	0.2494	1.8457		28,189.3430	28,189.3430	2.4901		28,251.5956
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0450	0.0292	0.3448	1.0600e-003	0.1068	7.4000e-004	0.1075	0.0283	6.8000e-004	0.0290		105.8773	105.8773	3.0200e-003		105.9529
Total	**2.5193**	**85.4735**	**21.2482**	**0.2581**	**5.9314**	**0.2615**	**6.1928**	**1.6246**	**0.2501**	**1.8747**		**28,295.2203**	**28,295.2203**	**2.4931**		**28,357.5485**

3.4 Grading - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					10.9008	0.0000	10.9008	3.8416	0.0000	3.8416			0.0000			0.0000
Off-Road	6.7467	75.3117	51.9403	0.1091		3.1511	3.1511		2.8990	2.8990		10,564.0997	10,564.0997	3.4166		10,649.5158
Total	**6.7467**	**75.3117**	**51.9403**	**0.1091**	**10.9008**	**3.1511**	**14.0519**	**3.8416**	**2.8990**	**6.7407**		**10,564.0997**	**10,564.0997**	**3.4166**		**10,649.5158**

3.4 Grading - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.5623	19.4192	4.7508	0.0584	1.6443	0.0593	1.7035	0.4415	0.0567	0.4981		6,406.6689	6,406.6689	0.5659		6,420.8172
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1487	0.0966	1.1405	3.5100e-003	0.3532	2.4400e-003	0.3557	0.0937	2.2500e-003	0.0959		350.2096	350.2096	9.9900e-003		350.4594
Total	**0.7111**	**19.5158**	**5.8913**	**0.0619**	**1.9975**	**0.0617**	**2.0592**	**0.5352**	**0.0589**	**0.5941**		**6,756.8784**	**6,756.8784**	**0.5759**		**6,771.2766**

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					4.9054	0.0000	4.9054	1.7287	0.0000	1.7287			0.0000			0.0000
Off-Road	2.6824	52.6173	63.4900	0.1091		0.3343	0.3343		0.3343	0.3343	0.0000	10,564.0997	10,564.0997	3.4166		10,649.5158
Total	**2.6824**	**52.6173**	**63.4900**	**0.1091**	**4.9054**	**0.3343**	**5.2396**	**1.7287**	**0.3343**	**2.0630**	**0.0000**	**10,564.0997**	**10,564.0997**	**3.4166**		**10,649.5158**

3.4 Grading - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.5623	19.4192	4.7508	0.0584	1.6443	0.0593	1.7035	0.4415	0.0567	0.4981		6,406.6689	6,406.6689	0.5659		6,420.8172
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1487	0.0966	1.1405	3.5100e-003	0.3532	2.4400e-003	0.3557	0.0937	2.2500e-003	0.0959		350.2096	350.2096	9.9900e-003		350.4594
Total	**0.7111**	**19.5158**	**5.8913**	**0.0619**	**1.9975**	**0.0617**	**2.0592**	**0.5352**	**0.0589**	**0.5941**		**6,756.8784**	**6,756.8784**	**0.5759**		**6,771.2766**

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					10.9008	0.0000	10.9008	3.8416	0.0000	3.8416			0.0000			0.0000
Off-Road	5.8762	62.8771	48.7603	0.1092		2.6086	2.6086		2.3999	2.3999		10,574.6367	10,574.6367	3.4201		10,660.1380
Total	**5.8762**	**62.8771**	**48.7603**	**0.1092**	**10.9008**	**2.6086**	**13.5094**	**3.8416**	**2.3999**	**6.2415**		**10,574.6367**	**10,574.6367**	**3.4201**		**10,660.1380**

3.4 Grading - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.5280	17.7703	4.7215	0.0575	4.4538	0.0502	4.5040	1.1311	0.0480	1.1791		6,323.0919	6,323.0919	0.5604		6,337.1008
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1406	0.0881	1.0606	3.3800e-003	0.3532	2.3900e-003	0.3556	0.0937	2.2000e-003	0.0959		337.3607	337.3607	9.1600e-003		337.5898
Total	**0.6686**	**17.8585**	**5.7821**	**0.0609**	**4.8070**	**0.0526**	**4.8596**	**1.2248**	**0.0502**	**1.2750**		**6,660.4526**	**6,660.4526**	**0.5695**		**6,674.6906**

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					4.9054	0.0000	4.9054	1.7287	0.0000	1.7287			0.0000			0.0000
Off-Road	2.6824	52.6173	63.4900	0.1092		0.3343	0.3343		0.3343	0.3343	0.0000	10,574.6367	10,574.6367	3.4201		10,660.1380
Total	**2.6824**	**52.6173**	**63.4900**	**0.1092**	**4.9054**	**0.3343**	**5.2396**	**1.7287**	**0.3343**	**2.0630**	**0.0000**	**10,574.6367**	**10,574.6367**	**3.4201**		**10,660.1380**

3.4 Grading - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.5280	17.7703	4.7215	0.0575	4.4538	0.0502	4.5040	1.1311	0.0480	1.1791		6,323.0919	6,323.0919	0.5604		6,337.1008
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1406	0.0881	1.0606	3.3800e-003	0.3532	2.3900e-003	0.3556	0.0937	2.2000e-003	0.0959		337.3607	337.3607	9.1600e-003		337.5898
Total	**0.6686**	**17.8585**	**5.7821**	**0.0609**	**4.8070**	**0.0526**	**4.8596**	**1.2248**	**0.0502**	**1.2750**		**6,660.4526**	**6,660.4526**	**0.5695**		**6,674.6906**

3.5 Building Construction - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	3.4676	33.4299	28.5825	0.0517		1.7223	1.7223		1.6307	1.6307		4,925.2567	4,925.2567	1.0437		4,951.3496
Total	**3.4676**	**33.4299**	**28.5825**	**0.0517**		**1.7223**	**1.7223**		**1.6307**	**1.6307**		**4,925.2567**	**4,925.2567**	**1.0437**		**4,951.3496**

3.5 Building Construction - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	1.5058	50.7111	12.9231	0.1349	3.3713	0.1065	3.4778	0.9705	0.1019	1.0723		14,509.3269	14,509.3269	1.0367		14,535.2454
Worker	7.2983	4.7416	55.9653	0.1724	17.3332	0.1197	17.4529	4.5976	0.1103	4.7079		17,184.7025	17,184.7025	0.4904		17,196.9634
Total	**8.8041**	**55.4527**	**68.8884**	**0.3073**	**20.7044**	**0.2263**	**20.9307**	**5.5680**	**0.2122**	**5.7802**		**31,694.0294**	**31,694.0294**	**1.5272**		**31,732.2088**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.4196	25.7095	32.7459	0.0517		0.2938	0.2938		0.2938	0.2938	0.0000	4,925.2567	4,925.2567	1.0437		4,951.3496
Total	**1.4196**	**25.7095**	**32.7459**	**0.0517**		**0.2938**	**0.2938**		**0.2938**	**0.2938**	**0.0000**	**4,925.2567**	**4,925.2567**	**1.0437**		**4,951.3496**

3.5 Building Construction - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	1.5058	50.7111	12.9231	0.1349	3.3713	0.1065	3.4778	0.9705	0.1019	1.0723		14,509.3269	14,509.3269	1.0367		14,535.2454
Worker	7.2983	4.7416	55.9653	0.1724	17.3332	0.1197	17.4529	4.5976	0.1103	4.7079		17,184.7025	17,184.7025	0.4904		17,196.9634
Total	**8.8041**	**55.4527**	**68.8884**	**0.3073**	**20.7044**	**0.2263**	**20.9307**	**5.5680**	**0.2122**	**5.7802**		**31,694.0294**	**31,694.0294**	**1.5272**		**31,732.2088**

3.5 Building Construction - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	3.1325	29.8495	28.1806	0.0517		1.4767	1.4767		1.3990	1.3990		4,926.3867	4,926.3867	1.0353		4,952.2695
Total	**3.1325**	**29.8495**	**28.1806**	**0.0517**		**1.4767**	**1.4767**		**1.3990**	**1.3990**		**4,926.3867**	**4,926.3867**	**1.0353**		**4,952.2695**

3.5 Building Construction - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	1.4004	47.9239	12.2394	0.1334	3.3713	0.0916	3.4629	0.9705	0.0876	1.0581		14,372.9661	14,372.9661	1.0050		14,398.0907
Worker	6.8996	4.3238	52.0409	0.1661	17.3332	0.1171	17.4503	4.5976	0.1079	4.7054		16,554.2106	16,554.2106	0.4496		16,565.4503
Total	**8.3000**	**52.2477**	**64.2803**	**0.2995**	**20.7044**	**0.2088**	**20.9132**	**5.5680**	**0.1955**	**5.7635**		**30,927.1767**	**30,927.1767**	**1.4546**		**30,963.5410**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3937	25.6635	32.7229	0.0517		0.2836	0.2836		0.2836	0.2836	0.0000	4,926.3867	4,926.3867	1.0353		4,952.2695
Total	**1.3937**	**25.6635**	**32.7229**	**0.0517**		**0.2836**	**0.2836**		**0.2836**	**0.2836**	**0.0000**	**4,926.3867**	**4,926.3867**	**1.0353**		**4,952.2695**

3.5 Building Construction - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	1.4004	47.9239	12.2394	0.1334	3.3713	0.0916	3.4629	0.9705	0.0876	1.0581		14,372.9661	14,372.9661	1.0050		14,398.0907
Worker	6.8996	4.3238	52.0409	0.1661	17.3332	0.1171	17.4503	4.5976	0.1079	4.7054		16,554.2106	16,554.2106	0.4496		16,565.4503
Total	**8.3000**	**52.2477**	**64.2803**	**0.2995**	**20.7044**	**0.2088**	**20.9132**	**5.5680**	**0.1955**	**5.7635**		**30,927.1767**	**30,927.1767**	**1.4546**		**30,963.5410**

3.5 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	2.9020	27.4529	27.9378	0.0517		1.2944	1.2944		1.2261	1.2261		4,927.2436	4,927.2436	1.0268		4,952.9141
Total	**2.9020**	**27.4529**	**27.9378**	**0.0517**		**1.2944**	**1.2944**		**1.2261**	**1.2261**		**4,927.2436**	**4,927.2436**	**1.0268**		**4,952.9141**

3.5 Building Construction - 2023

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	1.0797	37.7279	11.2116	0.1297	3.3712	0.0445	3.4157	0.9705	0.0425	1.0130		14,009.5883	14,009.5883	0.9201		14,032.5899
Worker	6.5330	3.9486	48.3419	0.1597	17.3332	0.1148	17.4480	4.5976	0.1057	4.7033		15,921.3658	15,921.3658	0.4116		15,931.6544
Total	**7.6127**	**41.6765**	**59.5535**	**0.2894**	**20.7044**	**0.1593**	**20.8637**	**5.5680**	**0.1482**	**5.7163**		**29,930.9541**	**29,930.9541**	**1.3316**		**29,964.2443**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3714	25.6212	32.7050	0.0517		0.2748	0.2748		0.2748	0.2748	0.0000	4,927.2436	4,927.2436	1.0268		4,952.9141
Total	**1.3714**	**25.6212**	**32.7050**	**0.0517**		**0.2748**	**0.2748**		**0.2748**	**0.2748**	**0.0000**	**4,927.2436**	**4,927.2436**	**1.0268**		**4,952.9141**

3.5 Building Construction - 2023

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	1.0797	37.7279	11.2116	0.1297	3.3712	0.0445	3.4157	0.9705	0.0425	1.0130		14,009.5883	14,009.5883	0.9201		14,032.5899
Worker	6.5330	3.9486	48.3419	0.1597	17.3332	0.1148	17.4480	4.5976	0.1057	4.7033		15,921.3658	15,921.3658	0.4116		15,931.6544
Total	**7.6127**	**41.6765**	**59.5535**	**0.2894**	**20.7044**	**0.1593**	**20.8637**	**5.5680**	**0.1482**	**5.7163**		**29,930.9541**	**29,930.9541**	**1.3316**		**29,964.2443**

3.5 Building Construction - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.7164	25.5489	27.7396	0.0517		1.1410	1.1410		1.0800	1.0800		4,927.7117	4,927.7117	1.0189		4,953.1851
Total	**2.7164**	**25.5489**	**27.7396**	**0.0517**		**1.1410**	**1.1410**		**1.0800**	**1.0800**		**4,927.7117**	**4,927.7117**	**1.0189**		**4,953.1851**

3.5 Building Construction - 2024

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	1.0417	37.2021	10.8620	0.1287	3.3712	0.0434	3.4146	0.9705	0.0415	1.0119		13,919.4805	13,919.4805	0.9095		13,942.2174
Worker	6.2051	3.6224	45.1981	0.1534	17.3332	0.1127	17.4459	4.5976	0.1038	4.7013		15,294.0630	15,294.0630	0.3784		15,303.5217
Total	**7.2468**	**40.8244**	**56.0600**	**0.2821**	**20.7044**	**0.1561**	**20.8605**	**5.5680**	**0.1452**	**5.7133**		**29,213.5435**	**29,213.5435**	**1.2878**		**29,245.7391**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3528	25.5814	32.6908	0.0517		0.2671	0.2671		0.2671	0.2671	0.0000	4,927.7117	4,927.7117	1.0189		4,953.1851
Total	**1.3528**	**25.5814**	**32.6908**	**0.0517**		**0.2671**	**0.2671**		**0.2671**	**0.2671**	**0.0000**	**4,927.7117**	**4,927.7117**	**1.0189**		**4,953.1851**

3.5 Building Construction - 2024

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	1.0417	37.2021	10.8620	0.1287	3.3712	0.0434	3.4146	0.9705	0.0415	1.0119		13,919.4805	13,919.4805	0.9095		13,942.2174
Worker	6.2051	3.6224	45.1981	0.1534	17.3332	0.1127	17.4459	4.5976	0.1038	4.7013		15,294.0630	15,294.0630	0.3784		15,303.5217
Total	**7.2468**	**40.8244**	**56.0600**	**0.2821**	**20.7044**	**0.1561**	**20.8605**	**5.5680**	**0.1452**	**5.7133**		**29,213.5435**	**29,213.5435**	**1.2878**		**29,245.7391**

3.5 Building Construction - 2025

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.5345	23.6230	27.5762	0.0518		0.9978	0.9978		0.9441	0.9441		4,928.5202	4,928.5202	1.0112		4,953.7992
Total	**2.5345**	**23.6230**	**27.5762**	**0.0518**		**0.9978**	**0.9978**		**0.9441**	**0.9441**		**4,928.5202**	**4,928.5202**	**1.0112**		**4,953.7992**

3.5 Building Construction - 2025

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	1.0111	36.6645	10.6498	0.1277	3.3712	0.0422	3.4134	0.9705	0.0403	1.0108		13,833.8412	13,833.8412	0.9005		13,856.3528
Worker	5.9203	3.3402	42.2196	0.1472	17.3332	0.1110	17.4441	4.5976	0.1021	4.6997		14,675.2952	14,675.2952	0.3494		14,684.0302
Total	**6.9314**	**40.0047**	**52.8694**	**0.2749**	**20.7044**	**0.1531**	**20.8575**	**5.5680**	**0.1424**	**5.7105**		**28,509.1364**	**28,509.1364**	**1.2499**		**28,540.3830**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3367	25.5427	32.6787	0.0518		0.2606	0.2606		0.2606	0.2606	0.0000	4,928.5202	4,928.5202	1.0112		4,953.7992
Total	**1.3367**	**25.5427**	**32.6787**	**0.0518**		**0.2606**	**0.2606**		**0.2606**	**0.2606**	**0.0000**	**4,928.5202**	**4,928.5202**	**1.0112**		**4,953.7992**

3.5 Building Construction - 2025

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	1.0111	36.6645	10.6498	0.1277	3.3712	0.0422	3.4134	0.9705	0.0403	1.0108		13,833.8412	13,833.8412	0.9005		13,856.3528
Worker	5.9203	3.3402	42.2196	0.1472	17.3332	0.1110	17.4441	4.5976	0.1021	4.6997		14,675.2952	14,675.2952	0.3494		14,684.0302
Total	**6.9314**	**40.0047**	**52.8694**	**0.2749**	**20.7044**	**0.1531**	**20.8575**	**5.5680**	**0.1424**	**5.7105**		**28,509.1364**	**28,509.1364**	**1.2499**		**28,540.3830**

3.6 Architectural Coating - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	62.7586					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1808	1.2188	1.8101	2.9700e-003		0.0609	0.0609		0.0609	0.0609		281.4481	281.4481	0.0159		281.8443
Total	**62.9393**	**1.2188**	**1.8101**	**2.9700e-003**		**0.0609**	**0.0609**		**0.0609**	**0.0609**		**281.4481**	**281.4481**	**0.0159**		**281.8443**

3.6 Architectural Coating - 2024

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	1.2410	0.7245	9.0396	0.0307	3.4666	0.0225	3.4892	0.9195	0.0208	0.9403		3,058.8126	3,058.8126	0.0757		3,060.7043
Total	**1.2410**	**0.7245**	**9.0396**	**0.0307**	**3.4666**	**0.0225**	**3.4892**	**0.9195**	**0.0208**	**0.9403**		**3,058.8126**	**3,058.8126**	**0.0757**		**3,060.7043**

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	62.7586					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.0594	1.3570	1.8324	2.9700e-003		0.0143	0.0143		0.0143	0.0143	0.0000	281.4481	281.4481	0.0159		281.8443
Total	**62.8180**	**1.3570**	**1.8324**	**2.9700e-003**		**0.0143**	**0.0143**		**0.0143**	**0.0143**	**0.0000**	**281.4481**	**281.4481**	**0.0159**		**281.8443**

3.6 Architectural Coating - 2024

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	1.2410	0.7245	9.0396	0.0307	3.4666	0.0225	3.4892	0.9195	0.0208	0.9403		3,058.8126	3,058.8126	0.0757		3,060.7043
Total	**1.2410**	**0.7245**	**9.0396**	**0.0307**	**3.4666**	**0.0225**	**3.4892**	**0.9195**	**0.0208**	**0.9403**		**3,058.8126**	**3,058.8126**	**0.0757**		**3,060.7043**

3.6 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	62.7586					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1709	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515		281.4481	281.4481	0.0154		281.8319
Total	**62.9294**	**1.1455**	**1.8091**	**2.9700e-003**		**0.0515**	**0.0515**		**0.0515**	**0.0515**		**281.4481**	**281.4481**	**0.0154**		**281.8319**

3.6 Architectural Coating - 2025

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	1.1841	0.6680	8.4439	0.0294	3.4666	0.0222	3.4888	0.9195	0.0204	0.9399		2,935.0591	2,935.0591	0.0699		2,936.8061
Total	**1.1841**	**0.6680**	**8.4439**	**0.0294**	**3.4666**	**0.0222**	**3.4888**	**0.9195**	**0.0204**	**0.9399**		**2,935.0591**	**2,935.0591**	**0.0699**		**2,936.8061**

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	62.7586					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.0594	1.3570	1.8324	2.9700e-003		0.0143	0.0143		0.0143	0.0143	0.0000	281.4481	281.4481	0.0154		281.8319
Total	**62.8180**	**1.3570**	**1.8324**	**2.9700e-003**		**0.0143**	**0.0143**		**0.0143**	**0.0143**	**0.0000**	**281.4481**	**281.4481**	**0.0154**		**281.8319**

3.6 Architectural Coating - 2025

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	1.1841	0.6680	8.4439	0.0294	3.4666	0.0222	3.4888	0.9195	0.0204	0.9399		2,935.0591	2,935.0591	0.0699		2,936.8061
Total	**1.1841**	**0.6680**	**8.4439**	**0.0294**	**3.4666**	**0.0222**	**3.4888**	**0.9195**	**0.0204**	**0.9399**		**2,935.0591**	**2,935.0591**	**0.0699**		**2,936.8061**

3.7 Demolition Overlap - 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					
Fugitive Dust					0.3322	0.0000	0.3322	0.0503	0.0000	0.0503			0.0000			0.0000
Off-Road	2.2437	20.8781	19.7073	0.0388		0.9602	0.9602		0.8922	0.8922		3,747.4228	3,747.4228	1.0485		3,773.6345
Total	**2.2437**	**20.8781**	**19.7073**	**0.0388**	**0.3322**	**0.9602**	**1.2924**	**0.0503**	**0.8922**	**0.9425**		**3,747.4228**	**3,747.4228**	**1.0485**		**3,773.6345**

3.7 Demolition Overlap - 2024

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	6.5400e-003	0.2102	0.0791	9.6000e-004	0.0233	3.9000e-004	0.0237	6.3800e-003	3.7000e-004	6.7600e-003		106.7591	106.7591	9.4900e-003		106.9962
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0441	0.0258	0.3213	1.0900e-003	0.1232	8.0000e-004	0.1240	0.0327	7.4000e-004	0.0334		108.7256	108.7256	2.6900e-003		108.7928
Total	**0.0507**	**0.2360**	**0.4004**	**2.0500e-003**	**0.1465**	**1.1900e-003**	**0.1477**	**0.0391**	**1.1100e-003**	**0.0402**		**215.4847**	**215.4847**	**0.0122**		**215.7891**

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					0.1495	0.0000	0.1495	0.0226	0.0000	0.0226			0.0000			0.0000
Off-Road	0.9246	18.3130	24.6739	0.0388		0.1294	0.1294		0.1294	0.1294	0.0000	3,747.4228	3,747.4228	1.0485		3,773.6345
Total	**0.9246**	**18.3130**	**24.6739**	**0.0388**	**0.1495**	**0.1294**	**0.2789**	**0.0226**	**0.1294**	**0.1521**	**0.0000**	**3,747.4228**	**3,747.4228**	**1.0485**		**3,773.6345**

3.7 Demolition Overlap - 2024

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	6.5400e-003	0.2102	0.0791	9.6000e-004	0.0233	3.9000e-004	0.0237	6.3800e-003	3.7000e-004	6.7600e-003		106.7591	106.7591	9.4900e-003		106.9962
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0441	0.0258	0.3213	1.0900e-003	0.1232	8.0000e-004	0.1240	0.0327	7.4000e-004	0.0334		108.7256	108.7256	2.6900e-003		108.7928
Total	**0.0507**	**0.2360**	**0.4004**	**2.0500e-003**	**0.1465**	**1.1900e-003**	**0.1477**	**0.0391**	**1.1100e-003**	**0.0402**		**215.4847**	**215.4847**	**0.0122**		**215.7891**

3.8 Site Prep Overlap - 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					
Fugitive Dust					21.5991	0.0000	21.5991	10.3274	0.0000	10.3274			0.0000			0.0000
Off-Road	2.8714	29.0770	20.3740	0.0476		1.2920	1.2920		1.1886	1.1886		4,605.3733	4,605.3733	1.4895		4,642.6101
Total	**2.8714**	**29.0770**	**20.3740**	**0.0476**	**21.5991**	**1.2920**	**22.8911**	**10.3274**	**1.1886**	**11.5160**		**4,605.3733**	**4,605.3733**	**1.4895**		**4,642.6101**

3.8 Site Prep Overlap - 2024

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	1.2255	39.4152	14.8246	0.1809	4.3684	0.0732	4.4415	1.1972	0.0700	1.2672		20,017.3287	20,017.3287	1.7787		20,061.7952
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0529	0.0309	0.3856	1.3100e-003	0.1479	9.6000e-004	0.1488	0.0392	8.9000e-004	0.0401		130.4707	130.4707	3.2300e-003		130.5514
Total	**1.2785**	**39.4461**	**15.2102**	**0.1823**	**4.5162**	**0.0741**	**4.5904**	**1.2364**	**0.0709**	**1.3073**		**20,147.7994**	**20,147.7994**	**1.7819**		**20,192.3465**

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					9.7196	0.0000	9.7196	4.6473	0.0000	4.6473			0.0000			0.0000
Off-Road	1.1650	23.5870	28.0271	0.0476		0.1677	0.1677		0.1677	0.1677	0.0000	4,605.3733	4,605.3733	1.4895		4,642.6101
Total	**1.1650**	**23.5870**	**28.0271**	**0.0476**	**9.7196**	**0.1677**	**9.8872**	**4.6473**	**0.1677**	**4.8150**	**0.0000**	**4,605.3733**	**4,605.3733**	**1.4895**		**4,642.6101**

3.8 Site Prep Overlap - 2024

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	1.2255	39.4152	14.8246	0.1809	4.3684	0.0732	4.4415	1.1972	0.0700	1.2672		20,017.3287	20,017.3287	1.7787		20,061.7952
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0529	0.0309	0.3856	1.3100e-003	0.1479	9.6000e-004	0.1488	0.0392	8.9000e-004	0.0401		130.4707	130.4707	3.2300e-003		130.5514
Total	**1.2785**	**39.4461**	**15.2102**	**0.1823**	**4.5162**	**0.0741**	**4.5904**	**1.2364**	**0.0709**	**1.3073**		**20,147.7994**	**20,147.7994**	**1.7819**		**20,192.3465**

3.9 Grading Overlap - 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					
Fugitive Dust					8.7535	0.0000	8.7535	3.6086	0.0000	3.6086			0.0000			0.0000
Off-Road	3.4287	34.2780	29.7612	0.0716		1.3980	1.3980		1.2862	1.2862		6,927.1120	6,927.1120	2.2404		6,983.1212
Total	**3.4287**	**34.2780**	**29.7612**	**0.0716**	**8.7535**	**1.3980**	**10.1515**	**3.6086**	**1.2862**	**4.8948**		**6,927.1120**	**6,927.1120**	**2.2404**		**6,983.1212**

3.9 Grading Overlap - 2024

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	0.2796	8.9921	3.3820	0.0413	49.8217	0.0167	49.8384	12.2575	0.0160	12.2734		4,566.6910	4,566.6910	0.4058		4,576.8354
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0588	0.0343	0.4284	1.4500e-003	0.1643	1.0700e-003	0.1654	0.0436	9.8000e-004	0.0446		144.9674	144.9674	3.5900e-003		145.0571
Total	**0.3384**	**9.0264**	**3.8105**	**0.0427**	**49.9860**	**0.0178**	**50.0038**	**12.3011**	**0.0170**	**12.3180**		**4,711.6584**	**4,711.6584**	**0.4094**		**4,721.8925**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					3.9391	0.0000	3.9391	1.6239	0.0000	1.6239			0.0000			0.0000
Off-Road	1.7570	34.4996	41.7897	0.0716		0.2206	0.2206		0.2206	0.2206	0.0000	6,927.1120	6,927.1120	2.2404		6,983.1212
Total	**1.7570**	**34.4996**	**41.7897**	**0.0716**	**3.9391**	**0.2206**	**4.1597**	**1.6239**	**0.2206**	**1.8445**	**0.0000**	**6,927.1120**	**6,927.1120**	**2.2404**		**6,983.1212**

3.9 Grading Overlap - 2024

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	0.2796	8.9921	3.3820	0.0413	49.8217	0.0167	49.8384	12.2575	0.0160	12.2734		4,566.6910	4,566.6910	0.4058		4,576.8354
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0588	0.0343	0.4284	1.4500e-003	0.1643	1.0700e-003	0.1654	0.0436	9.8000e-004	0.0446		144.9674	144.9674	3.5900e-003		145.0571
Total	**0.3384**	**9.0264**	**3.8105**	**0.0427**	**49.9860**	**0.0178**	**50.0038**	**12.3011**	**0.0170**	**12.3180**		**4,711.6584**	**4,711.6584**	**0.4094**		**4,721.8925**

3.9 Grading Overlap - 2025

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					8.7535	0.0000	8.7535	3.6086	0.0000	3.6086			0.0000			0.0000
Off-Road	3.1106	29.8083	28.3674	0.0715		1.1921	1.1921		1.0968	1.0968		6,925.5316	6,925.5316	2.2399		6,981.5280
Total	**3.1106**	**29.8083**	**28.3674**	**0.0715**	**8.7535**	**1.1921**	**9.9456**	**3.6086**	**1.0968**	**4.7054**		**6,925.5316**	**6,925.5316**	**2.2399**		**6,981.5280**

3.9 Grading Overlap - 2025

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	0.2756	8.7624	3.4294	0.0409	1.0082	0.0163	1.0245	0.2760	0.0156	0.2915		4,536.2668	4,536.2668	0.4081		4,546.4693
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0561	0.0317	0.4002	1.3900e-003	0.1643	1.0500e-003	0.1654	0.0436	9.7000e-004	0.0446		139.1023	139.1023	3.3100e-003		139.1851
Total	**0.3317**	**8.7940**	**3.8296**	**0.0423**	**1.1725**	**0.0173**	**1.1898**	**0.3196**	**0.0165**	**0.3361**		**4,675.3691**	**4,675.3691**	**0.4114**		**4,685.6544**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					3.9391	0.0000	3.9391	1.6239	0.0000	1.6239			0.0000			0.0000
Off-Road	1.7570	34.4996	41.7897	0.0715		0.2206	0.2206		0.2206	0.2206	0.0000	6,925.5316	6,925.5316	2.2399		6,981.5280
Total	**1.7570**	**34.4996**	**41.7897**	**0.0715**	**3.9391**	**0.2206**	**4.1597**	**1.6239**	**0.2206**	**1.8445**	**0.0000**	**6,925.5316**	**6,925.5316**	**2.2399**		**6,981.5280**

3.9 Grading Overlap - 2025

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	0.2756	8.7624	3.4294	0.0409	1.0082	0.0163	1.0245	0.2760	0.0156	0.2915		4,536.2668	4,536.2668	0.4081		4,546.4693
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0561	0.0317	0.4002	1.3900e-003	0.1643	1.0500e-003	0.1654	0.0436	9.7000e-004	0.0446		139.1023	139.1023	3.3100e-003		139.1851
Total	**0.3317**	**8.7940**	**3.8296**	**0.0423**	**1.1725**	**0.0173**	**1.1898**	**0.3196**	**0.0165**	**0.3361**		**4,675.3691**	**4,675.3691**	**0.4114**		**4,685.6544**

3.10 Paving - 2025

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.9152	8.5816	14.5780	0.0228		0.4185	0.4185		0.3850	0.3850		2,206.7452	2,206.7452	0.7137		2,224.5878
Paving	0.2419					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**1.1570**	**8.5816**	**14.5780**	**0.0228**		**0.4185**	**0.4185**		**0.3850**	**0.3850**		**2,206.7452**	**2,206.7452**	**0.7137**		**2,224.5878**

3.10 Paving - 2025

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	0.0421	0.0238	0.3001	1.0500e-003	0.1232	7.9000e-004	0.1240	0.0327	7.3000e-004	0.0334		104.3267	104.3267	2.4800e-003		104.3888
Total	**0.0421**	**0.0238**	**0.3001**	**1.0500e-003**	**0.1232**	**7.9000e-004**	**0.1240**	**0.0327**	**7.3000e-004**	**0.0334**		**104.3267**	**104.3267**	**2.4800e-003**		**104.3888**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.5609	11.2952	17.2957	0.0228		0.0914	0.0914		0.0914	0.0914	0.0000	2,206.7452	2,206.7452	0.7137		2,224.5878
Paving	0.2419					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**0.8028**	**11.2952**	**17.2957**	**0.0228**		**0.0914**	**0.0914**		**0.0914**	**0.0914**	**0.0000**	**2,206.7452**	**2,206.7452**	**0.7137**		**2,224.5878**

3.10 Paving - 2025

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	0.0421	0.0238	0.3001	1.0500e-003	0.1232	7.9000e-004	0.1240	0.0327	7.3000e-004	0.0334		104.3267	104.3267	2.4800e-003		104.3888
Total	**0.0421**	**0.0238**	**0.3001**	**1.0500e-003**	**0.1232**	**7.9000e-004**	**0.1240**	**0.0327**	**7.3000e-004**	**0.0334**		**104.3267**	**104.3267**	**2.4800e-003**		**104.3888**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	20.5939	77.8269	243.2322	0.9351	90.3793	0.7018	91.0811	24.1502	0.6527	24.8029		95,351.1475	95,351.1475	4.5155		95,464.0351
Unmitigated	20.5939	77.8269	243.2322	0.9351	90.3793	0.7018	91.0811	24.1502	0.6527	24.8029		95,351.1475	95,351.1475	4.5155		95,464.0351

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments High Rise	14,932.00	14,932.00	14932.00	42,635,384	42,635,384
City Park	0.00	0.00	0.00		
Enclosed Parking with Elevator	0.00	0.00	0.00		
Office Park	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Strip Mall	0.00	0.00	0.00		
Total	14,932.00	14,932.00	14,932.00	42,635,384	42,635,384

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 High Rise	10.80	7.30	7.50	41.60	18.80	39.60	86	11	3
City Park	9.50	7.30	7.30	33.00	48.00	19.00	66	28	6
Enclosed Parking with Elevator	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Office Park	9.50	7.30	7.30	33.00	48.00	19.00	82	15	3
Parking Lot	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Strip Mall	9.50	7.30	7.30	16.60	64.40	19.00	45	40	15

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments High Rise	0.609162	0.038894	0.178600	0.101308	0.013823	0.005356	0.016956	0.024628	0.001928	0.001823	0.005807	0.000764	0.000950
City Park	0.609162	0.038894	0.178600	0.101308	0.013823	0.005356	0.016956	0.024628	0.001928	0.001823	0.005807	0.000764	0.000950
Enclosed Parking with Elevator	0.609162	0.038894	0.178600	0.101308	0.013823	0.005356	0.016956	0.024628	0.001928	0.001823	0.005807	0.000764	0.000950
Office Park	0.609162	0.038894	0.178600	0.101308	0.013823	0.005356	0.016956	0.024628	0.001928	0.001823	0.005807	0.000764	0.000950
Parking Lot	0.609162	0.038894	0.178600	0.101308	0.013823	0.005356	0.016956	0.024628	0.001928	0.001823	0.005807	0.000764	0.000950
Strip Mall	0.609162	0.038894	0.178600	0.101308	0.013823	0.005356	0.016956	0.024628	0.001928	0.001823	0.005807	0.000764	0.000950

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Riverwalk Phase I Overlap - San Diego 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	0.4886	4.2132	2.0542	0.0267		0.3376	0.3376		0.3376	0.3376		5,330.2055	5,330.2055	0.1022	0.0977	5,361.8802
NaturalGas Unmitigated	0.4886	4.2132	2.0542	0.0267		0.3376	0.3376		0.3376	0.3376		5,330.2055	5,330.2055	0.1022	0.0977	5,361.8802

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 High Rise	38873.7	0.4192	3.5825	1.5245	0.0229		0.2897	0.2897		0.2897	0.2897		4,573.3742	4,573.3742	0.0877	0.0839	4,600.5515
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
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
Office Park	5759.18	0.0621	0.5646	0.4743	3.3900e-003		0.0429	0.0429		0.0429	0.0429		677.5504	677.5504	0.0130	0.0124	681.5767
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
Strip Mall	673.888	7.2700e-003	0.0661	0.0555	4.0000e-004		5.0200e-003	5.0200e-003		5.0200e-003	5.0200e-003		79.2809	79.2809	1.5200e-003	1.4500e-003	79.7520
Total		**0.4886**	**4.2132**	**2.0543**	**0.0267**		**0.3376**	**0.3376**		**0.3376**	**0.3376**		**5,330.2054**	**5,330.2054**	**0.1022**	**0.0977**	**5,361.8802**

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 High Rise	38.8737	0.4192	3.5825	1.5245	0.0229		0.2897	0.2897		0.2897	0.2897		4,573.3742	4,573.3742	0.0877	0.0839	4,600.5515
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
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
Office Park	5.75918	0.0621	0.5646	0.4743	3.3900e-003		0.0429	0.0429		0.0429	0.0429		677.5504	677.5504	0.0130	0.0124	681.5767
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
Strip Mall	0.673888	7.2700e-003	0.0661	0.0555	4.0000e-004		5.0200e-003	5.0200e-003		5.0200e-003	5.0200e-003		79.2809	79.2809	1.5200e-003	1.4500e-003	79.7520
Total		**0.4886**	**4.2132**	**2.0543**	**0.0267**		**0.3376**	**0.3376**		**0.3376**	**0.3376**		**5,330.2054**	**5,330.2054**	**0.1022**	**0.0977**	**5,361.8802**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	57.1838	3.4093	158.4826	0.0185		1.0036	1.0036		1.0036	1.0036	0.0000	2,317.4858	2,317.4858	0.3128	0.0373	2,336.4120
Unmitigated	57.1838	3.4093	158.4826	0.0185		1.0036	1.0036		1.0036	1.0036	0.0000	2,317.4858	2,317.4858	0.3128	0.0373	2,336.4120

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	7.1012					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	45.1348					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.1864	1.5925	0.6777	0.0102		0.1288	0.1288		0.1288	0.1288	0.0000	2,032.9412	2,032.9412	0.0390	0.0373	2,045.0219
Landscaping	4.7614	1.8168	157.8049	8.3500e-003		0.8749	0.8749		0.8749	0.8749		284.5447	284.5447	0.2738		291.3901
Total	**57.1838**	**3.4093**	**158.4826**	**0.0185**		**1.0036**	**1.0036**		**1.0036**	**1.0036**	**0.0000**	**2,317.4858**	**2,317.4858**	**0.3128**	**0.0373**	**2,336.4120**

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	7.1012					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	45.1348					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.1864	1.5925	0.6777	0.0102		0.1288	0.1288		0.1288	0.1288	0.0000	2,032.9412	2,032.9412	0.0390	0.0373	2,045.0219
Landscaping	4.7614	1.8168	157.8049	8.3500e-003		0.8749	0.8749		0.8749	0.8749		284.5447	284.5447	0.2738		291.3901
Total	**57.1838**	**3.4093**	**158.4826**	**0.0185**		**1.0036**	**1.0036**		**1.0036**	**1.0036**	**0.0000**	**2,317.4858**	**2,317.4858**	**0.3128**	**0.0373**	**2,336.4120**

7.0 Water Detail

7.1 Mitigation Measures Water

Apply Water Conservation Strategy

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

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

10.0 Stationary Equipment

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

Riverwalk Phase II Overlap

San Diego County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Enclosed Parking with Elevator	3,585.00	Space	32.27	1,434,000.00	0
Parking Lot	52.00	Space	0.47	20,800.00	0
City Park	79.75	Acre	79.75	3,473,910.00	0
Apartments High Rise	2,390.00	Dwelling Unit	38.55	2,390,000.00	6835
Strip Mall	13.10	1000sqft	0.30	13,100.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.6	**Precipitation Freq (Days)**	40
Climate Zone	13			**Operational Year**	2030
Utility Company	San Diego Gas & Electric				
CO2 Intensity (lb/MWhr)	720.49	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use -

Construction Phase - Construction phasing adjusted to reflect applicant's construction schedule. Demo, site prep, grading for Phase II is captured at the end of Phase I.

Off-road Equipment - Defaults modified to reflect contractor recommendations.

Off-road Equipment - Defaults modified to reflect contractor recommendations.

Off-road Equipment - Defaults modified to reflect contractor recommendations.

Off-road Equipment - Defaults modified to reflect contractor recommendations.

Off-road Equipment -

Off-road Equipment -

Grading - Acres graded based on Appendix A. Calc Details.

Demolition -

Trips and VMT - Data modifed to reflect construction schedule. Import haul trips assume 20 yard trucks

Architectural Coating - Rule 67 100 g/L VOC emissions for painting

Vehicle Trips - Trip rates adjusted to include total net new cumulative trips as described in TIA.

Woodstoves - Assumes 5% of units have gas fireplaces

Area Coating - SDAPCD Rule 67 requires 100 g/L VOC paint

Construction Off-road Equipment Mitigation - Assumes Tier 3 equipment and Level 3 DPF for equipment greater than 50 HP

Water Mitigation -

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	250.00	100.00
tblArchitecturalCoating	EF_Nonresidential_Interior	250.00	100.00
tblArchitecturalCoating	EF_Parking	250.00	100.00
tblArchitecturalCoating	EF_Residential_Exterior	250.00	100.00
tblArchitecturalCoating	EF_Residential_Interior	250.00	100.00
tblAreaCoating	Area_EF_Nonresidential_Exterior	250	100
tblAreaCoating	Area_EF_Nonresidential_Interior	250	100
tblAreaCoating	Area_EF_Parking	250	100
tblAreaCoating	Area_EF_Residential_Exterior	250	100
tblAreaCoating	Area_EF_Residential_Interior	250	100
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3

tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
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tblConstEquipMitigation	DPF	No Change	Level 3
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tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	5.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	5.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	7.00
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tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
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tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3

tblConstEquipMitigation	Tier	No Change	Tier 3
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tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstructionPhase	NumDays	220.00	521.00
tblConstructionPhase	NumDays	3,100.00	950.00
tblConstructionPhase	NumDays	200.00	70.00
tblConstructionPhase	NumDays	310.00	110.00
tblConstructionPhase	NumDays	220.00	60.00
tblConstructionPhase	NumDays	120.00	40.00
tblConstructionPhase	PhaseEndDate	12/25/2036	12/31/2030
tblConstructionPhase	PhaseEndDate	4/19/2035	8/22/2029
tblConstructionPhase	PhaseEndDate	10/7/2021	4/9/2030
tblConstructionPhase	PhaseEndDate	6/1/2023	11/1/2030
tblConstructionPhase	PhaseEndDate	2/21/2036	11/27/2030
tblConstructionPhase	PhaseEndDate	3/24/2022	6/4/2030
tblConstructionPhase	PhaseStartDate	2/22/2036	1/2/2029
tblConstructionPhase	PhaseStartDate	6/2/2023	1/1/2026
tblConstructionPhase	PhaseStartDate	1/1/2021	1/2/2030
tblConstructionPhase	PhaseStartDate	3/25/2022	6/3/2030
tblConstructionPhase	PhaseStartDate	4/20/2035	9/5/2030
tblConstructionPhase	PhaseStartDate	10/8/2021	4/10/2030

tblFireplaces	NumberGas	1,314.50	120.00
tblFireplaces	NumberWood	836.50	0.00
tblGrading	AcresOfGrading	330.00	495.00
tblGrading	AcresOfGrading	0.00	40.00
tblGrading	MaterialImported	0.00	131,950.00
tblGrading	MaterialImported	0.00	46,650.00
tblOffRoadEquipment	HorsePower	16.00	84.00
tblOffRoadEquipment	LoadFactor	0.36	0.36
tblOffRoadEquipment	LoadFactor	0.50	0.50
tblOffRoadEquipment	LoadFactor	0.50	0.50
tblOffRoadEquipment	LoadFactor	0.50	0.50
tblOffRoadEquipment	LoadFactor	0.44	0.44
tblOffRoadEquipment	LoadFactor	0.38	0.38
tblOffRoadEquipment	LoadFactor	0.36	0.36
tblOffRoadEquipment	OffRoadEquipmentType		Rubber Tired Loaders
tblOffRoadEquipment	OffRoadEquipmentType		Dumpers/Tenders
tblOffRoadEquipment	OffRoadEquipmentType		Bore/Drill Rigs
tblOffRoadEquipment	OffRoadEquipmentType		Bore/Drill Rigs
tblOffRoadEquipment	OffRoadEquipmentType		Bore/Drill Rigs
tblOffRoadEquipment	OffRoadEquipmentType		Off-Highway Tractors
tblOffRoadEquipment	OffRoadEquipmentType		Rollers
tblOffRoadEquipment	OffRoadEquipmentType		Rubber Tired Loaders
tblOffRoadEquipment	OffRoadEquipmentType		Dumpers/Tenders
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	3.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	3.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	2.00

tblOffRoadEquipment	UsageHours	8.00	0.00
tblTripsAndVMT	HaulingTripNumber	136.00	55.00
tblTripsAndVMT	HaulingTripNumber	5,831.00	4,665.00
tblTripsAndVMT	HaulingTripNumber	16,494.00	13,195.00
tblTripsAndVMT	WorkerTripNumber	20.00	15.00
tblTripsAndVMT	WorkerTripNumber	13.00	20.00
tblTripsAndVMT	WorkerTripNumber	43.00	23.00
tblVehicleTrips	ST_TR	4.98	5.60
tblVehicleTrips	ST_TR	22.75	0.00
tblVehicleTrips	ST_TR	42.04	0.00
tblVehicleTrips	SU_TR	3.65	5.60
tblVehicleTrips	SU_TR	16.74	0.00
tblVehicleTrips	SU_TR	20.43	0.00
tblVehicleTrips	WD_TR	4.20	5.60
tblVehicleTrips	WD_TR	1.89	0.00
tblVehicleTrips	WD_TR	44.32	0.00
tblWoodstoves	NumberCatalytic	119.50	0.00
tblWoodstoves	NumberNoncatalytic	119.50	0.00

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2026	13.6725	95.3540	109.9631	0.5531	38.3846	0.8086	39.1932	10.3445	0.7580	11.1025	0.0000	57,397.3001	57,397.3001	3.0940	0.0000	57,474.6503
2027	13.1775	93.9178	105.6919	0.5428	38.3846	0.7962	39.1808	10.3445	0.7465	11.0910	0.0000	56,389.1567	56,389.1567	3.0410	0.0000	56,465.1816

2028	12.6705	92.7004	102.0738	0.5338	38.3846	0.7811	39.1656	10.3445	0.7325	11.0769	0.0000	55,511.0925	55,511.0925	2.9951	0.0000	55,585.9697
2029	72.4700	93.5455	112.5485	0.5752	44.6195	0.8499	45.4695	11.9983	0.7999	12.7982	0.0000	59,642.5372	59,642.5372	3.0687	0.0000	59,719.2534
2030	69.3984	70.1990	83.1680	0.3966	46.9976	1.4081	48.4033	20.1117	1.4044	21.5122	0.0000	41,205.9646	41,205.9646	2.5429	0.0000	41,269.5377
Maximum	**72.4700**	**95.3540**	**112.5485**	**0.5752**	**46.9976**	**1.4081**	**48.4033**	**20.1117**	**1.4044**	**21.5122**	**0.0000**	**59,642.5372**	**59,642.5372**	**3.0940**	**0.0000**	**59,719.2534**

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2026	13.0930	96.7621	111.9070	0.5531	38.3846	0.4422	38.8267	10.3445	0.4229	10.7674	0.0000	57,397.3001	57,397.3001	3.0940	0.0000	57,474.6503
2027	12.5979	95.3259	107.6358	0.5428	38.3846	0.4298	38.8143	10.3445	0.4114	10.7558	0.0000	56,389.1567	56,389.1567	3.0410	0.0000	56,465.1816
2028	12.0909	94.1085	104.0177	0.5338	38.3846	0.4146	38.7991	10.3445	0.3973	10.7418	0.0000	55,511.0925	55,511.0925	2.9951	0.0000	55,585.9697
2029	71.7790	95.1651	114.5157	0.5752	44.6195	0.4462	45.0658	11.9983	0.4275	12.4257	0.0000	59,642.5372	59,642.5372	3.0687	0.0000	59,719.2534
2030	65.0539	108.9181	118.3271	0.3966	27.0460	0.5819	27.6280	10.6345	0.5768	11.2113	0.0000	41,205.9646	41,205.9646	2.5429	0.0000	41,269.5377
Maximum	**71.7790**	**108.9181**	**118.3271**	**0.5752**	**44.6195**	**0.5819**	**45.0658**	**11.9983**	**0.5768**	**12.4257**	**0.0000**	**59,642.5372**	**59,642.5372**	**3.0940**	**0.0000**	**59,719.2534**

	ROG	NOx	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	**3.73**	**-10.00**	**-8.37**	**0.00**	**9.65**	**50.16**	**10.54**	**15.01**	**49.66**	**17.28**	**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	66.6089	4.2611	197.8829	0.0232		1.2558	1.2558		1.2558	1.2558	0.0000	2,897.0328	2,897.0328	0.3891	0.0466	2,920.6429
Energy	0.5254	4.4906	1.9142	0.0287		0.3630	0.3630		0.3630	0.3630		5,732.1198	5,732.1198	0.1099	0.1051	5,766.1829
Mobile	15.1107	60.5295	177.9869	0.7379	80.9220	0.4592	81.3812	21.6188	0.4267	22.0454		75,567.9566	75,567.9566	3.5157		75,655.8482
Total	**82.2450**	**69.2812**	**377.7840**	**0.7897**	**80.9220**	**2.0780**	**83.0000**	**21.6188**	**2.0454**	**23.6642**	**0.0000**	**84,197.1091**	**84,197.1091**	**4.0146**	**0.1517**	**84,342.6740**

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	66.6089	4.2611	197.8829	0.0232		1.2558	1.2558		1.2558	1.2558	0.0000	2,897.0328	2,897.0328	0.3891	0.0466	2,920.6429
Energy	0.5254	4.4906	1.9142	0.0287		0.3630	0.3630		0.3630	0.3630		5,732.1198	5,732.1198	0.1099	0.1051	5,766.1829
Mobile	15.1107	60.5295	177.9869	0.7379	80.9220	0.4592	81.3812	21.6188	0.4267	22.0454		75,567.9566	75,567.9566	3.5157		75,655.8482
Total	**82.2450**	**69.2812**	**377.7840**	**0.7897**	**80.9220**	**2.0780**	**83.0000**	**21.6188**	**2.0454**	**23.6642**	**0.0000**	**84,197.1091**	**84,197.1091**	**4.0146**	**0.1517**	**84,342.6740**

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

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description

1	Demolition Overlap	Demolition	1/2/2030	4/9/2030	5	70	
2	Site Preparation Overlap	Site Preparation	4/10/2030	6/4/2030	5	40	
3	Grading Overlap	Grading	6/3/2030	11/1/2030	5	110	
4	Building Construction	Building Construction	1/1/2026	8/22/2029	5	950	
5	Paving	Paving	9/5/2030	11/27/2030	5	60	
6	Architectural Coating	Architectural Coating	1/2/2029	12/31/2030	5	521	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 32.74

Residential Indoor: 4,839,750; Residential Outdoor: 1,613,250; Non-Residential Indoor: 19,650; Non-Residential Outdoor: 6,550;

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	1	6.00	78	0.48
Demolition Overlap	Excavators	2	8.00	158	0.38
Demolition Overlap	Concrete/Industrial Saws	1	8.00	81	0.73
Grading Overlap	Excavators	3	8.00	158	0.38
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Paving	Pavers	2	8.00	130	0.42
Paving	Rollers	2	8.00	80	0.38
Demolition Overlap	Rubber Tired Dozers	0	0.00	247	0.40
Grading Overlap	Rubber Tired Dozers	3	8.00	247	0.40
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Grading Overlap	Graders	2	8.00	187	0.41
Grading Overlap	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Paving	Paving Equipment	2	8.00	132	0.36
Site Preparation Overlap	Tractors/Loaders/Backhoes	2	8.00	97	0.37

Site Preparation Overlap	Rubber Tired Dozers	2	8.00	247	0.40
Grading Overlap	Scrapers	2	8.00	367	0.48
Building Construction	Welders	1	8.00	46	0.45
Demolition Overlap	Rubber Tired Loaders	2	8.00	203	0.36
Demolition Overlap	Dumpers/Tenders	2	8.00	16	0.38
Demolition Overlap	Bore/Drill Rigs	1	8.00	221	0.50
Site Preparation Overlap	Bore/Drill Rigs	1	8.00	221	0.50
Grading Overlap	Bore/Drill Rigs	1	8.00	221	0.50
Grading Overlap	Off-Highway Tractors	1	8.00	124	0.44
Grading Overlap	Rollers	1	8.00	80	0.38
Grading Overlap	Rubber Tired Loaders	2	8.00	203	0.36
Building Construction	Dumpers/Tenders	1	8.00	84	0.38

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 Overlap	8	15.00	0.00	55.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation Overlap	5	20.00	0.00	4,665.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading Overlap	17	23.00	0.00	13,195.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	10	3,795.00	1,065.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	759.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Use DPF for Construction Equipment

Water Exposed Area

3.2 Demolition Overlap - 2030

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.4271	0.0000	0.4271	0.0647	0.0000	0.0647			0.0000			0.0000
Off-Road	1.6213	6.0130	16.2267	0.0478		0.1974	0.1974		0.1974	0.1974		4,503.5025	4,503.5025	0.1413		4,507.0354
Total	**1.6213**	**6.0130**	**16.2267**	**0.0478**	**0.4271**	**0.1974**	**0.6245**	**0.0647**	**0.1974**	**0.2620**		**4,503.5025**	**4,503.5025**	**0.1413**		**4,507.0354**

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	3.5900e-003	0.1086	0.0498	5.4000e-004	0.0137	2.0000e-004	0.0139	3.7600e-003	1.9000e-004	3.9500e-003		60.9245	60.9245	5.7200e-003		61.0675
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0325	0.0170	0.2272	9.0000e-004	0.1232	5.8000e-004	0.1238	0.0327	5.3000e-004	0.0332		89.3180	89.3180	1.8200e-003		89.3635
Total	**0.0361**	**0.1255**	**0.2770**	**1.4400e-003**	**0.1370**	**7.8000e-004**	**0.1377**	**0.0364**	**7.2000e-004**	**0.0372**		**150.2425**	**150.2425**	**7.5400e-003**		**150.4310**

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					0.1922	0.0000	0.1922	0.0291	0.0000	0.0291			0.0000			0.0000
Off-Road	1.0721	19.2544	24.0248	0.0478		0.1602	0.1602		0.1602	0.1602	0.0000	4,503.5025	4,503.5025	0.1413		4,507.0354
Total	**1.0721**	**19.2544**	**24.0248**	**0.0478**	**0.1922**	**0.1602**	**0.3524**	**0.0291**	**0.1602**	**0.1893**	**0.0000**	**4,503.5025**	**4,503.5025**	**0.1413**		**4,507.0354**

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	3.5900e-003	0.1086	0.0498	5.4000e-004	0.0137	2.0000e-004	0.0139	3.7600e-003	1.9000e-004	3.9500e-003		60.9245	60.9245	5.7200e-003		61.0675
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0325	0.0170	0.2272	9.0000e-004	0.1232	5.8000e-004	0.1238	0.0327	5.3000e-004	0.0332		89.3180	89.3180	1.8200e-003		89.3635
Total	**0.0361**	**0.1255**	**0.2770**	**1.4400e-003**	**0.1370**	**7.8000e-004**	**0.1377**	**0.0364**	**7.2000e-004**	**0.0372**		**150.2425**	**150.2425**	**7.5400e-003**		**150.4310**

3.3 Site Preparation Overlap - 2030

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					13.2686	0.0000	13.2686	6.7598	0.0000	6.7598			0.0000			0.0000
Off-Road	1.7606	8.9633	11.3249	0.0403		0.2980	0.2980		0.2980	0.2980		3,813.1049	3,813.1049	0.1565		3,817.0169
Total	**1.7606**	**8.9633**	**11.3249**	**0.0403**	**13.2686**	**0.2980**	**13.5666**	**6.7598**	**0.2980**	**7.0578**		**3,813.1049**	**3,813.1049**	**0.1565**		**3,817.0169**

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	0.5328	16.1116	7.3849	0.0808	2.0378	0.0299	2.0677	0.5585	0.0286	0.5870		9,043.1375	9,043.1375	0.8488		9,064.3581
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0433	0.0226	0.3029	1.1900e-003	0.1643	7.7000e-004	0.1651	0.0436	7.1000e-004	0.0443		119.0906	119.0906	2.4300e-003		119.1513
Total	**0.5761**	**16.1342**	**7.6879**	**0.0820**	**2.2021**	**0.0306**	**2.2327**	**0.6021**	**0.0293**	**0.6313**		**9,162.2282**	**9,162.2282**	**0.8513**		**9,183.5094**

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					5.9709	0.0000	5.9709	3.0419	0.0000	3.0419			0.0000			0.0000
Off-Road	0.8052	16.0982	18.8378	0.0403		0.1083	0.1083		0.1083	0.1083	0.0000	3,813.1049	3,813.1049	0.1565		3,817.0169
Total	**0.8052**	**16.0982**	**18.8378**	**0.0403**	**5.9709**	**0.1083**	**6.0792**	**3.0419**	**0.1083**	**3.1502**	**0.0000**	**3,813.1049**	**3,813.1049**	**0.1565**		**3,817.0169**

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	0.5328	16.1116	7.3849	0.0808	2.0378	0.0299	2.0677	0.5585	0.0286	0.5870		9,043.1375	9,043.1375	0.8488		9,064.3581
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0433	0.0226	0.3029	1.1900e-003	0.1643	7.7000e-004	0.1651	0.0436	7.1000e-004	0.0443		119.0906	119.0906	2.4300e-003		119.1513
Total	**0.5761**	**16.1342**	**7.6879**	**0.0820**	**2.2021**	**0.0306**	**2.2327**	**0.6021**	**0.0293**	**0.6313**		**9,162.2282**	**9,162.2282**	**0.8513**		**9,183.5094**

3.4 Grading Overlap - 2030

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day											lb/day				
Fugitive Dust					23.0071	0.0000	23.0071	10.4715	0.0000	10.4715			0.0000			0.0000
Off-Road	6.2721	26.7885	42.9171	0.1415		0.9958	0.9958		0.9958	0.9958		13,991.4290	13,991.4290	0.5558		14,005.3234
Total	**6.2721**	**26.7885**	**42.9171**	**0.1415**	**23.0071**	**0.9958**	**24.0029**	**10.4715**	**0.9958**	**11.4673**		**13,991.4290**	**13,991.4290**	**0.5558**		**14,005.3234**

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	0.5480	16.5715	7.5958	0.0831	2.0960	0.0307	2.1267	0.5744	0.0294	0.6038		9,301.3115	9,301.3115	0.8731		9,323.1379
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000

Worker	0.0498	0.0260	0.3484	1.3700e-003	0.1889	8.9000e-004	0.1898	0.0501	8.1000e-004	0.0509		136.9542	136.9542	2.7900e-003		137.0240
Total	**0.5978**	**16.5976**	**7.9441**	**0.0845**	**2.2849**	**0.0316**	**2.3165**	**0.6245**	**0.0302**	**0.6547**		**9,438.2657**	**9,438.2657**	**0.8759**		**9,460.1619**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					10.3532	0.0000	10.3532	4.7122	0.0000	4.7122			0.0000			0.0000
Off-Road	2.9544	57.8721	70.5286	0.1415		0.3679	0.3679		0.3679	0.3679	0.0000	13,991.4290	13,991.4290	0.5558		14,005.3234
Total	**2.9544**	**57.8721**	**70.5286**	**0.1415**	**10.3532**	**0.3679**	**10.7210**	**4.7122**	**0.3679**	**5.0800**	**0.0000**	**13,991.4290**	**13,991.4290**	**0.5558**		**14,005.3234**

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	0.5480	16.5715	7.5958	0.0831	2.0960	0.0307	2.1267	0.5744	0.0294	0.6038		9,301.3115	9,301.3115	0.8731		9,323.1379
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0498	0.0260	0.3484	1.3700e-003	0.1889	8.9000e-004	0.1898	0.0501	8.1000e-004	0.0509		136.9542	136.9542	2.7900e-003		137.0240
Total	**0.5978**	**16.5976**	**7.9441**	**0.0845**	**2.2849**	**0.0316**	**2.3165**	**0.6245**	**0.0302**	**0.6547**		**9,438.2657**	**9,438.2657**	**0.8759**		**9,460.1619**

3.5 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	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963		2,556.4744	2,556.4744	0.6010		2,571.4981
Total	**1.3674**	**12.4697**	**16.0847**	**0.0270**		**0.5276**	**0.5276**		**0.4963**	**0.4963**		**2,556.4744**	**2,556.4744**	**0.6010**		**2,571.4981**

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	2.1074	77.2960	22.4624	0.2712	7.2095	0.0877	7.2973	2.0754	0.0838	2.1592		29,413.0239	29,413.0239	1.9072		29,460.7045
Worker	10.1978	5.5883	71.4160	0.2550	31.1750	0.1934	31.3684	8.2691	0.1780	8.4470		25,427.8019	25,427.8019	0.5858		25,442.4478
Total	**12.3051**	**82.8843**	**93.8784**	**0.5262**	**38.3846**	**0.2811**	**38.6656**	**10.3445**	**0.2618**	**10.6063**		**54,840.8258**	**54,840.8258**	**2.4931**		**54,903.1522**

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	0.7878	13.8778	18.0286	0.0270		0.1611	0.1611		0.1611	0.1611	0.0000	2,556.4744	2,556.4744	0.6010		2,571.4981
Total	**0.7878**	**13.8778**	**18.0286**	**0.0270**		**0.1611**	**0.1611**		**0.1611**	**0.1611**	**0.0000**	**2,556.4744**	**2,556.4744**	**0.6010**		**2,571.4981**

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	2.1074	77.2960	22.4624	0.2712	7.2095	0.0877	7.2973	2.0754	0.0838	2.1592		29,413.0239	29,413.0239	1.9072		29,460.7045
Worker	10.1978	5.5883	71.4160	0.2550	31.1750	0.1934	31.3684	8.2691	0.1780	8.4470		25,427.8019	25,427.8019	0.5858		25,442.4478
Total	**12.3051**	**82.8843**	**93.8784**	**0.5262**	**38.3846**	**0.2811**	**38.6656**	**10.3445**	**0.2618**	**10.6063**		**54,840.8258**	**54,840.8258**	**2.4931**		**54,903.1522**

3.5 Building Construction - 2027

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963		2,556.4744	2,556.4744	0.6010		2,571.4981
Total	**1.3674**	**12.4697**	**16.0847**	**0.0270**		**0.5276**	**0.5276**		**0.4963**	**0.4963**		**2,556.4744**	**2,556.4744**	**0.6010**		**2,571.4981**

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	2.0611	76.2311	22.1956	0.2695	7.2095	0.0857	7.2953	2.0754	0.0819	2.1573		29,256.2366	29,256.2366	1.8913		29,303.5191
Worker	9.7491	5.2170	67.4116	0.2464	31.1750	0.1829	31.3580	8.2691	0.1683	8.4374		24,576.4457	24,576.4457	0.5488		24,590.1644
Total	**11.8101**	**81.4481**	**89.6072**	**0.5158**	**38.3846**	**0.2687**	**38.6532**	**10.3445**	**0.2503**	**10.5947**		**53,832.6823**	**53,832.6823**	**2.4401**		**53,893.6835**

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	0.7878	13.8778	18.0286	0.0270		0.1611	0.1611		0.1611	0.1611	0.0000	2,556.4744	2,556.4744	0.6010		2,571.4981
Total	**0.7878**	**13.8778**	**18.0286**	**0.0270**		**0.1611**	**0.1611**		**0.1611**	**0.1611**	**0.0000**	**2,556.4744**	**2,556.4744**	**0.6010**		**2,571.4981**

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	2.0611	76.2311	22.1956	0.2695	7.2095	0.0857	7.2953	2.0754	0.0819	2.1573		29,256.2366	29,256.2366	1.8913		29,303.5191
Worker	9.7491	5.2170	67.4116	0.2464	31.1750	0.1829	31.3580	8.2691	0.1683	8.4374		24,576.4457	24,576.4457	0.5488		24,590.1644
Total	**11.8101**	**81.4481**	**89.6072**	**0.5158**	**38.3846**	**0.2687**	**38.6532**	**10.3445**	**0.2503**	**10.5947**		**53,832.6823**	**53,832.6823**	**2.4401**		**53,893.6835**

3.5 Building Construction - 2028

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day											lb/day				
Off-Road	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963		2,556.4744	2,556.4744	0.6010		2,571.4981
Total	**1.3674**	**12.4697**	**16.0847**	**0.0270**		**0.5276**	**0.5276**		**0.4963**	**0.4963**		**2,556.4744**	**2,556.4744**	**0.6010**		**2,571.4981**

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	2.0248	75.3420	22.0629	0.2680	7.2095	0.0841	7.2936	2.0754	0.0803	2.1557		29,124.8112	29,124.8112	1.8768		29,171.7314

Worker	9.2783	4.8887	63.9263	0.2389	31.1750	0.1694	31.3445	8.2691	0.1559	8.4249		23,829.8070	23,829.8070	0.5173		23,842.7402
Total	**11.3031**	**80.2307**	**85.9891**	**0.5068**	**38.3846**	**0.2535**	**38.6380**	**10.3445**	**0.2362**	**10.5807**		**52,954.6181**	**52,954.6181**	**2.3941**		**53,014.4716**

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	0.7878	13.8778	18.0286	0.0270		0.1611	0.1611		0.1611	0.1611	0.0000	2,556.4744	2,556.4744	0.6010		2,571.4981
Total	**0.7878**	**13.8778**	**18.0286**	**0.0270**		**0.1611**	**0.1611**		**0.1611**	**0.1611**	**0.0000**	**2,556.4744**	**2,556.4744**	**0.6010**		**2,571.4981**

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	2.0248	75.3420	22.0629	0.2680	7.2095	0.0841	7.2936	2.0754	0.0803	2.1557		29,124.8112	29,124.8112	1.8768		29,171.7314
Worker	9.2783	4.8887	63.9263	0.2389	31.1750	0.1694	31.3445	8.2691	0.1559	8.4249		23,829.8070	23,829.8070	0.5173		23,842.7402
Total	**11.3031**	**80.2307**	**85.9891**	**0.5068**	**38.3846**	**0.2535**	**38.6380**	**10.3445**	**0.2362**	**10.5807**		**52,954.6181**	**52,954.6181**	**2.3941**		**53,014.4716**

3.5 Building Construction - 2029

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963		2,556.4744	2,556.4744	0.6010		2,571.4981
Total	**1.3674**	**12.4697**	**16.0847**	**0.0270**		**0.5276**	**0.5276**		**0.4963**	**0.4963**		**2,556.4744**	**2,556.4744**	**0.6010**		**2,571.4981**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	1.9900	74.4262	21.9118	0.2665	7.2095	0.0821	7.2916	2.0754	0.0785	2.1539		28,996.0126	28,996.0126	1.8664		29,042.6732
Worker	8.7699	4.5868	60.6190	0.2323	31.1750	0.1573	31.3323	8.2691	0.1447	8.4138		23,173.8352	23,173.8352	0.4883		23,186.0419
Total	**10.7599**	**79.0130**	**82.5309**	**0.4988**	**38.3845**	**0.2394**	**38.6239**	**10.3445**	**0.2232**	**10.5676**		**52,169.8478**	**52,169.8478**	**2.3547**		**52,228.7151**

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	0.7878	13.8778	18.0286	0.0270		0.1611	0.1611		0.1611	0.1611	0.0000	2,556.4744	2,556.4744	0.6010		2,571.4981
Total	**0.7878**	**13.8778**	**18.0286**	**0.0270**		**0.1611**	**0.1611**		**0.1611**	**0.1611**	**0.0000**	**2,556.4744**	**2,556.4744**	**0.6010**		**2,571.4981**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	1.9900	74.4262	21.9118	0.2665	7.2095	0.0821	7.2916	2.0754	0.0785	2.1539		28,996.0126	28,996.0126	1.8664		29,042.6732
Worker	8.7699	4.5868	60.6190	0.2323	31.1750	0.1573	31.3323	8.2691	0.1447	8.4138		23,173.8352	23,173.8352	0.4883		23,186.0419
Total	**10.7599**	**79.0130**	**82.5309**	**0.4988**	**38.3845**	**0.2394**	**38.6239**	**10.3445**	**0.2232**	**10.5676**		**52,169.8478**	**52,169.8478**	**2.3547**		**52,228.7151**

3.6 Paving - 2030

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3845	7.1202	15.8495	0.0281		0.3306	0.3306		0.3306	0.3306		2,656.5168	2,656.5168	0.1245		2,659.6302
Paving	0.0205					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**1.4050**	**7.1202**	**15.8495**	**0.0281**		**0.3306**	**0.3306**		**0.3306**	**0.3306**		**2,656.5168**	**2,656.5168**	**0.1245**		**2,659.6302**

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	0.0325	0.0170	0.2272	9.0000e-004	0.1232	5.8000e-004	0.1238	0.0327	5.3000e-004	0.0332		89.3180	89.3180	1.8200e-003		89.3635
Total	**0.0325**	**0.0170**	**0.2272**	**9.0000e-004**	**0.1232**	**5.8000e-004**	**0.1238**	**0.0327**	**5.3000e-004**	**0.0332**		**89.3180**	**89.3180**	**1.8200e-003**		**89.3635**

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	0.5609	11.2952	17.2957	0.0281		0.0914	0.0914		0.0914	0.0914	0.0000	2,656.5168	2,656.5168	0.1245		2,659.6302
Paving	0.0205					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**0.5815**	**11.2952**	**17.2957**	**0.0281**		**0.0914**	**0.0914**		**0.0914**	**0.0914**	**0.0000**	**2,656.5168**	**2,656.5168**	**0.1245**		**2,659.6302**

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	0.0325	0.0170	0.2272	9.0000e-004	0.1232	5.8000e-004	0.1238	0.0327	5.3000e-004	0.0332		89.3180	89.3180	1.8200e-003		89.3635
Total	**0.0325**	**0.0170**	**0.2272**	**9.0000e-004**	**0.1232**	**5.8000e-004**	**0.1238**	**0.0327**	**5.3000e-004**	**0.0332**		**89.3180**	**89.3180**	**1.8200e-003**		**89.3635**

3.7 Architectural Coating - 2029

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day											lb/day				
Archit. Coating	58.4178					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1709	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515		281.4481	281.4481	0.0154		281.8319
Total	**58.5887**	**1.1455**	**1.8091**	**2.9700e-003**		**0.0515**	**0.0515**		**0.0515**	**0.0515**		**281.4481**	**281.4481**	**0.0154**		**281.8319**

Unmitigated Construction Off-Site

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

Worker	1.7540	0.9174	12.1238	0.0465	6.2350	0.0315	6.2665	1.6538	0.0289	1.6828		4,634.7670	4,634.7670	0.0977		4,637.2084
Total	**1.7540**	**0.9174**	**12.1238**	**0.0465**	**6.2350**	**0.0315**	**6.2665**	**1.6538**	**0.0289**	**1.6828**		**4,634.7670**	**4,634.7670**	**0.0977**		**4,637.2084**

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	58.4178					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.0594	1.3570	1.8324	2.9700e-003		0.0143	0.0143		0.0143	0.0143	0.0000	281.4481	281.4481	0.0154		281.8319
Total	**58.4772**	**1.3570**	**1.8324**	**2.9700e-003**		**0.0143**	**0.0143**		**0.0143**	**0.0143**	**0.0000**	**281.4481**	**281.4481**	**0.0154**		**281.8319**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	1.7540	0.9174	12.1238	0.0465	6.2350	0.0315	6.2665	1.6538	0.0289	1.6828		4,634.7670	4,634.7670	0.0977		4,637.2084
Total	**1.7540**	**0.9174**	**12.1238**	**0.0465**	**6.2350**	**0.0315**	**6.2665**	**1.6538**	**0.0289**	**1.6828**		**4,634.7670**	**4,634.7670**	**0.0977**		**4,637.2084**

3.7 Architectural Coating - 2030

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	58.4178					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1308	0.8563	1.7977	2.9700e-003		0.0203	0.0203		0.0203	0.0203		281.4481	281.4481	0.0114		281.7328
Total	**58.5486**	**0.8563**	**1.7977**	**2.9700e-003**		**0.0203**	**0.0203**		**0.0203**	**0.0203**		**281.4481**	**281.4481**	**0.0114**		**281.7328**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	1.6432	0.8591	11.4963	0.0453	6.2350	0.0292	6.2642	1.6538	0.0269	1.6807		4,519.4889	4,519.4889	0.0922		4,521.7933
Total	**1.6432**	**0.8591**	**11.4963**	**0.0453**	**6.2350**	**0.0292**	**6.2642**	**1.6538**	**0.0269**	**1.6807**		**4,519.4889**	**4,519.4889**	**0.0922**		**4,521.7933**

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	58.4178					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.0594	1.3570	1.8324	2.9700e-003		0.0143	0.0143		0.0143	0.0143	0.0000	281.4481	281.4481	0.0114		281.7328
Total	**58.4772**	**1.3570**	**1.8324**	**2.9700e-003**		**0.0143**	**0.0143**		**0.0143**	**0.0143**	**0.0000**	**281.4481**	**281.4481**	**0.0114**		**281.7328**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	1.6432	0.8591	11.4963	0.0453	6.2350	0.0292	6.2642	1.6538	0.0269	1.6807		4,519.4889	4,519.4889	0.0922		4,521.7933
Total	**1.6432**	**0.8591**	**11.4963**	**0.0453**	**6.2350**	**0.0292**	**6.2642**	**1.6538**	**0.0269**	**1.6807**		**4,519.4889**	**4,519.4889**	**0.0922**		**4,521.7933**

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	15.1107	60.5295	177.9869	0.7379	80.9220	0.4592	81.3812	21.6188	0.4267	22.0454		75,567.9566	75,567.9566	3.5157		75,655.8482
Unmitigated	15.1107	60.5295	177.9869	0.7379	80.9220	0.4592	81.3812	21.6188	0.4267	22.0454		75,567.9566	75,567.9566	3.5157		75,655.8482

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments High Rise	13,373.00	13,373.00	13373.00	38,183,968	38,183,968
City Park	0.00	0.00	0.00		
Enclosed Parking with Elevator	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Strip Mall	0.00	0.00	0.00		
Total	13,373.00	13,373.00	13,373.00	38,183,968	38,183,968

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments High Rise	10.80	7.30	7.50	41.60	18.80	39.60	86	11	3
City Park	9.50	7.30	7.30	33.00	48.00	19.00	66	28	6
Enclosed Parking with Elevator	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Parking Lot	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Strip Mall	9.50	7.30	7.30	16.60	64.40	19.00	45	40	15

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments High Rise	0.616428	0.037185	0.177402	0.097684	0.012090	0.005279	0.017663	0.025476	0.001931	0.001677	0.005617	0.000785	0.000782
City Park	0.616428	0.037185	0.177402	0.097684	0.012090	0.005279	0.017663	0.025476	0.001931	0.001677	0.005617	0.000785	0.000782
Enclosed Parking with Elevator	0.616428	0.037185	0.177402	0.097684	0.012090	0.005279	0.017663	0.025476	0.001931	0.001677	0.005617	0.000785	0.000782
Parking Lot	0.616428	0.037185	0.177402	0.097684	0.012090	0.005279	0.017663	0.025476	0.001931	0.001677	0.005617	0.000785	0.000782
Strip Mall	0.616428	0.037185	0.177402	0.097684	0.012090	0.005279	0.017663	0.025476	0.001931	0.001677	0.005617	0.000785	0.000782

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.5254	4.4906	1.9142	0.0287		0.3630	0.3630		0.3630	0.3630		5,732.1198	5,732.1198	0.1099	0.1051	5,766.1829
NaturalGas Unmitigated	0.5254	4.4906	1.9142	0.0287		0.3630	0.3630		0.3630	0.3630		5,732.1198	5,732.1198	0.1099	0.1051	5,766.1829

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 High Rise	48643	0.5246	4.4828	1.9076	0.0286		0.3624	0.3624		0.3624	0.3624		5,722.7038	5,722.7038	0.1097	0.1049	5,756.7110
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
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
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
Strip Mall	80.0356	8.6000e-004	7.8500e-003	6.5900e-003	5.0000e-005		6.0000e-004	6.0000e-004		6.0000e-004	6.0000e-004		9.4160	9.4160	1.8000e-004	1.7000e-004	9.4719
Total		**0.5254**	**4.4906**	**1.9142**	**0.0287**		**0.3630**	**0.3630**		**0.3630**	**0.3630**		**5,732.1198**	**5,732.1198**	**0.1099**	**0.1051**	**5,766.1829**

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 High Rise	48.643	0.5246	4.4828	1.9076	0.0286		0.3624	0.3624		0.3624	0.3624		5,722.7038	5,722.7038	0.1097	0.1049	5,756.7110
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
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
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
Strip Mall	0.0800356	8.6000e-004	7.8500e-003	6.5900e-003	5.0000e-005		6.0000e-004	6.0000e-004		6.0000e-004	6.0000e-004		9.4160	9.4160	1.8000e-004	1.7000e-004	9.4719
Total		**0.5254**	**4.4906**	**1.9142**	**0.0287**		**0.3630**	**0.3630**		**0.3630**	**0.3630**		**5,732.1198**	**5,732.1198**	**0.1099**	**0.1051**	**5,766.1829**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	66.6089	4.2611	197.8829	0.0232		1.2558	1.2558		1.2558	1.2558	0.0000	2,897.0328	2,897.0328	0.3891	0.0466	2,920.6429
Unmitigated	66.6089	4.2611	197.8829	0.0232		1.2558	1.2558		1.2558	1.2558	0.0000	2,897.0328	2,897.0328	0.3891	0.0466	2,920.6429

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	8.3385					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	52.1206					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.2329	1.9906	0.8471	0.0127		0.1609	0.1609		0.1609	0.1609	0.0000	2,541.1765	2,541.1765	0.0487	0.0466	2,556.2774
Landscaping	5.9168	2.2705	197.0359	0.0104		1.0948	1.0948		1.0948	1.0948		355.8563	355.8563	0.3404		364.3655
Total	**66.6089**	**4.2611**	**197.8829**	**0.0232**		**1.2558**	**1.2558**		**1.2558**	**1.2558**	**0.0000**	**2,897.0328**	**2,897.0328**	**0.3891**	**0.0466**	**2,920.6429**

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	8.3385					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	52.1206					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.2329	1.9906	0.8471	0.0127		0.1609	0.1609		0.1609	0.1609	0.0000	2,541.1765	2,541.1765	0.0487	0.0466	2,556.2774
Landscaping	5.9168	2.2705	197.0359	0.0104		1.0948	1.0948		1.0948	1.0948		355.8563	355.8563	0.3404		364.3655
Total	**66.6089**	**4.2611**	**197.8829**	**0.0232**		**1.2558**	**1.2558**		**1.2558**	**1.2558**	**0.0000**	**2,897.0328**	**2,897.0328**	**0.3891**	**0.0466**	**2,920.6429**

7.0 Water Detail

7.1 Mitigation Measures Water

Apply Water Conservation Strategy

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

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

10.0 Stationary Equipment

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

Riverwalk Phase III Overlap

San Diego County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	935.00	1000sqft	21.46	935,000.00	0
Enclosed Parking with Elevator	3,086.00	Space	27.77	1,234,400.00	0
Parking Lot	94.00	Space	0.85	37,600.00	0
City Park	2.20	Acre	2.20	95,832.00	0
Strip Mall	28.60	1000sqft	0.66	28,600.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.6	**Precipitation Freq (Days)**	40
Climate Zone	13			**Operational Year**	2035
Utility Company	San Diego Gas & Electric				
CO2 Intensity (lb/MWhr)	720.49	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Riverwalk Phase III Overlap - San Diego County, Summer

Project Characteristics -

Land Use -

Construction Phase - Default construction duration adjusted to reflect applicant's phasing.

Off-road Equipment -

Off-road Equipment - Defaults modified based on contractor input.

Off-road Equipment -

Architectural Coating - SDAPCD Rule 67 limits VOC to 100 g/L

Vehicle Trips - Trip rates adjusted to include total net new cumulative trips as described in TIA.

Area Coating - Rule 67 100 g/L VOC emissions for painting

Construction Off-road Equipment Mitigation - Assumes Tier 3 and Level 3 DPF and watering twice per day.

Water Mitigation -

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	250.00	100.00
tblArchitecturalCoating	EF_Nonresidential_Interior	250.00	100.00
tblArchitecturalCoating	EF_Parking	250.00	100.00
tblArchitecturalCoating	EF_Residential_Exterior	250.00	100.00
tblArchitecturalCoating	EF_Residential_Interior	250.00	100.00
tblAreaCoating	Area_EF_Nonresidential_Exterior	250	100
tblAreaCoating	Area_EF_Nonresidential_Interior	250	100
tblAreaCoating	Area_EF_Parking	250	100
tblAreaCoating	Area_EF_Residential_Exterior	250	100
tblAreaCoating	Area_EF_Residential_Interior	250	100
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3

tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstructionPhase	NumDays	75.00	327.00
tblConstructionPhase	NumDays	1,110.00	950.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	3.00
tblVehicleTrips	ST_TR	22.75	0.00
tblVehicleTrips	ST_TR	2.46	9.54

tblVehicleTrips	ST_TR	42.04	0.00
tblVehicleTrips	SU_TR	16.74	0.00
tblVehicleTrips	SU_TR	1.05	9.54
tblVehicleTrips	SU_TR	20.43	0.00
tblVehicleTrips	WD_TR	1.89	0.00
tblVehicleTrips	WD_TR	11.03	9.54
tblVehicleTrips	WD_TR	44.32	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					
2030	4.6357	40.2202	47.0125	0.2001	9.8396	0.3170	10.1566	2.6684	0.3130	2.9814	0.0000	20,530.3212	20,530.3212	0.9533	0.0000	20,554.1543
2031	4.4918	39.9171	46.2969	0.1985	9.8396	0.3142	10.1537	2.6684	0.3104	2.9788	0.0000	20,381.5134	20,381.5134	0.9445	0.0000	20,405.1262
2032	4.3652	39.6508	45.6908	0.1972	9.8396	0.3116	10.1512	2.6684	0.3080	2.9764	0.0000	20,256.3917	20,256.3917	0.9373	0.0000	20,279.8231
2033	30.2805	39.4142	45.1717	0.1961	9.8396	0.3569	10.1489	2.6684	0.3564	2.9742	0.0000	20,149.9844	20,149.9844	0.9311	0.0000	20,173.2616
2034	30.2607	8.1508	20.0559	0.0416	1.5772	0.3565	1.9338	0.4184	0.3561	0.7744	0.0000	3,998.1253	3,998.1253	0.1552	0.0000	4,002.0063
Maximum	**30.2805**	**40.2202**	**47.0125**	**0.2001**	**9.8396**	**0.3569**	**10.1566**	**2.6684**	**0.3564**	**2.9814**	**0.0000**	**20,530.3212**	**20,530.3212**	**0.9533**	**0.0000**	**20,554.1543**

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					
2030	3.7726	50.4143	51.1470	0.2001	9.8396	0.2854	10.1249	2.6684	0.2814	2.9498	0.0000	20,530.3212	20,530.3212	0.9533	0.0000	20,554.1543
2031	3.6288	50.1113	50.4315	0.1985	9.8396	0.2825	10.1221	2.6684	0.2787	2.9471	0.0000	20,381.5134	20,381.5134	0.9445	0.0000	20,405.1261
2032	3.5021	49.8449	49.8254	0.1972	9.8396	0.2800	10.1196	2.6684	0.2764	2.9448	0.0000	20,256.3917	20,256.3917	0.9373	0.0000	20,279.8231
2033	29.3856	49.6083	49.3062	0.1961	9.8396	0.2776	10.1172	2.6684	0.2742	2.9426	0.0000	20,149.9844	20,149.9844	0.9311	0.0000	20,173.2616
2034	29.3658	12.8265	21.5367	0.0416	1.5772	0.1113	1.6885	0.4184	0.1108	0.5292	0.0000	3,998.1253	3,998.1253	0.1552	0.0000	4,002.0063
Maximum	**29.3856**	**50.4143**	**51.1470**	**0.2001**	**9.8396**	**0.2854**	**10.1249**	**2.6684**	**0.2814**	**2.9498**	**0.0000**	**20,530.3212**	**20,530.3212**	**0.9533**	**0.0000**	**20,554.1543**

	ROG	NOx	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	**5.91**	**-27.16**	**-8.82**	**0.00**	**0.00**	**25.33**	**0.87**	**0.00**	**25.70**	**2.93**	**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	23.6592	3.7800e-003	0.4209	3.0000e-005		1.4900e-003	1.4900e-003		1.4900e-003	1.4900e-003		0.9073	0.9073	2.3400e-003		0.9658
Energy	0.5596	5.0877	4.2737	0.0305		0.3867	0.3867		0.3867	0.3867		6,105.2145	6,105.2145	0.1170	0.1119	6,141.4947
Mobile	7.9427	35.4614	90.2506	0.3920	45.1677	0.1939	45.3616	12.0673	0.1802	12.2475		40,288.9535	40,288.9535	1.8993		40,336.4363
Total	**32.1616**	**40.5528**	**94.9451**	**0.4226**	**45.1677**	**0.5821**	**45.7498**	**12.0673**	**0.5684**	**12.6357**		**46,395.0754**	**46,395.0754**	**2.0187**	**0.1119**	**46,478.8968**

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	23.6592	3.7800e-003	0.4209	3.0000e-005		1.4900e-003	1.4900e-003		1.4900e-003	1.4900e-003		0.9073	0.9073	2.3400e-003		0.9658
Energy	0.5596	5.0877	4.2737	0.0305		0.3867	0.3867		0.3867	0.3867		6,105.2145	6,105.2145	0.1170	0.1119	6,141.4947
Mobile	7.9427	35.4614	90.2506	0.3920	45.1677	0.1939	45.3616	12.0673	0.1802	12.2475		40,288.9535	40,288.9535	1.8993		40,336.4363
Total	**32.1616**	**40.5528**	**94.9451**	**0.4226**	**45.1677**	**0.5821**	**45.7498**	**12.0673**	**0.5684**	**12.6357**		**46,395.0754**	**46,395.0754**	**2.0187**	**0.1119**	**46,478.8968**

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

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Building Construction	Building Construction	1/7/2030	8/26/2033	5	950	
2	Paving	Paving	12/2/2033	3/16/2034	5	75	
3	Architectural Coating	Architectural Coating	9/1/2033	12/1/2034	5	327	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 28.62

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 1,445,400; Non-Residential Outdoor: 481,800; Striped Parking Area: 76,320 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Building Construction	Cranes	2	7.00	231	0.29
Building Construction	Forklifts	4	8.00	89	0.20
Building Construction	Generator Sets	3	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Building Construction	13	883.00	382.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	177.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Use DPF for Construction Equipment

Water Exposed Area

3.2 Building Construction - 2030

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.0198	12.8030	25.8062	0.0522		0.2541	0.2541		0.2541	0.2541		4,909.5420	4,909.5420	0.1799		4,914.0383
Total	**2.0198**	**12.8030**	**25.8062**	**0.0522**		**0.2541**	**0.2541**		**0.2541**	**0.2541**		**4,909.5420**	**4,909.5420**	**0.1799**		**4,914.0383**

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	0.7042	26.4177	7.8318	0.0952	2.5859	0.0289	2.6148	0.7444	0.0276	0.7720		10,362.9285	10,362.9285	0.6662		10,379.5845
Worker	1.9117	0.9995	13.3745	0.0527	7.2536	0.0340	7.2877	1.9240	0.0313	1.9553		5,257.8507	5,257.8507	0.1072		5,260.5316
Total	**2.6158**	**27.4172**	**21.2063**	**0.1479**	**9.8396**	**0.0629**	**9.9025**	**2.6684**	**0.0589**	**2.7273**		**15,620.7792**	**15,620.7792**	**0.7735**		**15,640.1161**

3.2 Building Construction - 2030

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.1568	22.9971	29.9408	0.0522		0.2225	0.2225		0.2225	0.2225	0.0000	4,909.5420	4,909.5420	0.1799		4,914.0383
Total	**1.1568**	**22.9971**	**29.9408**	**0.0522**		**0.2225**	**0.2225**		**0.2225**	**0.2225**	**0.0000**	**4,909.5420**	**4,909.5420**	**0.1799**		**4,914.0383**

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	0.7042	26.4177	7.8318	0.0952	2.5859	0.0289	2.6148	0.7444	0.0276	0.7720		10,362.9285	10,362.9285	0.6662		10,379.5845
Worker	1.9117	0.9995	13.3745	0.0527	7.2536	0.0340	7.2877	1.9240	0.0313	1.9553		5,257.8507	5,257.8507	0.1072		5,260.5316
Total	**2.6158**	**27.4172**	**21.2063**	**0.1479**	**9.8396**	**0.0629**	**9.9025**	**2.6684**	**0.0589**	**2.7273**		**15,620.7792**	**15,620.7792**	**0.7735**		**15,640.1161**

3.2 Building Construction - 2031

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.0198	12.8030	25.8062	0.0522		0.2541	0.2541		0.2541	0.2541		4,909.5420	4,909.5420	0.1799		4,914.0383
Total	**2.0198**	**12.8030**	**25.8062**	**0.0522**		**0.2541**	**0.2541**		**0.2541**	**0.2541**		**4,909.5420**	**4,909.5420**	**0.1799**		**4,914.0383**

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	0.6965	26.1779	7.8081	0.0948	2.5859	0.0284	2.6144	0.7444	0.0272	0.7716		10,331.4113	10,331.4113	0.6632		10,347.9907
Worker	1.7755	0.9363	12.6826	0.0515	7.2536	0.0316	7.2853	1.9240	0.0291	1.9531		5,140.5601	5,140.5601	0.1015		5,143.0972
Total	**2.4720**	**27.1142**	**20.4907**	**0.1463**	**9.8396**	**0.0601**	**9.8996**	**2.6684**	**0.0563**	**2.7247**		**15,471.9714**	**15,471.9714**	**0.7647**		**15,491.0879**

3.2 Building Construction - 2031

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.1568	22.9971	29.9408	0.0522		0.2225	0.2225		0.2225	0.2225	0.0000	4,909.5420	4,909.5420	0.1799		4,914.0383
Total	**1.1568**	**22.9971**	**29.9408**	**0.0522**		**0.2225**	**0.2225**		**0.2225**	**0.2225**	**0.0000**	**4,909.5420**	**4,909.5420**	**0.1799**		**4,914.0383**

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	0.6965	26.1779	7.8081	0.0948	2.5859	0.0284	2.6144	0.7444	0.0272	0.7716		10,331.4113	10,331.4113	0.6632		10,347.9907
Worker	1.7755	0.9363	12.6826	0.0515	7.2536	0.0316	7.2853	1.9240	0.0291	1.9531		5,140.5601	5,140.5601	0.1015		5,143.0972
Total	**2.4720**	**27.1142**	**20.4907**	**0.1463**	**9.8396**	**0.0601**	**9.8996**	**2.6684**	**0.0563**	**2.7247**		**15,471.9714**	**15,471.9714**	**0.7647**		**15,491.0879**

3.2 Building Construction - 2032

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.0198	12.8030	25.8062	0.0522		0.2541	0.2541		0.2541	0.2541		4,909.5420	4,909.5420	0.1799		4,914.0383
Total	**2.0198**	**12.8030**	**25.8062**	**0.0522**		**0.2541**	**0.2541**		**0.2541**	**0.2541**		**4,909.5420**	**4,909.5420**	**0.1799**		**4,914.0383**

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	0.6903	25.9641	7.7978	0.0946	2.5860	0.0280	2.6140	0.7444	0.0268	0.7712		10,308.0645	10,308.0645	0.6606		10,324.5805
Worker	1.6550	0.8837	12.0868	0.0505	7.2536	0.0295	7.2831	1.9240	0.0271	1.9511		5,038.7852	5,038.7852	0.0968		5,041.2043
Total	**2.3453**	**26.8478**	**19.8846**	**0.1450**	**9.8396**	**0.0575**	**9.8971**	**2.6684**	**0.0539**	**2.7223**		**15,346.8497**	**15,346.8497**	**0.7574**		**15,365.7848**

3.2 Building Construction - 2032

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.1568	22.9971	29.9408	0.0522		0.2225	0.2225		0.2225	0.2225	0.0000	4,909.5420	4,909.5420	0.1799		4,914.0383
Total	**1.1568**	**22.9971**	**29.9408**	**0.0522**		**0.2225**	**0.2225**		**0.2225**	**0.2225**	**0.0000**	**4,909.5420**	**4,909.5420**	**0.1799**		**4,914.0383**

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	0.6903	25.9641	7.7978	0.0946	2.5860	0.0280	2.6140	0.7444	0.0268	0.7712		10,308.0645	10,308.0645	0.6606		10,324.5805
Worker	1.6550	0.8837	12.0868	0.0505	7.2536	0.0295	7.2831	1.9240	0.0271	1.9511		5,038.7852	5,038.7852	0.0968		5,041.2043
Total	**2.3453**	**26.8478**	**19.8846**	**0.1450**	**9.8396**	**0.0575**	**9.8971**	**2.6684**	**0.0539**	**2.7223**		**15,346.8497**	**15,346.8497**	**0.7574**		**15,365.7848**

3.2 Building Construction - 2033

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.0198	12.8030	25.8062	0.0522		0.2541	0.2541		0.2541	0.2541		4,909.5420	4,909.5420	0.1799		4,914.0383
Total	**2.0198**	**12.8030**	**25.8062**	**0.0522**		**0.2541**	**0.2541**		**0.2541**	**0.2541**		**4,909.5420**	**4,909.5420**	**0.1799**		**4,914.0383**

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	0.6859	25.7721	7.7934	0.0943	2.5860	0.0277	2.6136	0.7444	0.0264	0.7709		10,289.2958	10,289.2958	0.6585		10,305.7591
Worker	1.5497	0.8391	11.5721	0.0496	7.2536	0.0275	7.2811	1.9240	0.0253	1.9493		4,951.1466	4,951.1466	0.0927		4,953.4643
Total	**2.2356**	**26.6112**	**19.3655**	**0.1439**	**9.8396**	**0.0552**	**9.8948**	**2.6684**	**0.0517**	**2.7202**		**15,240.4424**	**15,240.4424**	**0.7512**		**15,259.2234**

3.2 Building Construction - 2033

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.1568	22.9971	29.9408	0.0522		0.2225	0.2225		0.2225	0.2225	0.0000	4,909.5420	4,909.5420	0.1799		4,914.0383
Total	**1.1568**	**22.9971**	**29.9408**	**0.0522**		**0.2225**	**0.2225**		**0.2225**	**0.2225**	**0.0000**	**4,909.5420**	**4,909.5420**	**0.1799**		**4,914.0383**

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	0.6859	25.7721	7.7934	0.0943	2.5860	0.0277	2.6136	0.7444	0.0264	0.7709		10,289.2958	10,289.2958	0.6585		10,305.7591
Worker	1.5497	0.8391	11.5721	0.0496	7.2536	0.0275	7.2811	1.9240	0.0253	1.9493		4,951.1466	4,951.1466	0.0927		4,953.4643
Total	**2.2356**	**26.6112**	**19.3655**	**0.1439**	**9.8396**	**0.0552**	**9.8948**	**2.6684**	**0.0517**	**2.7202**		**15,240.4424**	**15,240.4424**	**0.7512**		**15,259.2234**

3.3 Paving - 2033

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	1.3845	7.1202	15.8495	0.0281		0.3306	0.3306		0.3306	0.3306		2,656.5168	2,656.5168	0.1245		2,659.6302
Paving	0.0297					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**1.4142**	**7.1202**	**15.8495**	**0.0281**		**0.3306**	**0.3306**		**0.3306**	**0.3306**		**2,656.5168**	**2,656.5168**	**0.1245**		**2,659.6302**

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	0.0263	0.0143	0.1966	8.4000e-004	0.1232	4.7000e-004	0.1237	0.0327	4.3000e-004	0.0331		84.1078	84.1078	1.5700e-003		84.1472
Total	**0.0263**	**0.0143**	**0.1966**	**8.4000e-004**	**0.1232**	**4.7000e-004**	**0.1237**	**0.0327**	**4.3000e-004**	**0.0331**		**84.1078**	**84.1078**	**1.5700e-003**		**84.1472**

3.3 Paving - 2033

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	0.5609	11.2952	17.2957	0.0281		0.0914	0.0914		0.0914	0.0914	0.0000	2,656.5168	2,656.5168	0.1245		2,659.6302
Paving	0.0297					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**0.5906**	**11.2952**	**17.2957**	**0.0281**		**0.0914**	**0.0914**		**0.0914**	**0.0914**	**0.0000**	**2,656.5168**	**2,656.5168**	**0.1245**		**2,659.6302**

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	0.0263	0.0143	0.1966	8.4000e-004	0.1232	4.7000e-004	0.1237	0.0327	4.3000e-004	0.0331		84.1078	84.1078	1.5700e-003		84.1472
Total	**0.0263**	**0.0143**	**0.1966**	**8.4000e-004**	**0.1232**	**4.7000e-004**	**0.1237**	**0.0327**	**4.3000e-004**	**0.0331**		**84.1078**	**84.1078**	**1.5700e-003**		**84.1472**

3.3 Paving - 2034

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	1.3845	7.1202	15.8495	0.0281		0.3306	0.3306		0.3306	0.3306		2,656.5168	2,656.5168	0.1245		2,659.6302
Paving	0.0297					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**1.4142**	**7.1202**	**15.8495**	**0.0281**		**0.3306**	**0.3306**		**0.3306**	**0.3306**		**2,656.5168**	**2,656.5168**	**0.1245**		**2,659.6302**

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	0.0248	0.0136	0.1882	8.3000e-004	0.1232	4.4000e-004	0.1237	0.0327	4.0000e-004	0.0331		82.8250	82.8250	1.5100e-003		82.8628
Total	**0.0248**	**0.0136**	**0.1882**	**8.3000e-004**	**0.1232**	**4.4000e-004**	**0.1237**	**0.0327**	**4.0000e-004**	**0.0331**		**82.8250**	**82.8250**	**1.5100e-003**		**82.8628**

3.3 Paving - 2034

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	0.5609	11.2952	17.2957	0.0281		0.0914	0.0914		0.0914	0.0914	0.0000	2,656.5168	2,656.5168	0.1245		2,659.6302
Paving	0.0297					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**0.5906**	**11.2952**	**17.2957**	**0.0281**		**0.0914**	**0.0914**		**0.0914**	**0.0914**	**0.0000**	**2,656.5168**	**2,656.5168**	**0.1245**		**2,659.6302**

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	0.0248	0.0136	0.1882	8.3000e-004	0.1232	4.4000e-004	0.1237	0.0327	4.0000e-004	0.0331		82.8250	82.8250	1.5100e-003		82.8628
Total	**0.0248**	**0.0136**	**0.1882**	**8.3000e-004**	**0.1232**	**4.4000e-004**	**0.1237**	**0.0327**	**4.0000e-004**	**0.0331**		**82.8250**	**82.8250**	**1.5100e-003**		**82.8628**

3.4 Architectural Coating - 2033

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	28.3985					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1308	0.8563	1.7977	2.9700e-003		0.0203	0.0203		0.0203	0.0203		281.4481	281.4481	0.0114		281.7328
Total	**28.5293**	**0.8563**	**1.7977**	**2.9700e-003**		**0.0203**	**0.0203**		**0.0203**	**0.0203**		**281.4481**	**281.4481**	**0.0114**		**281.7328**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.3107	0.1682	2.3197	9.9400e-003	1.4540	5.5100e-003	1.4595	0.3857	5.0700e-003	0.3907		992.4722	992.4722	0.0186		992.9368
Total	**0.3107**	**0.1682**	**2.3197**	**9.9400e-003**	**1.4540**	**5.5100e-003**	**1.4595**	**0.3857**	**5.0700e-003**	**0.3907**		**992.4722**	**992.4722**	**0.0186**		**992.9368**

3.4 Architectural Coating - 2033

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	28.3985					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.0594	1.3570	1.8324	2.9700e-003		0.0143	0.0143		0.0143	0.0143	0.0000	281.4481	281.4481	0.0114		281.7328
Total	**28.4580**	**1.3570**	**1.8324**	**2.9700e-003**		**0.0143**	**0.0143**		**0.0143**	**0.0143**	**0.0000**	**281.4481**	**281.4481**	**0.0114**		**281.7328**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.3107	0.1682	2.3197	9.9400e-003	1.4540	5.5100e-003	1.4595	0.3857	5.0700e-003	0.3907		992.4722	992.4722	0.0186		992.9368
Total	**0.3107**	**0.1682**	**2.3197**	**9.9400e-003**	**1.4540**	**5.5100e-003**	**1.4595**	**0.3857**	**5.0700e-003**	**0.3907**		**992.4722**	**992.4722**	**0.0186**		**992.9368**

3.4 Architectural Coating - 2034

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	28.3985					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1308	0.8563	1.7977	2.9700e-003		0.0203	0.0203		0.0203	0.0203		281.4481	281.4481	0.0114		281.7328
Total	**28.5293**	**0.8563**	**1.7977**	**2.9700e-003**		**0.0203**	**0.0203**		**0.0203**	**0.0203**		**281.4481**	**281.4481**	**0.0114**		**281.7328**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.2924	0.1607	2.2205	9.7900e-003	1.4540	5.1500e-003	1.4592	0.3857	4.7300e-003	0.3904		977.3355	977.3355	0.0178		977.7806
Total	**0.2924**	**0.1607**	**2.2205**	**9.7900e-003**	**1.4540**	**5.1500e-003**	**1.4592**	**0.3857**	**4.7300e-003**	**0.3904**		**977.3355**	**977.3355**	**0.0178**		**977.7806**

3.4 Architectural Coating - 2034

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	28.3985					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.0594	1.3570	1.8324	2.9700e-003		0.0143	0.0143		0.0143	0.0143	0.0000	281.4481	281.4481	0.0114		281.7328
Total	**28.4580**	**1.3570**	**1.8324**	**2.9700e-003**		**0.0143**	**0.0143**		**0.0143**	**0.0143**	**0.0000**	**281.4481**	**281.4481**	**0.0114**		**281.7328**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.2924	0.1607	2.2205	9.7900e-003	1.4540	5.1500e-003	1.4592	0.3857	4.7300e-003	0.3904		977.3355	977.3355	0.0178		977.7806
Total	**0.2924**	**0.1607**	**2.2205**	**9.7900e-003**	**1.4540**	**5.1500e-003**	**1.4592**	**0.3857**	**4.7300e-003**	**0.3904**		**977.3355**	**977.3355**	**0.0178**		**977.7806**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	7.9427	35.4614	90.2506	0.3920	45.1677	0.1939	45.3616	12.0673	0.1802	12.2475		40,288.9535	40,288.9535	1.8993		40,336.4363
Unmitigated	7.9427	35.4614	90.2506	0.3920	45.1677	0.1939	45.3616	12.0673	0.1802	12.2475		40,288.9535	40,288.9535	1.8993		40,336.4363

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
City Park	0.00	0.00	0.00		
Enclosed Parking with Elevator	0.00	0.00	0.00		
General Office Building	8,917.00	8,917.00	8917.00	21,309,425	21,309,425
Parking Lot	0.00	0.00	0.00		
Strip Mall	0.00	0.00	0.00		
Total	8,917.00	8,917.00	8,917.00	21,309,425	21,309,425

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
City Park	9.50	7.30	7.30	33.00	48.00	19.00	66	28	6
Enclosed Parking with Elevator	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
General Office Building	9.50	7.30	7.30	33.00	48.00	19.00	77	19	4
Parking Lot	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Strip Mall	9.50	7.30	7.30	16.60	64.40	19.00	45	40	15

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
City Park	0.617626	0.036451	0.176904	0.096837	0.011340	0.005282	0.018425	0.026503	0.001944	0.001632	0.005548	0.000800	0.000709
Enclosed Parking with Elevator	0.617626	0.036451	0.176904	0.096837	0.011340	0.005282	0.018425	0.026503	0.001944	0.001632	0.005548	0.000800	0.000709
General Office Building	0.617626	0.036451	0.176904	0.096837	0.011340	0.005282	0.018425	0.026503	0.001944	0.001632	0.005548	0.000800	0.000709
Parking Lot	0.617626	0.036451	0.176904	0.096837	0.011340	0.005282	0.018425	0.026503	0.001944	0.001632	0.005548	0.000800	0.000709
Strip Mall	0.617626	0.036451	0.176904	0.096837	0.011340	0.005282	0.018425	0.026503	0.001944	0.001632	0.005548	0.000800	0.000709

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.5596	5.0877	4.2737	0.0305		0.3867	0.3867		0.3867	0.3867		6,105.2145	6,105.2145	0.1170	0.1119	6,141.4947
NaturalGas Unmitigated	0.5596	5.0877	4.2737	0.0305		0.3867	0.3867		0.3867	0.3867		6,105.2145	6,105.2145	0.1170	0.1119	6,141.4947

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
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
General Office Building	51719.6	0.5578	5.0706	4.2593	0.0304		0.3854	0.3854		0.3854	0.3854		6,084.6575	6,084.6575	0.1166	0.1116	6,120.8156
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
Strip Mall	174.734	1.8800e-003	0.0171	0.0144	1.0000e-004		1.3000e-003	1.3000e-003		1.3000e-003	1.3000e-003		20.5570	20.5570	3.9000e-004	3.8000e-004	20.6791
Total		**0.5596**	**5.0877**	**4.2737**	**0.0305**		**0.3867**	**0.3867**		**0.3867**	**0.3867**		**6,105.2145**	**6,105.2145**	**0.1170**	**0.1119**	**6,141.4947**

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					
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
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
General Office Building	51.7196	0.5578	5.0706	4.2593	0.0304		0.3854	0.3854		0.3854	0.3854		6,084.6575	6,084.6575	0.1166	0.1116	6,120.8156
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
Strip Mall	0.174734	1.8800e-003	0.0171	0.0144	1.0000e-004		1.3000e-003	1.3000e-003		1.3000e-003	1.3000e-003		20.5570	20.5570	3.9000e-004	3.8000e-004	20.6791
Total		**0.5596**	**5.0877**	**4.2737**	**0.0305**		**0.3867**	**0.3867**		**0.3867**	**0.3867**		**6,105.2145**	**6,105.2145**	**0.1170**	**0.1119**	**6,141.4947**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	23.6592	3.7800e-003	0.4209	3.0000e-005		1.4900e-003	1.4900e-003		1.4900e-003	1.4900e-003		0.9073	0.9073	2.3400e-003		0.9658
Unmitigated	23.6592	3.7800e-003	0.4209	3.0000e-005		1.4900e-003	1.4900e-003		1.4900e-003	1.4900e-003		0.9073	0.9073	2.3400e-003		0.9658

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	2.5442					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	21.0765					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0385	3.7800e-003	0.4209	3.0000e-005		1.4900e-003	1.4900e-003		1.4900e-003	1.4900e-003		0.9073	0.9073	2.3400e-003		0.9658
Total	**23.6592**	**3.7800e-003**	**0.4209**	**3.0000e-005**		**1.4900e-003**	**1.4900e-003**		**1.4900e-003**	**1.4900e-003**		**0.9073**	**0.9073**	**2.3400e-003**		**0.9658**

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	2.5442					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	21.0765					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0385	3.7800e-003	0.4209	3.0000e-005		1.4900e-003	1.4900e-003		1.4900e-003	1.4900e-003		0.9073	0.9073	2.3400e-003		0.9658
Total	**23.6592**	**3.7800e-003**	**0.4209**	**3.0000e-005**		**1.4900e-003**	**1.4900e-003**		**1.4900e-003**	**1.4900e-003**		**0.9073**	**0.9073**	**2.3400e-003**		**0.9658**

7.0 Water Detail

7.1 Mitigation Measures Water

Apply Water Conservation Strategy

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

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

10.0 Stationary Equipment

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

Riverwalk Project - Mobile Source Emissions

Phase I Operational Emissions						
	ROG	NOx	CO	SO2	PM10	PM2.5
Area	57.1838	3.4093	158.4826	0.0185	1.0036	1.0036
Energy	0.4886	4.2132	2.0542	0.0267	0.3376	0.3376
Mobile - Other	8.291104	57.43625	80.77741	0.331399	24.291329	6.788554
Mobile - Light Duty	4.466776	7.403232	58.98246	0.219186	24.249362	6.540469
Total	70.43028	72.46198	300.2967	0.595785	49.881891	14.67022
% Passenger Veh. Emissions	59.74%	26.20%	66.79%	64.56%	73.33%	72.63%

Phase I Data		Daily VMT	Annual VMT
Residents	3591	35548.92	12975355.8
Employees	351	6861.242	2504353.33
Total Annual VMT			15,479,709
Phase I CalEEMod VMT	42,635,384	-64%	36%

Phase II Operational Emissions						
	ROG	NOx	CO	SO2	PM10	PM2.5
Area	66.6089	4.2611	197.8829	0.0232	1.2558	1.2588
Energy	0.5254	4.4906	1.9142	0.0287	0.363	0.363
Mobile - Other	6.204453	45.14895	59.7324	0.273835	21.175388	5.850849
Mobile - Light Duty	3.830666	6.615327	50.86244	0.199599	25.895122	6.965438
Total	77.16942	60.51598	310.3919	0.525334	48.69	14.43809
% Passenger Veh. Emissions	58.94%	25.41%	66.44%	62.89%	73.98%	73.46%

Phase II Data		Daily VMT	Annual VMT
Residents	4493	44,482.68	16,236,178.20
Employees	26	512.73	187147.91
Total Annual VMT			16,423,326
Phase II CalEEMod VMT	38,183,968	-57%	43%

Phase III Operational Emissions						
	ROG	NOx	CO	SO2	PM10	PM2.5
Area	23.6592	3.78E-03	0.4209	3.00E-05	1.49E-03	1.49E-03
Energy	0.5596	5.0877	4.2737	0.0305	0.3867	0.3867
Mobile - Other	3.433629	26.72726	31.42526	0.15092	11.843914	3.25906
Mobile - Light Duty	2.912905	5.642344	38.00176	0.15574	21.65276	5.806622
Total	30.56533	37.46108	74.12162	0.33719	33.884864	9.453872
% Passenger Veh. Emissions	56.77%	24.63%	65.18%	61.50%	73.89%	73.39%

Phase III Data		Daily VMT	Annual VMT
Residents	0		
Employees	1927	37,715.30	13,766,085.96
Total Annual VMT			13,766,086
Phase III CalEEMod VMT	21,309,425	-35%	65%

Per the TIA (LLG 2020)		
Resident VMT per capita		9.9
VMT per employee		19.57

Appendix B

CalEEMod Air Emission Model Results –
Summer Emissions for Construction and Operation
Sequential Phasing

Riverwalk Phase I Sequential

San Diego County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Office Park	65.00	1000sqft	1.49	65,000.00	0
Enclosed Parking with Elevator	3,079.00	Space	27.71	1,231,600.00	0
Parking Lot	441.00	Space	3.97	176,400.00	0
City Park	4.76	Acre	4.76	207,345.60	0
Apartments High Rise	1,910.00	Dwelling Unit	30.81	1,910,000.00	5463
Strip Mall	110.30	1000sqft	2.53	110,300.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.6	**Precipitation Freq (Days)**	40
Climate Zone	13			**Operational Year**	2025
Utility Company	San Diego Gas & Electric				
CO2 Intensity (lb/MWhr)	720.49	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use -

Construction Phase - Default construction duration adjusted to reflect applicant's phasing.

Off-road Equipment -

Off-road Equipment - Defaults modified based on contractor input

Off-road Equipment - Added "other construction equipment" to account for breakers

Off-road Equipment - modified to match Phase II sequential demo, site prep and grading

Off-road Equipment - Defaults modified based on contractor input

Off-road Equipment -

Off-road Equipment - Defaults modified to reflect contractor recommendations.

Trips and VMT - Data modifed to reflect construction schedule

Demolition -

Grading - Site Preparation acreage calculated for equipment type/number x days in operation

Architectural Coating - Rule 67 100 g/L VOC emissions for painting

Vehicle Trips - Trip generation rates modifed to reflect daily trips/number of residenital units to match TIA.

Woodstoves - Assumes no fireplace. Assumes 5% of 95 units in Phase I would have natural gas hearths

Area Coating - 100 g/L VOC per APCD Rule 67 for interior and exterior architectural coating

Construction Off-road Equipment Mitigation - Assumes Tier 3 and Level 1 DPF

Mobile Land Use Mitigation -

Area Mitigation - Rule 67 limits VOC to 100 g/L

Water Mitigation -

Waste Mitigation -

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	250.00	100.00
tblArchitecturalCoating	EF_Nonresidential_Interior	250.00	100.00

tblArchitecturalCoating	EF_Parking	250.00	100.00
tblArchitecturalCoating	EF_Residential_Exterior	250.00	100.00
tblArchitecturalCoating	EF_Residential_Interior	250.00	100.00
tblAreaCoating	Area_EF_Nonresidential_Exterior	250	100
tblAreaCoating	Area_EF_Nonresidential_Interior	250	100
tblAreaCoating	Area_EF_Parking	250	100
tblAreaCoating	Area_EF_Residential_Exterior	250	100
tblAreaCoating	Area_EF_Residential_Interior	250	100
tblAreaMitigation	UseLowVOCPaintParkingCheck	False	True
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
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tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	5.00

tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	9.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	12.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	6.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	17.00
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
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tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3

tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstructionPhase	NumDays	75.00	413.00
tblConstructionPhase	NumDays	1,110.00	1,061.00
tblConstructionPhase	NumDays	110.00	264.00
tblConstructionPhase	NumDays	75.00	43.00
tblConstructionPhase	NumDays	40.00	60.00
tblFireplaces	FireplaceWoodMass	3,078.40	0.00
tblFireplaces	NumberGas	1,050.50	96.00
tblFireplaces	NumberNoFireplace	191.00	0.00
tblFireplaces	NumberWood	668.50	0.00
tblGrading	AcresOfGrading	0.00	180.00
tblGrading	MaterialImported	0.00	200,000.00
tblGrading	MaterialImported	0.00	200,000.00
tblOffRoadEquipment	HorsePower	172.00	16.00
tblOffRoadEquipment	LoadFactor	0.42	0.38
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	3.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	3.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	4.00
tblTripsAndVMT	HaulingTripNumber	45.00	40.00
tblTripsAndVMT	HaulingTripNumber	25,000.00	20,000.00
tblTripsAndVMT	HaulingTripNumber	25,000.00	20,000.00
tblTripsAndVMT	WorkerTripNumber	25.00	20.00
tblTripsAndVMT	WorkerTripNumber	25.00	13.00

tblTripsAndVMT	WorkerTripNumber	33.00	43.00
tblVehicleTrips	ST_TR	4.98	7.82
tblVehicleTrips	ST_TR	22.75	0.00
tblVehicleTrips	ST_TR	1.64	0.00
tblVehicleTrips	ST_TR	42.04	0.00
tblVehicleTrips	SU_TR	3.65	7.82
tblVehicleTrips	SU_TR	16.74	0.00
tblVehicleTrips	SU_TR	0.76	0.00
tblVehicleTrips	SU_TR	20.43	0.00
tblVehicleTrips	WD_TR	4.20	7.82
tblVehicleTrips	WD_TR	1.89	0.00
tblVehicleTrips	WD_TR	11.42	0.00
tblVehicleTrips	WD_TR	44.32	0.00
tblWoodstoves	NumberCatalytic	95.50	0.00
tblWoodstoves	NumberNoncatalytic	95.50	0.00
tblWoodstoves	WoodstoveWoodMass	3,019.20	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					
2021	19.7296	183.7101	155.3024	0.5300	33.6027	5.4347	38.7641	12.0376	5.0159	16.3651	0.0000	53,940.2642	53,940.2642	6.5635	0.0000	54,104.3508
2022	17.9774	162.8328	147.0033	0.5213	36.4122	4.3467	40.7588	10.6344	4.0446	14.6790	0.0000	53,088.6526	53,088.6526	6.4795	0.0000	53,250.6391
2023	10.5147	69.1294	87.4913	0.3412	20.7044	1.4537	22.1581	5.5680	1.3743	6.9423	0.0000	34,858.1976	34,858.1976	2.3584	0.0000	34,917.1584
2024	74.1435	68.3166	94.6494	0.3675	24.1710	1.3805	25.5515	6.4876	1.3069	7.7945	0.0000	37,481.5158	37,481.5158	2.3983	0.0000	37,541.4727
2025	74.7785	74.0466	105.5767	0.3829	24.2942	1.6439	25.9382	6.5202	1.5443	8.0645	0.0000	38,965.2356	38,965.2356	3.0625	0.0000	39,041.7968
Maximum	**74.7785**	**183.7101**	**155.3024**	**0.5300**	**36.4122**	**5.4347**	**40.7588**	**12.0376**	**5.0159**	**16.3651**	**0.0000**	**53,940.2642**	**53,940.2642**	**6.5635**	**0.0000**	**54,104.3508**

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					
2021	13.6172	153.2954	171.0155	0.5300	27.6073	0.9160	28.5233	7.8319	0.8992	8.7311	0.0000	53,940.2642	53,940.2642	6.5635	0.0000	54,104.3508
2022	13.0448	148.3870	166.2752	0.5213	30.4168	0.8792	31.2959	8.5215	0.8635	9.3851	0.0000	53,088.6526	53,088.6526	6.4795	0.0000	53,250.6390
2023	8.9841	67.2977	92.2585	0.3412	20.7044	0.4341	21.1385	5.5680	0.4230	5.9911	0.0000	34,858.1976	34,858.1976	2.3584	0.0000	34,917.1584
2024	72.6586	68.4872	99.6228	0.3675	24.1710	0.4600	24.6311	6.4876	0.4474	6.9349	0.0000	37,481.5158	37,481.5158	2.3983	0.0000	37,541.4727
2025	73.1151	78.8913	113.4202	0.3829	24.2942	0.5423	24.8366	6.5202	0.5298	7.0501	0.0000	38,965.2356	38,965.2356	3.0625	0.0000	39,041.7968
Maximum	**73.1151**	**153.2954**	**171.0155**	**0.5300**	**30.4168**	**0.9160**	**31.2959**	**8.5215**	**0.8992**	**9.3851**	**0.0000**	**53,940.2642**	**53,940.2642**	**6.5635**	**0.0000**	**54,104.3508**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**7.98**	**7.47**	**-8.91**	**0.00**	**8.62**	**77.34**	**14.85**	**15.32**	**76.19**	**29.26**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	57.1838	3.4093	158.4826	0.0185		1.0036	1.0036		1.0036	1.0036	0.0000	2,317.4858	2,317.4858	0.3128	0.0373	2,336.4120
Energy	0.4886	4.2132	2.0542	0.0267		0.3376	0.3376		0.3376	0.3376		5,330.2055	5,330.2055	0.1022	0.0977	5,361.8802
Mobile	20.5997	77.8488	243.3007	0.9353	90.4047	0.7020	91.1067	24.1570	0.6529	24.8098		95,377.9802	95,377.9802	4.5168		95,490.8996
Total	**78.2721**	**85.4712**	**403.8375**	**0.9805**	**90.4047**	**2.0432**	**92.4479**	**24.1570**	**1.9941**	**26.1510**	**0.0000**	**103,025.6715**	**103,025.6715**	**4.9317**	**0.1350**	**103,189.1918**

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	57.1838	3.4093	158.4826	0.0185		1.0036	1.0036		1.0036	1.0036	0.0000	2,317.4858	2,317.4858	0.3128	0.0373	2,336.4120
Energy	0.4886	4.2132	2.0542	0.0267		0.3376	0.3376		0.3376	0.3376		5,330.2055	5,330.2055	0.1022	0.0977	5,361.8802
Mobile	20.5997	77.8488	243.3007	0.9353	90.4047	0.7020	91.1067	24.1570	0.6529	24.8098		95,377.9802	95,377.9802	4.5168		95,490.8996
Total	**78.2721**	**85.4712**	**403.8375**	**0.9805**	**90.4047**	**2.0432**	**92.4479**	**24.1570**	**1.9941**	**26.1510**	**0.0000**	**103,025.6715**	**103,025.6715**	**4.9317**	**0.1350**	**103,189.1918**

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

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	1/4/2021	4/9/2021	5	70	
2	Site Preparation	Site Preparation	1/4/2021	3/26/2021	5	60	
3	Grading	Grading	3/29/2021	3/31/2022	5	264	
4	Building Construction	Building Construction	11/6/2021	12/1/2025	5	1061	
5	Architectural Coating	Architectural Coating	6/1/2024	12/31/2025	5	413	
6	Paving	Paving	9/1/2025	10/29/2025	5	43	

Acres of Grading (Site Preparation Phase): 180

Acres of Grading (Grading Phase): 1188

Acres of Paving: 31.68

Residential Indoor: 3,867,750; Residential Outdoor: 1,289,250; Non-Residential Indoor: 262,950; Non-Residential Outdoor: 87,650; Striped Parking Area: 84,480 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Bore/Drill Rigs	1	8.00	221	0.50
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Excavators	2	8.00	158	0.38
Demolition	Other Construction Equipment	2	8.00	172	0.42

Demolition	Rubber Tired Dozers	2	8.00	247	0.40
Demolition	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Site Preparation	Bore/Drill Rigs	1	6.00	221	0.50
Site Preparation	Other Construction Equipment	2	8.00	16	0.38
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Bore/Drill Rigs	1	8.00	221	0.50
Grading	Excavators	2	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Off-Highway Tractors	1	8.00	124	0.44
Grading	Rollers	1	8.00	80	0.38
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Scrapers	4	8.00	367	0.48
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Building Construction	Cranes	3	7.00	231	0.29
Building Construction	Forklifts	4	8.00	89	0.20
Building Construction	Generator Sets	3	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
Architectural Coating	Air Compressors	1	6.00	78	0.48
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

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	10	20.00	0.00	40.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	10	13.00	0.00	20,000.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	13	43.00	0.00	20,000.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	14	2,110.00	498.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	422.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Use DPF for Construction Equipment

Water Exposed Area

3.2 Demolition - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.1424	0.0000	0.1424	0.0216	0.0000	0.0216			0.0000			0.0000
Off-Road	4.4084	44.8635	32.9979	0.0617		2.2203	2.2203		2.0565	2.0565		5,958.6644	5,958.6644	1.7699		6,002.9116
Total	**4.4084**	**44.8635**	**32.9979**	**0.0617**	**0.1424**	**2.2203**	**2.3627**	**0.0216**	**2.0565**	**2.0781**		**5,958.6644**	**5,958.6644**	**1.7699**		**6,002.9116**

3.2 Demolition - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	4.2400e-003	0.1465	0.0358	4.4000e-004	9.9800e-003	4.5000e-004	0.0104	2.7400e-003	4.3000e-004	3.1600e-003		48.3246	48.3246	4.2700e-003		48.4313
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0692	0.0449	0.5305	1.6300e-003	0.1643	1.1300e-003	0.1654	0.0436	1.0500e-003	0.0446		162.8882	162.8882	4.6500e-003		163.0044
Total	**0.0734**	**0.1914**	**0.5663**	**2.0700e-003**	**0.1743**	**1.5800e-003**	**0.1759**	**0.0463**	**1.4800e-003**	**0.0478**		**211.2128**	**211.2128**	**8.9200e-003**		**211.4357**

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					0.0641	0.0000	0.0641	9.7000e-003	0.0000	9.7000e-003			0.0000			0.0000
Off-Road	1.4891	29.7583	39.9354	0.0617		0.2166	0.2166		0.2166	0.2166	0.0000	5,958.6644	5,958.6644	1.7699		6,002.9116
Total	**1.4891**	**29.7583**	**39.9354**	**0.0617**	**0.0641**	**0.2166**	**0.2807**	**9.7000e-003**	**0.2166**	**0.2263**	**0.0000**	**5,958.6644**	**5,958.6644**	**1.7699**		**6,002.9116**

3.2 Demolition - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	4.2400e-003	0.1465	0.0358	4.4000e-004	9.9800e-003	4.5000e-004	0.0104	2.7400e-003	4.3000e-004	3.1600e-003		48.3246	48.3246	4.2700e-003		48.4313
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0692	0.0449	0.5305	1.6300e-003	0.1643	1.1300e-003	0.1654	0.0436	1.0500e-003	0.0446		162.8882	162.8882	4.6500e-003		163.0044
Total	**0.0734**	**0.1914**	**0.5663**	**2.0700e-003**	**0.1743**	**1.5800e-003**	**0.1759**	**0.0463**	**1.4800e-003**	**0.0478**		**211.2128**	**211.2128**	**8.9200e-003**		**211.4357**

3.3 Site Preparation - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					21.7162	0.0000	21.7162	10.3451	0.0000	10.3451			0.0000			0.0000
Off-Road	4.2983	43.8156	23.8480	0.0463		2.1950	2.1950		2.0194	2.0194		4,482.8951	4,482.8951	1.4499		4,519.1416
Total	**4.2983**	**43.8156**	**23.8480**	**0.0463**	**21.7162**	**2.1950**	**23.9112**	**10.3451**	**2.0194**	**12.3646**		**4,482.8951**	**4,482.8951**	**1.4499**		**4,519.1416**

3.3 Site Preparation - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	2.4743	85.4443	20.9034	0.2571	5.8246	0.2607	6.0853	1.5963	0.2494	1.8457		28,189.3430	28,189.3430	2.4901		28,251.5956
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0450	0.0292	0.3448	1.0600e-003	0.1068	7.4000e-004	0.1075	0.0283	6.8000e-004	0.0290		105.8773	105.8773	3.0200e-003		105.9529
Total	**2.5193**	**85.4735**	**21.2482**	**0.2581**	**5.9314**	**0.2615**	**6.1928**	**1.6246**	**0.2501**	**1.8747**		**28,295.2203**	**28,295.2203**	**2.4931**		**28,357.5485**

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					9.7723	0.0000	9.7723	4.6553	0.0000	4.6553			0.0000			0.0000
Off-Road	1.1066	22.4567	26.7604	0.0463		0.1612	0.1612		0.1612	0.1612	0.0000	4,482.8951	4,482.8951	1.4499		4,519.1416
Total	**1.1066**	**22.4567**	**26.7604**	**0.0463**	**9.7723**	**0.1612**	**9.9335**	**4.6553**	**0.1612**	**4.8165**	**0.0000**	**4,482.8951**	**4,482.8951**	**1.4499**		**4,519.1416**

3.3 Site Preparation - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	2.4743	85.4443	20.9034	0.2571	5.8246	0.2607	6.0853	1.5963	0.2494	1.8457		28,189.3430	28,189.3430	2.4901		28,251.5956
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0450	0.0292	0.3448	1.0600e-003	0.1068	7.4000e-004	0.1075	0.0283	6.8000e-004	0.0290		105.8773	105.8773	3.0200e-003		105.9529
Total	**2.5193**	**85.4735**	**21.2482**	**0.2581**	**5.9314**	**0.2615**	**6.1928**	**1.6246**	**0.2501**	**1.8747**		**28,295.2203**	**28,295.2203**	**2.4931**		**28,357.5485**

3.4 Grading - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					10.9008	0.0000	10.9008	3.8416	0.0000	3.8416			0.0000			0.0000
Off-Road	6.7467	75.3117	51.9403	0.1091		3.1511	3.1511		2.8990	2.8990		10,564.0997	10,564.0997	3.4166		10,649.5158
Total	**6.7467**	**75.3117**	**51.9403**	**0.1091**	**10.9008**	**3.1511**	**14.0519**	**3.8416**	**2.8990**	**6.7407**		**10,564.0997**	**10,564.0997**	**3.4166**		**10,649.5158**

3.4 Grading - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.5623	19.4192	4.7508	0.0584	1.6443	0.0593	1.7035	0.4415	0.0567	0.4981		6,406.6689	6,406.6689	0.5659		6,420.8172
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1487	0.0966	1.1405	3.5100e-003	0.3532	2.4400e-003	0.3557	0.0937	2.2500e-003	0.0959		350.2096	350.2096	9.9900e-003		350.4594
Total	**0.7111**	**19.5158**	**5.8913**	**0.0619**	**1.9975**	**0.0617**	**2.0592**	**0.5352**	**0.0589**	**0.5941**		**6,756.8784**	**6,756.8784**	**0.5759**		**6,771.2766**

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					4.9054	0.0000	4.9054	1.7287	0.0000	1.7287			0.0000			0.0000
Off-Road	2.6824	52.6173	63.4900	0.1091		0.3343	0.3343		0.3343	0.3343	0.0000	10,564.0997	10,564.0997	3.4166		10,649.5158
Total	**2.6824**	**52.6173**	**63.4900**	**0.1091**	**4.9054**	**0.3343**	**5.2396**	**1.7287**	**0.3343**	**2.0630**	**0.0000**	**10,564.0997**	**10,564.0997**	**3.4166**		**10,649.5158**

3.4 Grading - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.5623	19.4192	4.7508	0.0584	1.6443	0.0593	1.7035	0.4415	0.0567	0.4981		6,406.6689	6,406.6689	0.5659		6,420.8172
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1487	0.0966	1.1405	3.5100e-003	0.3532	2.4400e-003	0.3557	0.0937	2.2500e-003	0.0959		350.2096	350.2096	9.9900e-003		350.4594
Total	**0.7111**	**19.5158**	**5.8913**	**0.0619**	**1.9975**	**0.0617**	**2.0592**	**0.5352**	**0.0589**	**0.5941**		**6,756.8784**	**6,756.8784**	**0.5759**		**6,771.2766**

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					10.9008	0.0000	10.9008	3.8416	0.0000	3.8416			0.0000			0.0000
Off-Road	5.8762	62.8771	48.7603	0.1092		2.6086	2.6086		2.3999	2.3999		10,574.6367	10,574.6367	3.4201		10,660.1380
Total	**5.8762**	**62.8771**	**48.7603**	**0.1092**	**10.9008**	**2.6086**	**13.5094**	**3.8416**	**2.3999**	**6.2415**		**10,574.6367**	**10,574.6367**	**3.4201**		**10,660.1380**

3.4 Grading - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.5280	17.7703	4.7215	0.0575	4.4538	0.0502	4.5040	1.1311	0.0480	1.1791		6,323.0919	6,323.0919	0.5604		6,337.1008
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1406	0.0881	1.0606	3.3800e-003	0.3532	2.3900e-003	0.3556	0.0937	2.2000e-003	0.0959		337.3607	337.3607	9.1600e-003		337.5898
Total	**0.6686**	**17.8585**	**5.7821**	**0.0609**	**4.8070**	**0.0526**	**4.8596**	**1.2248**	**0.0502**	**1.2750**		**6,660.4526**	**6,660.4526**	**0.5695**		**6,674.6906**

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					4.9054	0.0000	4.9054	1.7287	0.0000	1.7287			0.0000			0.0000
Off-Road	2.6824	52.6173	63.4900	0.1092		0.3343	0.3343		0.3343	0.3343	0.0000	10,574.6367	10,574.6367	3.4201		10,660.1380
Total	**2.6824**	**52.6173**	**63.4900**	**0.1092**	**4.9054**	**0.3343**	**5.2396**	**1.7287**	**0.3343**	**2.0630**	**0.0000**	**10,574.6367**	**10,574.6367**	**3.4201**		**10,660.1380**

3.4 Grading - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.5280	17.7703	4.7215	0.0575	4.4538	0.0502	4.5040	1.1311	0.0480	1.1791		6,323.0919	6,323.0919	0.5604		6,337.1008
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1406	0.0881	1.0606	3.3800e-003	0.3532	2.3900e-003	0.3556	0.0937	2.2000e-003	0.0959		337.3607	337.3607	9.1600e-003		337.5898
Total	**0.6686**	**17.8585**	**5.7821**	**0.0609**	**4.8070**	**0.0526**	**4.8596**	**1.2248**	**0.0502**	**1.2750**		**6,660.4526**	**6,660.4526**	**0.5695**		**6,674.6906**

3.5 Building Construction - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	3.4676	33.4299	28.5825	0.0517		1.7223	1.7223		1.6307	1.6307		4,925.2567	4,925.2567	1.0437		4,951.3496
Total	**3.4676**	**33.4299**	**28.5825**	**0.0517**		**1.7223**	**1.7223**		**1.6307**	**1.6307**		**4,925.2567**	**4,925.2567**	**1.0437**		**4,951.3496**

3.5 Building Construction - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	1.5058	50.7111	12.9231	0.1349	3.3713	0.1065	3.4778	0.9705	0.1019	1.0723		14,509.3269	14,509.3269	1.0367		14,535.2454
Worker	7.2983	4.7416	55.9653	0.1724	17.3332	0.1197	17.4529	4.5976	0.1103	4.7079		17,184.7025	17,184.7025	0.4904		17,196.9634
Total	**8.8041**	**55.4527**	**68.8884**	**0.3073**	**20.7044**	**0.2263**	**20.9307**	**5.5680**	**0.2122**	**5.7802**		**31,694.0294**	**31,694.0294**	**1.5272**		**31,732.2088**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.4196	25.7095	32.7459	0.0517		0.2938	0.2938		0.2938	0.2938	0.0000	4,925.2567	4,925.2567	1.0437		4,951.3496
Total	**1.4196**	**25.7095**	**32.7459**	**0.0517**		**0.2938**	**0.2938**		**0.2938**	**0.2938**	**0.0000**	**4,925.2567**	**4,925.2567**	**1.0437**		**4,951.3496**

3.5 Building Construction - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	1.5058	50.7111	12.9231	0.1349	3.3713	0.1065	3.4778	0.9705	0.1019	1.0723		14,509.3269	14,509.3269	1.0367		14,535.2454
Worker	7.2983	4.7416	55.9653	0.1724	17.3332	0.1197	17.4529	4.5976	0.1103	4.7079		17,184.7025	17,184.7025	0.4904		17,196.9634
Total	**8.8041**	**55.4527**	**68.8884**	**0.3073**	**20.7044**	**0.2263**	**20.9307**	**5.5680**	**0.2122**	**5.7802**		**31,694.0294**	**31,694.0294**	**1.5272**		**31,732.2088**

3.5 Building Construction - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	3.1325	29.8495	28.1806	0.0517		1.4767	1.4767		1.3990	1.3990		4,926.3867	4,926.3867	1.0353		4,952.2695
Total	**3.1325**	**29.8495**	**28.1806**	**0.0517**		**1.4767**	**1.4767**		**1.3990**	**1.3990**		**4,926.3867**	**4,926.3867**	**1.0353**		**4,952.2695**

3.5 Building Construction - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	1.4004	47.9239	12.2394	0.1334	3.3713	0.0916	3.4629	0.9705	0.0876	1.0581		14,372.9661	14,372.9661	1.0050		14,398.0907
Worker	6.8996	4.3238	52.0409	0.1661	17.3332	0.1171	17.4503	4.5976	0.1079	4.7054		16,554.2106	16,554.2106	0.4496		16,565.4503
Total	**8.3000**	**52.2477**	**64.2803**	**0.2995**	**20.7044**	**0.2088**	**20.9132**	**5.5680**	**0.1955**	**5.7635**		**30,927.1767**	**30,927.1767**	**1.4546**		**30,963.5410**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3937	25.6635	32.7229	0.0517		0.2836	0.2836		0.2836	0.2836	0.0000	4,926.3867	4,926.3867	1.0353		4,952.2695
Total	**1.3937**	**25.6635**	**32.7229**	**0.0517**		**0.2836**	**0.2836**		**0.2836**	**0.2836**	**0.0000**	**4,926.3867**	**4,926.3867**	**1.0353**		**4,952.2695**

3.5 Building Construction - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	1.4004	47.9239	12.2394	0.1334	3.3713	0.0916	3.4629	0.9705	0.0876	1.0581		14,372.9661	14,372.9661	1.0050		14,398.0907
Worker	6.8996	4.3238	52.0409	0.1661	17.3332	0.1171	17.4503	4.5976	0.1079	4.7054		16,554.2106	16,554.2106	0.4496		16,565.4503
Total	**8.3000**	**52.2477**	**64.2803**	**0.2995**	**20.7044**	**0.2088**	**20.9132**	**5.5680**	**0.1955**	**5.7635**		**30,927.1767**	**30,927.1767**	**1.4546**		**30,963.5410**

3.5 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	2.9020	27.4529	27.9378	0.0517		1.2944	1.2944		1.2261	1.2261		4,927.2436	4,927.2436	1.0268		4,952.9141
Total	**2.9020**	**27.4529**	**27.9378**	**0.0517**		**1.2944**	**1.2944**		**1.2261**	**1.2261**		**4,927.2436**	**4,927.2436**	**1.0268**		**4,952.9141**

3.5 Building Construction - 2023

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	1.0797	37.7279	11.2116	0.1297	3.3712	0.0445	3.4157	0.9705	0.0425	1.0130		14,009.5883	14,009.5883	0.9201		14,032.5899
Worker	6.5330	3.9486	48.3419	0.1597	17.3332	0.1148	17.4480	4.5976	0.1057	4.7033		15,921.3658	15,921.3658	0.4116		15,931.6544
Total	**7.6127**	**41.6765**	**59.5535**	**0.2894**	**20.7044**	**0.1593**	**20.8637**	**5.5680**	**0.1482**	**5.7163**		**29,930.9541**	**29,930.9541**	**1.3316**		**29,964.2443**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3714	25.6212	32.7050	0.0517		0.2748	0.2748		0.2748	0.2748	0.0000	4,927.2436	4,927.2436	1.0268		4,952.9141
Total	**1.3714**	**25.6212**	**32.7050**	**0.0517**		**0.2748**	**0.2748**		**0.2748**	**0.2748**	**0.0000**	**4,927.2436**	**4,927.2436**	**1.0268**		**4,952.9141**

3.5 Building Construction - 2023

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	1.0797	37.7279	11.2116	0.1297	3.3712	0.0445	3.4157	0.9705	0.0425	1.0130		14,009.5883	14,009.5883	0.9201		14,032.5899
Worker	6.5330	3.9486	48.3419	0.1597	17.3332	0.1148	17.4480	4.5976	0.1057	4.7033		15,921.3658	15,921.3658	0.4116		15,931.6544
Total	**7.6127**	**41.6765**	**59.5535**	**0.2894**	**20.7044**	**0.1593**	**20.8637**	**5.5680**	**0.1482**	**5.7163**		**29,930.9541**	**29,930.9541**	**1.3316**		**29,964.2443**

3.5 Building Construction - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.7164	25.5489	27.7396	0.0517		1.1410	1.1410		1.0800	1.0800		4,927.7117	4,927.7117	1.0189		4,953.1851
Total	**2.7164**	**25.5489**	**27.7396**	**0.0517**		**1.1410**	**1.1410**		**1.0800**	**1.0800**		**4,927.7117**	**4,927.7117**	**1.0189**		**4,953.1851**

3.5 Building Construction - 2024

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	1.0417	37.2021	10.8620	0.1287	3.3712	0.0434	3.4146	0.9705	0.0415	1.0119		13,919.4805	13,919.4805	0.9095		13,942.2174
Worker	6.2051	3.6224	45.1981	0.1534	17.3332	0.1127	17.4459	4.5976	0.1038	4.7013		15,294.0630	15,294.0630	0.3784		15,303.5217
Total	**7.2468**	**40.8244**	**56.0600**	**0.2821**	**20.7044**	**0.1561**	**20.8605**	**5.5680**	**0.1452**	**5.7133**		**29,213.5435**	**29,213.5435**	**1.2878**		**29,245.7391**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3528	25.5814	32.6908	0.0517		0.2671	0.2671		0.2671	0.2671	0.0000	4,927.7117	4,927.7117	1.0189		4,953.1851
Total	**1.3528**	**25.5814**	**32.6908**	**0.0517**		**0.2671**	**0.2671**		**0.2671**	**0.2671**	**0.0000**	**4,927.7117**	**4,927.7117**	**1.0189**		**4,953.1851**

3.5 Building Construction - 2024

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	1.0417	37.2021	10.8620	0.1287	3.3712	0.0434	3.4146	0.9705	0.0415	1.0119		13,919.4805	13,919.4805	0.9095		13,942.2174
Worker	6.2051	3.6224	45.1981	0.1534	17.3332	0.1127	17.4459	4.5976	0.1038	4.7013		15,294.0630	15,294.0630	0.3784		15,303.5217
Total	**7.2468**	**40.8244**	**56.0600**	**0.2821**	**20.7044**	**0.1561**	**20.8605**	**5.5680**	**0.1452**	**5.7133**		**29,213.5435**	**29,213.5435**	**1.2878**		**29,245.7391**

3.5 Building Construction - 2025

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.5345	23.6230	27.5762	0.0518		0.9978	0.9978		0.9441	0.9441		4,928.5202	4,928.5202	1.0112		4,953.7992
Total	**2.5345**	**23.6230**	**27.5762**	**0.0518**		**0.9978**	**0.9978**		**0.9441**	**0.9441**		**4,928.5202**	**4,928.5202**	**1.0112**		**4,953.7992**

3.5 Building Construction - 2025

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	1.0111	36.6645	10.6498	0.1277	3.3712	0.0422	3.4134	0.9705	0.0403	1.0108		13,833.8412	13,833.8412	0.9005		13,856.3528
Worker	5.9203	3.3402	42.2196	0.1472	17.3332	0.1110	17.4441	4.5976	0.1021	4.6997		14,675.2952	14,675.2952	0.3494		14,684.0302
Total	**6.9314**	**40.0047**	**52.8694**	**0.2749**	**20.7044**	**0.1531**	**20.8575**	**5.5680**	**0.1424**	**5.7105**		**28,509.1364**	**28,509.1364**	**1.2499**		**28,540.3830**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3367	25.5427	32.6787	0.0518		0.2606	0.2606		0.2606	0.2606	0.0000	4,928.5202	4,928.5202	1.0112		4,953.7992
Total	**1.3367**	**25.5427**	**32.6787**	**0.0518**		**0.2606**	**0.2606**		**0.2606**	**0.2606**	**0.0000**	**4,928.5202**	**4,928.5202**	**1.0112**		**4,953.7992**

3.5 Building Construction - 2025

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	1.0111	36.6645	10.6498	0.1277	3.3712	0.0422	3.4134	0.9705	0.0403	1.0108		13,833.8412	13,833.8412	0.9005		13,856.3528
Worker	5.9203	3.3402	42.2196	0.1472	17.3332	0.1110	17.4441	4.5976	0.1021	4.6997		14,675.2952	14,675.2952	0.3494		14,684.0302
Total	**6.9314**	**40.0047**	**52.8694**	**0.2749**	**20.7044**	**0.1531**	**20.8575**	**5.5680**	**0.1424**	**5.7105**		**28,509.1364**	**28,509.1364**	**1.2499**		**28,540.3830**

3.6 Architectural Coating - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	62.7586					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1808	1.2188	1.8101	2.9700e-003		0.0609	0.0609		0.0609	0.0609		281.4481	281.4481	0.0159		281.8443
Total	**62.9393**	**1.2188**	**1.8101**	**2.9700e-003**		**0.0609**	**0.0609**		**0.0609**	**0.0609**		**281.4481**	**281.4481**	**0.0159**		**281.8443**

3.6 Architectural Coating - 2024

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	1.2410	0.7245	9.0396	0.0307	3.4666	0.0225	3.4892	0.9195	0.0208	0.9403		3,058.8126	3,058.8126	0.0757		3,060.7043
Total	**1.2410**	**0.7245**	**9.0396**	**0.0307**	**3.4666**	**0.0225**	**3.4892**	**0.9195**	**0.0208**	**0.9403**		**3,058.8126**	**3,058.8126**	**0.0757**		**3,060.7043**

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	62.7586					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.0594	1.3570	1.8324	2.9700e-003		0.0143	0.0143		0.0143	0.0143	0.0000	281.4481	281.4481	0.0159		281.8443
Total	**62.8180**	**1.3570**	**1.8324**	**2.9700e-003**		**0.0143**	**0.0143**		**0.0143**	**0.0143**	**0.0000**	**281.4481**	**281.4481**	**0.0159**		**281.8443**

3.6 Architectural Coating - 2024

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	1.2410	0.7245	9.0396	0.0307	3.4666	0.0225	3.4892	0.9195	0.0208	0.9403		3,058.8126	3,058.8126	0.0757		3,060.7043
Total	**1.2410**	**0.7245**	**9.0396**	**0.0307**	**3.4666**	**0.0225**	**3.4892**	**0.9195**	**0.0208**	**0.9403**		**3,058.8126**	**3,058.8126**	**0.0757**		**3,060.7043**

3.6 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	62.7586					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1709	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515		281.4481	281.4481	0.0154		281.8319
Total	**62.9294**	**1.1455**	**1.8091**	**2.9700e-003**		**0.0515**	**0.0515**		**0.0515**	**0.0515**		**281.4481**	**281.4481**	**0.0154**		**281.8319**

3.6 Architectural Coating - 2025

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	1.1841	0.6680	8.4439	0.0294	3.4666	0.0222	3.4888	0.9195	0.0204	0.9399		2,935.0591	2,935.0591	0.0699		2,936.8061
Total	**1.1841**	**0.6680**	**8.4439**	**0.0294**	**3.4666**	**0.0222**	**3.4888**	**0.9195**	**0.0204**	**0.9399**		**2,935.0591**	**2,935.0591**	**0.0699**		**2,936.8061**

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	62.7586					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.0594	1.3570	1.8324	2.9700e-003		0.0143	0.0143		0.0143	0.0143	0.0000	281.4481	281.4481	0.0154		281.8319
Total	**62.8180**	**1.3570**	**1.8324**	**2.9700e-003**		**0.0143**	**0.0143**		**0.0143**	**0.0143**	**0.0000**	**281.4481**	**281.4481**	**0.0154**		**281.8319**

3.6 Architectural Coating - 2025

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	1.1841	0.6680	8.4439	0.0294	3.4666	0.0222	3.4888	0.9195	0.0204	0.9399		2,935.0591	2,935.0591	0.0699		2,936.8061
Total	**1.1841**	**0.6680**	**8.4439**	**0.0294**	**3.4666**	**0.0222**	**3.4888**	**0.9195**	**0.0204**	**0.9399**		**2,935.0591**	**2,935.0591**	**0.0699**		**2,936.8061**

3.7 Paving - 2025

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.9152	8.5816	14.5780	0.0228		0.4185	0.4185		0.3850	0.3850		2,206.7452	2,206.7452	0.7137		2,224.5878
Paving	0.2419					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**1.1570**	**8.5816**	**14.5780**	**0.0228**		**0.4185**	**0.4185**		**0.3850**	**0.3850**		**2,206.7452**	**2,206.7452**	**0.7137**		**2,224.5878**

3.7 Paving - 2025

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	0.0421	0.0238	0.3001	1.0500e-003	0.1232	7.9000e-004	0.1240	0.0327	7.3000e-004	0.0334		104.3267	104.3267	2.4800e-003		104.3888
Total	**0.0421**	**0.0238**	**0.3001**	**1.0500e-003**	**0.1232**	**7.9000e-004**	**0.1240**	**0.0327**	**7.3000e-004**	**0.0334**		**104.3267**	**104.3267**	**2.4800e-003**		**104.3888**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.5609	11.2952	17.2957	0.0228		0.0914	0.0914		0.0914	0.0914	0.0000	2,206.7452	2,206.7452	0.7137		2,224.5878
Paving	0.2419					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**0.8028**	**11.2952**	**17.2957**	**0.0228**		**0.0914**	**0.0914**		**0.0914**	**0.0914**	**0.0000**	**2,206.7452**	**2,206.7452**	**0.7137**		**2,224.5878**

3.7 Paving - 2025

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	0.0421	0.0238	0.3001	1.0500e-003	0.1232	7.9000e-004	0.1240	0.0327	7.3000e-004	0.0334		104.3267	104.3267	2.4800e-003		104.3888
Total	**0.0421**	**0.0238**	**0.3001**	**1.0500e-003**	**0.1232**	**7.9000e-004**	**0.1240**	**0.0327**	**7.3000e-004**	**0.0334**		**104.3267**	**104.3267**	**2.4800e-003**		**104.3888**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	20.5997	77.8488	243.3007	0.9353	90.4047	0.7020	91.1067	24.1570	0.6529	24.8098		95,377.9802	95,377.9802	4.5168		95,490.8996
Unmitigated	20.5997	77.8488	243.3007	0.9353	90.4047	0.7020	91.1067	24.1570	0.6529	24.8098		95,377.9802	95,377.9802	4.5168		95,490.8996

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments High Rise	14,936.20	14,936.20	14936.20	42,647,382	42,647,382
City Park	0.00	0.00	0.00		
Enclosed Parking with Elevator	0.00	0.00	0.00		
Office Park	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Strip Mall	0.00	0.00	0.00		
Total	14,936.20	14,936.20	14,936.20	42,647,382	42,647,382

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 High Rise	10.80	7.30	7.50	41.60	18.80	39.60	86	11	3
City Park	9.50	7.30	7.30	33.00	48.00	19.00	66	28	6
Enclosed Parking with Elevator	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Office Park	9.50	7.30	7.30	33.00	48.00	19.00	82	15	3
Parking Lot	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Strip Mall	9.50	7.30	7.30	16.60	64.40	19.00	45	40	15

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments High Rise	0.609162	0.038894	0.178600	0.101308	0.013823	0.005356	0.016956	0.024628	0.001928	0.001823	0.005807	0.000764	0.000950
City Park	0.609162	0.038894	0.178600	0.101308	0.013823	0.005356	0.016956	0.024628	0.001928	0.001823	0.005807	0.000764	0.000950
Enclosed Parking with Elevator	0.609162	0.038894	0.178600	0.101308	0.013823	0.005356	0.016956	0.024628	0.001928	0.001823	0.005807	0.000764	0.000950
Office Park	0.609162	0.038894	0.178600	0.101308	0.013823	0.005356	0.016956	0.024628	0.001928	0.001823	0.005807	0.000764	0.000950
Parking Lot	0.609162	0.038894	0.178600	0.101308	0.013823	0.005356	0.016956	0.024628	0.001928	0.001823	0.005807	0.000764	0.000950
Strip Mall	0.609162	0.038894	0.178600	0.101308	0.013823	0.005356	0.016956	0.024628	0.001928	0.001823	0.005807	0.000764	0.000950

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Riverwalk Phase I Sequential - San Diego 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	0.4886	4.2132	2.0542	0.0267		0.3376	0.3376		0.3376	0.3376		5,330.2055	5,330.2055	0.1022	0.0977	5,361.8802
NaturalGas Unmitigated	0.4886	4.2132	2.0542	0.0267		0.3376	0.3376		0.3376	0.3376		5,330.2055	5,330.2055	0.1022	0.0977	5,361.8802

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 High Rise	38873.7	0.4192	3.5825	1.5245	0.0229		0.2897	0.2897		0.2897	0.2897		4,573.3742	4,573.3742	0.0877	0.0839	4,600.5515
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
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
Office Park	5759.18	0.0621	0.5646	0.4743	3.3900e-003		0.0429	0.0429		0.0429	0.0429		677.5504	677.5504	0.0130	0.0124	681.5767
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
Strip Mall	673.888	7.2700e-003	0.0661	0.0555	4.0000e-004		5.0200e-003	5.0200e-003		5.0200e-003	5.0200e-003		79.2809	79.2809	1.5200e-003	1.4500e-003	79.7520
Total		**0.4886**	**4.2132**	**2.0543**	**0.0267**		**0.3376**	**0.3376**		**0.3376**	**0.3376**		**5,330.2054**	**5,330.2054**	**0.1022**	**0.0977**	**5,361.8802**

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 High Rise	38.8737	0.4192	3.5825	1.5245	0.0229		0.2897	0.2897		0.2897	0.2897		4,573.3742	4,573.3742	0.0877	0.0839	4,600.5515
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
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
Office Park	5.75918	0.0621	0.5646	0.4743	3.3900e-003		0.0429	0.0429		0.0429	0.0429		677.5504	677.5504	0.0130	0.0124	681.5767
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
Strip Mall	0.673888	7.2700e-003	0.0661	0.0555	4.0000e-004		5.0200e-003	5.0200e-003		5.0200e-003	5.0200e-003		79.2809	79.2809	1.5200e-003	1.4500e-003	79.7520
Total		**0.4886**	**4.2132**	**2.0543**	**0.0267**		**0.3376**	**0.3376**		**0.3376**	**0.3376**		**5,330.2054**	**5,330.2054**	**0.1022**	**0.0977**	**5,361.8802**

6.0 Area Detail

6.1 Mitigation Measures Area

Use Low VOC Paint - Residential Interior

Use Low VOC Paint - Residential Exterior

Use Low VOC Paint - Non-Residential Interior

Use Low VOC Paint - Non-Residential Exterior

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	57.1838	3.4093	158.4826	0.0185		1.0036	1.0036		1.0036	1.0036	0.0000	2,317.4858	2,317.4858	0.3128	0.0373	2,336.4120
Unmitigated	57.1838	3.4093	158.4826	0.0185		1.0036	1.0036		1.0036	1.0036	0.0000	2,317.4858	2,317.4858	0.3128	0.0373	2,336.4120

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	7.1012					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	45.1348					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.1864	1.5925	0.6777	0.0102		0.1288	0.1288		0.1288	0.1288	0.0000	2,032.9412	2,032.9412	0.0390	0.0373	2,045.0219
Landscaping	4.7614	1.8168	157.8049	8.3500e-003		0.8749	0.8749		0.8749	0.8749		284.5447	284.5447	0.2738		291.3901
Total	**57.1838**	**3.4093**	**158.4826**	**0.0185**		**1.0036**	**1.0036**		**1.0036**	**1.0036**	**0.0000**	**2,317.4858**	**2,317.4858**	**0.3128**	**0.0373**	**2,336.4120**

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	7.1012					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	45.1348					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.1864	1.5925	0.6777	0.0102		0.1288	0.1288		0.1288	0.1288	0.0000	2,032.9412	2,032.9412	0.0390	0.0373	2,045.0219
Landscaping	4.7614	1.8168	157.8049	8.3500e-003		0.8749	0.8749		0.8749	0.8749		284.5447	284.5447	0.2738		291.3901
Total	**57.1838**	**3.4093**	**158.4826**	**0.0185**		**1.0036**	**1.0036**		**1.0036**	**1.0036**	**0.0000**	**2,317.4858**	**2,317.4858**	**0.3128**	**0.0373**	**2,336.4120**

7.0 Water Detail

7.1 Mitigation Measures Water

Apply Water Conservation Strategy

Install Low Flow Bathroom Faucet

Install Low Flow Kitchen Faucet

Install Low Flow Toilet

Install Low Flow Shower

Use Water Efficient Irrigation System

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

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

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

Boilers

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

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

Riverwalk Phase II Sequential

San Diego County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Enclosed Parking with Elevator	3,585.00	Space	32.27	1,434,000.00	0
Parking Lot	52.00	Space	0.47	20,800.00	0
City Park	79.75	Acre	79.75	3,473,910.00	0
Apartments High Rise	2,390.00	Dwelling Unit	38.55	2,390,000.00	6835
Strip Mall	13.10	1000sqft	0.30	13,100.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.6	**Precipitation Freq (Days)**	40
Climate Zone	13			**Operational Year**	2030
Utility Company	San Diego Gas & Electric				
CO2 Intensity (lb/MWhr)	720.49	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use -

Construction Phase - Phasing adjusted to a sequential construction phasing per contractor input.

Off-road Equipment - Defaults modified to reflect contractor recommendations.

Off-road Equipment - Defaults modified to reflect contractor recommendations.

Off-road Equipment - Defaults modified to reflect contractor recommendations.

Off-road Equipment - Defaults modified to reflect contractor recommendations.

Off-road Equipment -

Grading - Default acres graded for grading. Site prep acres graded based on Appendix A. Calc Details.

Demolition -

Trips and VMT - Data modifed to reflect construction schedule. Import haul trips assume 20 yard trucks

Architectural Coating - Rule 67 100 g/L VOC emissions for painting

Vehicle Trips - Trip rates adjusted to include total net new cumulative trips as described in TIA.

Woodstoves - Assumes 5% of units have gas fireplaces

Area Coating - SDAPCD Rule 67 requires 100 g/L VOC paint

Construction Off-road Equipment Mitigation - Assumes Tier 3 equipment and Level 3 DPF for equipment greater than 50 HP

Water Mitigation -

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	250.00	100.00
tblArchitecturalCoating	EF_Nonresidential_Interior	250.00	100.00
tblArchitecturalCoating	EF_Parking	250.00	100.00
tblArchitecturalCoating	EF_Residential_Exterior	250.00	100.00
tblArchitecturalCoating	EF_Residential_Interior	250.00	100.00
tblAreaCoating	Area_EF_Nonresidential_Exterior	250	100
tblAreaCoating	Area_EF_Nonresidential_Interior	250	100
tblAreaCoating	Area_EF_Parking	250	100

tblAreaCoating	Area_EF_Residential_Exterior	250	100
tblAreaCoating	Area_EF_Residential_Interior	250	100
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	5.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	6.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	9.00

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	1.00
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
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tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstructionPhase	NumDays	220.00	413.00
tblConstructionPhase	NumDays	3,100.00	950.00
tblConstructionPhase	NumDays	200.00	30.00
tblConstructionPhase	NumDays	310.00	263.00
tblConstructionPhase	NumDays	220.00	60.00
tblConstructionPhase	NumDays	120.00	60.00
tblConstructionPhase	PhaseEndDate	12/25/2041	12/31/2030

tblConstructionPhase	PhaseEndDate	4/18/2040	9/4/2030
tblConstructionPhase	PhaseEndDate	10/7/2026	2/11/2026
tblConstructionPhase	PhaseEndDate	5/31/2028	5/10/2027
tblConstructionPhase	PhaseEndDate	2/20/2041	11/27/2030
tblConstructionPhase	PhaseEndDate	3/24/2027	5/6/2026
tblConstructionPhase	PhaseStartDate	2/21/2041	6/1/2029
tblConstructionPhase	PhaseStartDate	6/1/2028	1/14/2027
tblConstructionPhase	PhaseStartDate	3/25/2027	5/7/2026
tblConstructionPhase	PhaseStartDate	4/19/2040	9/5/2030
tblConstructionPhase	PhaseStartDate	10/8/2026	2/12/2026
tblFireplaces	NumberGas	1,314.50	120.00
tblFireplaces	NumberWood	836.50	0.00
tblGrading	AcresOfGrading	0.00	180.00
tblGrading	MaterialImported	0.00	150,000.00
tblGrading	MaterialImported	0.00	150,000.00
tblOffRoadEquipment	HorsePower	16.00	84.00
tblOffRoadEquipment	LoadFactor	0.50	0.50
tblOffRoadEquipment	LoadFactor	0.50	0.50
tblOffRoadEquipment	OffRoadEquipmentType		Bore/Drill Rigs
tblOffRoadEquipment	OffRoadEquipmentType		Bore/Drill Rigs
tblOffRoadEquipment	OffRoadEquipmentType		Dumpers/Tenders
tblTripsAndVMT	HaulingTripNumber	45.00	40.00
tblTripsAndVMT	HaulingTripNumber	18,750.00	15,000.00
tblTripsAndVMT	HaulingTripNumber	18,750.00	15,000.00
tblTripsAndVMT	WorkerTripNumber	20.00	18.00
tblTripsAndVMT	WorkerTripNumber	23.00	20.00
tblVehicleTrips	ST_TR	4.98	5.60

tblVehicleTrips	ST_TR	22.75	0.00
tblVehicleTrips	ST_TR	42.04	0.00
tblVehicleTrips	SU_TR	3.65	5.60
tblVehicleTrips	SU_TR	16.74	0.00
tblVehicleTrips	SU_TR	20.43	0.00
tblVehicleTrips	WD_TR	4.20	5.60
tblVehicleTrips	WD_TR	1.89	0.00
tblVehicleTrips	WD_TR	44.32	0.00
tblWoodstoves	NumberCatalytic	119.50	0.00
tblWoodstoves	NumberNoncatalytic	119.50	0.00

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2026	3.9230	64.5971	35.5268	0.2267	26.1152	1.2187	27.3339	11.5638	1.1237	12.6875	0.0000	24,492.9043	24,492.9043	3.2900	0.0000	24,575.1541
2027	16.6088	132.1097	137.9342	0.6560	49.7005	2.0052	51.7056	14.6138	1.8593	16.4731	0.0000	67,931.2701	67,931.2701	5.6963	0.0000	68,073.6784
2028	12.6705	92.7004	102.0738	0.5338	38.3846	0.7811	39.1656	10.3445	0.7325	11.0769	0.0000	55,511.0925	55,511.0925	2.9951	0.0000	55,585.9697
2029	87.7463	93.5455	112.5485	0.5752	44.6195	0.8499	45.4695	11.9983	0.7999	12.7982	0.0000	59,642.5372	59,642.5372	3.0687	0.0000	59,719.2534
2030	86.9565	87.5971	108.7672	0.5710	44.6195	0.4244	45.0439	11.9983	0.4068	12.4051	0.0000	59,187.3388	59,187.3388	2.5381	0.0000	59,250.7922
Maximum	**87.7463**	**132.1097**	**137.9342**	**0.6560**	**49.7005**	**2.0052**	**51.7056**	**14.6138**	**1.8593**	**16.4731**	**0.0000**	**67,931.2701**	**67,931.2701**	**5.6963**	**0.0000**	**68,073.6784**

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					
2026	2.4061	61.0982	45.6659	0.2267	14.2358	0.2381	14.4739	5.8837	0.2369	6.1188	0.0000	24,492.9043	24,492.9043	3.2900	0.0000	24,575.1541
2027	14.6758	138.2224	153.3156	0.6560	44.8861	0.6670	45.5531	12.6291	0.6479	13.2769	0.0000	67,931.2701	67,931.2701	5.6963	0.0000	68,073.6784
2028	12.0909	94.1085	104.0177	0.5338	38.3846	0.4146	38.7991	10.3445	0.3973	10.7418	0.0000	55,511.0925	55,511.0925	2.9951	0.0000	55,585.9697
2029	87.0553	95.1651	114.5157	0.5752	44.6195	0.4462	45.0658	11.9983	0.4275	12.4257	0.0000	59,642.5372	59,642.5372	3.0687	0.0000	59,719.2534
2030	86.3080	93.8939	110.6234	0.5710	44.6195	0.4069	45.0264	11.9983	0.3892	12.3875	0.0000	59,187.3388	59,187.3388	2.5381	0.0000	59,250.7922
Maximum	**87.0553**	**138.2224**	**153.3156**	**0.6560**	**44.8861**	**0.6670**	**45.5531**	**12.6291**	**0.6479**	**13.2769**	**0.0000**	**67,931.2701**	**67,931.2701**	**5.6963**	**0.0000**	**68,073.6784**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**2.58**	**-2.54**	**-6.30**	**0.00**	**8.21**	**58.84**	**9.49**	**12.67**	**57.36**	**16.03**	**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	66.6089	4.2611	197.8829	0.0232		1.2558	1.2558		1.2558	1.2558	0.0000	2,897.0328	2,897.0328	0.3891	0.0466	2,920.6429
Energy	0.5254	4.4906	1.9142	0.0287		0.3630	0.3630		0.3630	0.3630		5,732.1198	5,732.1198	0.1099	0.1051	5,766.1829
Mobile	15.1107	60.5295	177.9869	0.7379	80.9220	0.4592	81.3812	21.6188	0.4267	22.0454		75,567.9631	75,567.9631	3.5157		75,655.8547
Total	**82.2450**	**69.2812**	**377.7840**	**0.7897**	**80.9220**	**2.0780**	**83.0000**	**21.6188**	**2.0454**	**23.6642**	**0.0000**	**84,197.1156**	**84,197.1156**	**4.0146**	**0.1517**	**84,342.6805**

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	66.6089	4.2611	197.8829	0.0232		1.2558	1.2558		1.2558	1.2558	0.0000	2,897.0328	2,897.0328	0.3891	0.0466	2,920.6429
Energy	0.5254	4.4906	1.9142	0.0287		0.3630	0.3630		0.3630	0.3630		5,732.1198	5,732.1198	0.1099	0.1051	5,766.1829
Mobile	15.1107	60.5295	177.9869	0.7379	80.9220	0.4592	81.3812	21.6188	0.4267	22.0454		75,567.9631	75,567.9631	3.5157		75,655.8547
Total	**82.2450**	**69.2812**	**377.7840**	**0.7897**	**80.9220**	**2.0780**	**83.0000**	**21.6188**	**2.0454**	**23.6642**	**0.0000**	**84,197.1156**	**84,197.1156**	**4.0146**	**0.1517**	**84,342.6805**

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

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	1/1/2026	2/11/2026	5	30	
2	Site Preparation	Site Preparation	2/12/2026	5/6/2026	5	60	
3	Grading	Grading	5/7/2026	5/10/2027	5	263	
4	Building Construction	Building Construction	1/14/2027	9/4/2030	5	950	
5	Paving	Paving	9/5/2030	11/27/2030	5	60	
6	Architectural Coating	Architectural Coating	6/1/2029	12/31/2030	5	413	

Acres of Grading (Site Preparation Phase): 180

Acres of Grading (Grading Phase): 657.5

Acres of Paving: 32.74

Residential Indoor: 4,839,750; Residential Outdoor: 1,613,250; Non-Residential Indoor: 19,650; Non-Residential Outdoor: 6,550; Striped Parking Area: 87,288 (Architectural Coating – sqft)

OffRoad Equipment

Riverwalk Phase II Sequential - San Diego County, Summer

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	1	6.00	78	0.48
Demolition	Excavators	3	8.00	158	0.38
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Grading	Excavators	2	8.00	158	0.38
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Paving	Pavers	2	8.00	130	0.42
Paving	Rollers	2	8.00	80	0.38
Demolition	Rubber Tired Dozers	2	8.00	247	0.40
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Grading	Graders	1	8.00	187	0.41
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Paving	Paving Equipment	2	8.00	132	0.36
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
Building Construction	Welders	1	8.00	46	0.45
Site Preparation	Bore/Drill Rigs	1	8.00	221	0.50
Grading	Bore/Drill Rigs	1	8.00	221	0.50
Building Construction	Dumpers/Tenders	1	8.00	84	0.38

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	6	15.00	0.00	40.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	8	18.00	0.00	15,000.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	9	20.00	0.00	15,000.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	10	3,795.00	1,065.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	759.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Use DPF for Construction Equipment

Water Exposed Area

3.2 Demolition - 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					
Fugitive Dust					0.3322	0.0000	0.3322	0.0503	0.0000	0.0503			0.0000			0.0000
Off-Road	2.0926	19.1966	19.4184	0.0388		0.8528	0.8528		0.7920	0.7920		3,747.5996	3,747.5996	1.0464		3,773.7606
Total	**2.0926**	**19.1966**	**19.4184**	**0.0388**	**0.3322**	**0.8528**	**1.1850**	**0.0503**	**0.7920**	**0.8423**		**3,747.5996**	**3,747.5996**	**1.0464**		**3,773.7606**

3.2 Demolition - 2026

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	6.3500e-003	0.1998	0.0812	9.5000e-004	0.0233	3.7000e-004	0.0237	6.3800e-003	3.5000e-004	6.7400e-003		105.3939	105.3939	9.5800e-003		105.6334
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0403	0.0221	0.2823	1.0100e-003	0.1232	7.6000e-004	0.1240	0.0327	7.0000e-004	0.0334		100.5052	100.5052	2.3200e-003		100.5630
Total	**0.0467**	**0.2219**	**0.3635**	**1.9600e-003**	**0.1465**	**1.1300e-003**	**0.1477**	**0.0391**	**1.0500e-003**	**0.0401**		**205.8991**	**205.8991**	**0.0119**		**206.1964**

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					0.1495	0.0000	0.1495	0.0226	0.0000	0.0226			0.0000			0.0000
Off-Road	0.9246	18.3130	24.6739	0.0388		0.1294	0.1294		0.1294	0.1294	0.0000	3,747.5996	3,747.5996	1.0464		3,773.7606
Total	**0.9246**	**18.3130**	**24.6739**	**0.0388**	**0.1495**	**0.1294**	**0.2789**	**0.0226**	**0.1294**	**0.1521**	**0.0000**	**3,747.5996**	**3,747.5996**	**1.0464**		**3,773.7606**

3.2 Demolition - 2026

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	6.3500e-003	0.1998	0.0812	9.5000e-004	0.0233	3.7000e-004	0.0237	6.3800e-003	3.5000e-004	6.7400e-003		105.3939	105.3939	9.5800e-003		105.6334
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0403	0.0221	0.2823	1.0100e-003	0.1232	7.6000e-004	0.1240	0.0327	7.0000e-004	0.0334		100.5052	100.5052	2.3200e-003		100.5630
Total	**0.0467**	**0.2219**	**0.3635**	**1.9600e-003**	**0.1465**	**1.1300e-003**	**0.1477**	**0.0391**	**1.0500e-003**	**0.0401**		**205.8991**	**205.8991**	**0.0119**		**206.1964**

3.3 Site Preparation - 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					
Fugitive Dust					21.5991	0.0000	21.5991	10.3274	0.0000	10.3274			0.0000			0.0000
Off-Road	2.6831	27.1086	19.9583	0.0476		1.1483	1.1483		1.0565	1.0565		4,610.9402	4,610.9402	1.4913		4,648.2220
Total	**2.6831**	**27.1086**	**19.9583**	**0.0476**	**21.5991**	**1.1483**	**22.7474**	**10.3274**	**1.0565**	**11.3839**		**4,610.9402**	**4,610.9402**	**1.4913**		**4,648.2220**

3.3 Site Preparation - 2026

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	1.1915	37.4620	15.2298	0.1778	4.3683	0.0694	4.4378	1.1972	0.0664	1.2636		19,761.3579	19,761.3579	1.7959		19,806.2565
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0484	0.0265	0.3387	1.2100e-003	0.1479	9.2000e-004	0.1488	0.0392	8.4000e-004	0.0401		120.6062	120.6062	2.7800e-003		120.6756
Total	**1.2399**	**37.4885**	**15.5685**	**0.1790**	**4.5162**	**0.0704**	**4.5865**	**1.2364**	**0.0673**	**1.3037**		**19,881.9641**	**19,881.9641**	**1.7987**		**19,926.9322**

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					9.7196	0.0000	9.7196	4.6473	0.0000	4.6473			0.0000			0.0000
Off-Road	1.1662	23.6096	28.0525	0.0476		0.1678	0.1678		0.1678	0.1678	0.0000	4,610.9402	4,610.9402	1.4913		4,648.2219
Total	**1.1662**	**23.6096**	**28.0525**	**0.0476**	**9.7196**	**0.1678**	**9.8874**	**4.6473**	**0.1678**	**4.8151**	**0.0000**	**4,610.9402**	**4,610.9402**	**1.4913**		**4,648.2219**

3.3 Site Preparation - 2026

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	1.1915	37.4620	15.2298	0.1778	4.3683	0.0694	4.4378	1.1972	0.0664	1.2636		19,761.3579	19,761.3579	1.7959		19,806.2565
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0484	0.0265	0.3387	1.2100e-003	0.1479	9.2000e-004	0.1488	0.0392	8.4000e-004	0.0401		120.6062	120.6062	2.7800e-003		120.6756
Total	**1.2399**	**37.4885**	**15.5685**	**0.1790**	**4.5162**	**0.0704**	**4.5865**	**1.2364**	**0.0673**	**1.3037**		**19,881.9641**	**19,881.9641**	**1.7987**		**19,926.9322**

3.4 Grading - 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					
Fugitive Dust					8.7535	0.0000	8.7535	3.6086	0.0000	3.6086			0.0000			0.0000
Off-Road	3.1116	29.8176	28.3776	0.0716		1.1924	1.1924		1.0970	1.0970		6,930.1179	6,930.1179	2.2413		6,986.1514
Total	**3.1116**	**29.8176**	**28.3776**	**0.0716**	**8.7535**	**1.1924**	**9.9459**	**3.6086**	**1.0970**	**4.7057**		**6,930.1179**	**6,930.1179**	**2.2413**		**6,986.1514**

3.4 Grading - 2026

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	0.2718	8.5465	3.4745	0.0406	1.4023	0.0158	1.4181	0.3727	0.0152	0.3879		4,508.2946	4,508.2946	0.4097		4,518.5376
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0537	0.0295	0.3764	1.3400e-003	0.1643	1.0200e-003	0.1653	0.0436	9.4000e-004	0.0445		134.0069	134.0069	3.0900e-003		134.0841
Total	**0.3256**	**8.5759**	**3.8509**	**0.0419**	**1.5666**	**0.0169**	**1.5834**	**0.4163**	**0.0161**	**0.4324**		**4,642.3015**	**4,642.3015**	**0.4128**		**4,652.6217**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					3.9391	0.0000	3.9391	1.6239	0.0000	1.6239			0.0000			0.0000
Off-Road	1.7581	34.5222	41.8150	0.0716		0.2208	0.2208		0.2208	0.2208	0.0000	6,930.1179	6,930.1179	2.2413		6,986.1514
Total	**1.7581**	**34.5222**	**41.8150**	**0.0716**	**3.9391**	**0.2208**	**4.1598**	**1.6239**	**0.2208**	**1.8447**	**0.0000**	**6,930.1179**	**6,930.1179**	**2.2413**		**6,986.1514**

3.4 Grading - 2026

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	0.2718	8.5465	3.4745	0.0406	1.4023	0.0158	1.4181	0.3727	0.0152	0.3879		4,508.2946	4,508.2946	0.4097		4,518.5376
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0537	0.0295	0.3764	1.3400e-003	0.1643	1.0200e-003	0.1653	0.0436	9.4000e-004	0.0445		134.0069	134.0069	3.0900e-003		134.0841
Total	**0.3256**	**8.5759**	**3.8509**	**0.0419**	**1.5666**	**0.0169**	**1.5834**	**0.4163**	**0.0161**	**0.4324**		**4,642.3015**	**4,642.3015**	**0.4128**		**4,652.6217**

3.4 Grading - 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					
Fugitive Dust					8.7535	0.0000	8.7535	3.6086	0.0000	3.6086			0.0000			0.0000
Off-Road	3.1116	29.8176	28.3776	0.0716		1.1924	1.1924		1.0970	1.0970		6,930.1179	6,930.1179	2.2413		6,986.1514
Total	**3.1116**	**29.8176**	**28.3776**	**0.0716**	**8.7535**	**1.1924**	**9.9459**	**3.6086**	**1.0970**	**4.7057**		**6,930.1179**	**6,930.1179**	**2.2413**		**6,986.1514**

3.4 Grading - 2027

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	0.2683	8.3468	3.5095	0.0403	2.3981	0.0155	2.4136	0.6171	0.0148	0.6320		4,482.4755	4,482.4755	0.4111		4,492.7530
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0514	0.0275	0.3553	1.3000e-003	0.1643	9.6000e-004	0.1653	0.0436	8.9000e-004	0.0445		129.5201	129.5201	2.8900e-003		129.5924
Total	**0.3197**	**8.3743**	**3.8648**	**0.0416**	**2.5624**	**0.0165**	**2.5789**	**0.6607**	**0.0157**	**0.6765**		**4,611.9956**	**4,611.9956**	**0.4140**		**4,622.3455**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					3.9391	0.0000	3.9391	1.6239	0.0000	1.6239			0.0000			0.0000
Off-Road	1.7581	34.5222	41.8150	0.0716		0.2208	0.2208		0.2208	0.2208	0.0000	6,930.1179	6,930.1179	2.2413		6,986.1514
Total	**1.7581**	**34.5222**	**41.8150**	**0.0716**	**3.9391**	**0.2208**	**4.1598**	**1.6239**	**0.2208**	**1.8447**	**0.0000**	**6,930.1179**	**6,930.1179**	**2.2413**		**6,986.1514**

3.4 Grading - 2027

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	0.2683	8.3468	3.5095	0.0403	2.3981	0.0155	2.4136	0.6171	0.0148	0.6320		4,482.4755	4,482.4755	0.4111		4,492.7530
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0514	0.0275	0.3553	1.3000e-003	0.1643	9.6000e-004	0.1653	0.0436	8.9000e-004	0.0445		129.5201	129.5201	2.8900e-003		129.5924
Total	**0.3197**	**8.3743**	**3.8648**	**0.0416**	**2.5624**	**0.0165**	**2.5789**	**0.6607**	**0.0157**	**0.6765**		**4,611.9956**	**4,611.9956**	**0.4140**		**4,622.3455**

3.5 Building Construction - 2027

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963		2,556.4744	2,556.4744	0.6010		2,571.4981
Total	**1.3674**	**12.4697**	**16.0847**	**0.0270**		**0.5276**	**0.5276**		**0.4963**	**0.4963**		**2,556.4744**	**2,556.4744**	**0.6010**		**2,571.4981**

3.5 Building Construction - 2027

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	2.0611	76.2311	22.1956	0.2695	7.2095	0.0857	7.2953	2.0754	0.0819	2.1573		29,256.2366	29,256.2366	1.8913		29,303.5191
Worker	9.7491	5.2170	67.4116	0.2464	31.1750	0.1829	31.3580	8.2691	0.1683	8.4374		24,576.4457	24,576.4457	0.5488		24,590.1644
Total	**11.8101**	**81.4481**	**89.6072**	**0.5158**	**38.3846**	**0.2687**	**38.6532**	**10.3445**	**0.2503**	**10.5947**		**53,832.6823**	**53,832.6823**	**2.4401**		**53,893.6835**

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	0.7878	13.8778	18.0286	0.0270		0.1611	0.1611		0.1611	0.1611	0.0000	2,556.4744	2,556.4744	0.6010		2,571.4981
Total	**0.7878**	**13.8778**	**18.0286**	**0.0270**		**0.1611**	**0.1611**		**0.1611**	**0.1611**	**0.0000**	**2,556.4744**	**2,556.4744**	**0.6010**		**2,571.4981**

3.5 Building Construction - 2027

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	2.0611	76.2311	22.1956	0.2695	7.2095	0.0857	7.2953	2.0754	0.0819	2.1573		29,256.2366	29,256.2366	1.8913		29,303.5191
Worker	9.7491	5.2170	67.4116	0.2464	31.1750	0.1829	31.3580	8.2691	0.1683	8.4374		24,576.4457	24,576.4457	0.5488		24,590.1644
Total	**11.8101**	**81.4481**	**89.6072**	**0.5158**	**38.3846**	**0.2687**	**38.6532**	**10.3445**	**0.2503**	**10.5947**		**53,832.6823**	**53,832.6823**	**2.4401**		**53,893.6835**

3.5 Building Construction - 2028

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963		2,556.4744	2,556.4744	0.6010		2,571.4981
Total	**1.3674**	**12.4697**	**16.0847**	**0.0270**		**0.5276**	**0.5276**		**0.4963**	**0.4963**		**2,556.4744**	**2,556.4744**	**0.6010**		**2,571.4981**

3.5 Building Construction - 2028

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	2.0248	75.3420	22.0629	0.2680	7.2095	0.0841	7.2936	2.0754	0.0803	2.1557		29,124.8112	29,124.8112	1.8768		29,171.7314
Worker	9.2783	4.8887	63.9263	0.2389	31.1750	0.1694	31.3445	8.2691	0.1559	8.4249		23,829.8070	23,829.8070	0.5173		23,842.7402
Total	**11.3031**	**80.2307**	**85.9891**	**0.5068**	**38.3846**	**0.2535**	**38.6380**	**10.3445**	**0.2362**	**10.5807**		**52,954.6181**	**52,954.6181**	**2.3941**		**53,014.4716**

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	0.7878	13.8778	18.0286	0.0270		0.1611	0.1611		0.1611	0.1611	0.0000	2,556.4744	2,556.4744	0.6010		2,571.4981
Total	**0.7878**	**13.8778**	**18.0286**	**0.0270**		**0.1611**	**0.1611**		**0.1611**	**0.1611**	**0.0000**	**2,556.4744**	**2,556.4744**	**0.6010**		**2,571.4981**

3.5 Building Construction - 2028

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	2.0248	75.3420	22.0629	0.2680	7.2095	0.0841	7.2936	2.0754	0.0803	2.1557		29,124.8112	29,124.8112	1.8768		29,171.7314
Worker	9.2783	4.8887	63.9263	0.2389	31.1750	0.1694	31.3445	8.2691	0.1559	8.4249		23,829.8070	23,829.8070	0.5173		23,842.7402
Total	**11.3031**	**80.2307**	**85.9891**	**0.5068**	**38.3846**	**0.2535**	**38.6380**	**10.3445**	**0.2362**	**10.5807**		**52,954.6181**	**52,954.6181**	**2.3941**		**53,014.4716**

3.5 Building Construction - 2029

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963		2,556.4744	2,556.4744	0.6010		2,571.4981
Total	**1.3674**	**12.4697**	**16.0847**	**0.0270**		**0.5276**	**0.5276**		**0.4963**	**0.4963**		**2,556.4744**	**2,556.4744**	**0.6010**		**2,571.4981**

3.5 Building Construction - 2029

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	1.9900	74.4262	21.9118	0.2665	7.2095	0.0821	7.2916	2.0754	0.0785	2.1539		28,996.0126	28,996.0126	1.8664		29,042.6732
Worker	8.7699	4.5868	60.6190	0.2323	31.1750	0.1573	31.3323	8.2691	0.1447	8.4138		23,173.8352	23,173.8352	0.4883		23,186.0419
Total	**10.7599**	**79.0130**	**82.5309**	**0.4988**	**38.3845**	**0.2394**	**38.6239**	**10.3445**	**0.2232**	**10.5676**		**52,169.8478**	**52,169.8478**	**2.3547**		**52,228.7151**

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	0.7878	13.8778	18.0286	0.0270		0.1611	0.1611		0.1611	0.1611	0.0000	2,556.4744	2,556.4744	0.6010		2,571.4981
Total	**0.7878**	**13.8778**	**18.0286**	**0.0270**		**0.1611**	**0.1611**		**0.1611**	**0.1611**	**0.0000**	**2,556.4744**	**2,556.4744**	**0.6010**		**2,571.4981**

3.5 Building Construction - 2029

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	1.9900	74.4262	21.9118	0.2665	7.2095	0.0821	7.2916	2.0754	0.0785	2.1539		28,996.0126	28,996.0126	1.8664		29,042.6732
Worker	8.7699	4.5868	60.6190	0.2323	31.1750	0.1573	31.3323	8.2691	0.1447	8.4138		23,173.8352	23,173.8352	0.4883		23,186.0419
Total	**10.7599**	**79.0130**	**82.5309**	**0.4988**	**38.3845**	**0.2394**	**38.6239**	**10.3445**	**0.2232**	**10.5676**		**52,169.8478**	**52,169.8478**	**2.3547**		**52,228.7151**

3.5 Building Construction - 2030

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3091	7.9346	16.1570	0.0310		0.1481	0.1481		0.1481	0.1481		2,897.5468	2,897.5468	0.1162		2,900.4529
Total	**1.3091**	**7.9346**	**16.1570**	**0.0310**		**0.1481**	**0.1481**		**0.1481**	**0.1481**		**2,897.5468**	**2,897.5468**	**0.1162**		**2,900.4529**

3.5 Building Construction - 2030

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	1.9633	73.6515	21.8347	0.2653	7.2095	0.0806	7.2900	2.0754	0.0770	2.1524		28,891.4106	28,891.4106	1.8575		28,937.8467
Worker	8.2160	4.2956	57.4815	0.2265	31.1750	0.1462	31.3212	8.2691	0.1345	8.4035		22,597.4445	22,597.4445	0.4609		22,608.9665
Total	**10.1793**	**77.9471**	**79.3162**	**0.4918**	**38.3845**	**0.2267**	**38.6112**	**10.3445**	**0.2114**	**10.5559**		**51,488.8551**	**51,488.8551**	**2.3183**		**51,546.8132**

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	0.7320	13.7306	17.9786	0.0310		0.1366	0.1366		0.1366	0.1366	0.0000	2,897.5468	2,897.5468	0.1162		2,900.4529
Total	**0.7320**	**13.7306**	**17.9786**	**0.0310**		**0.1366**	**0.1366**		**0.1366**	**0.1366**	**0.0000**	**2,897.5468**	**2,897.5468**	**0.1162**		**2,900.4529**

3.5 Building Construction - 2030

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	1.9633	73.6515	21.8347	0.2653	7.2095	0.0806	7.2900	2.0754	0.0770	2.1524		28,891.4106	28,891.4106	1.8575		28,937.8467
Worker	8.2160	4.2956	57.4815	0.2265	31.1750	0.1462	31.3212	8.2691	0.1345	8.4035		22,597.4445	22,597.4445	0.4609		22,608.9665
Total	**10.1793**	**77.9471**	**79.3162**	**0.4918**	**38.3845**	**0.2267**	**38.6112**	**10.3445**	**0.2114**	**10.5559**		**51,488.8551**	**51,488.8551**	**2.3183**		**51,546.8132**

3.6 Paving - 2030

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3845	7.1202	15.8495	0.0281		0.3306	0.3306		0.3306	0.3306		2,656.5168	2,656.5168	0.1245		2,659.6302
Paving	0.0205					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**1.4050**	**7.1202**	**15.8495**	**0.0281**		**0.3306**	**0.3306**		**0.3306**	**0.3306**		**2,656.5168**	**2,656.5168**	**0.1245**		**2,659.6302**

3.6 Paving - 2030

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	0.0325	0.0170	0.2272	9.0000e-004	0.1232	5.8000e-004	0.1238	0.0327	5.3000e-004	0.0332		89.3180	89.3180	1.8200e-003		89.3635
Total	**0.0325**	**0.0170**	**0.2272**	**9.0000e-004**	**0.1232**	**5.8000e-004**	**0.1238**	**0.0327**	**5.3000e-004**	**0.0332**		**89.3180**	**89.3180**	**1.8200e-003**		**89.3635**

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	0.5609	11.2952	17.2957	0.0281		0.0914	0.0914		0.0914	0.0914	0.0000	2,656.5168	2,656.5168	0.1245		2,659.6302
Paving	0.0205					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**0.5815**	**11.2952**	**17.2957**	**0.0281**		**0.0914**	**0.0914**		**0.0914**	**0.0914**	**0.0000**	**2,656.5168**	**2,656.5168**	**0.1245**		**2,659.6302**

3.6 Paving - 2030

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	0.0325	0.0170	0.2272	9.0000e-004	0.1232	5.8000e-004	0.1238	0.0327	5.3000e-004	0.0332		89.3180	89.3180	1.8200e-003		89.3635
Total	**0.0325**	**0.0170**	**0.2272**	**9.0000e-004**	**0.1232**	**5.8000e-004**	**0.1238**	**0.0327**	**5.3000e-004**	**0.0332**		**89.3180**	**89.3180**	**1.8200e-003**		**89.3635**

3.7 Architectural Coating - 2029

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	73.6941					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1709	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515		281.4481	281.4481	0.0154		281.8319
Total	**73.8650**	**1.1455**	**1.8091**	**2.9700e-003**		**0.0515**	**0.0515**		**0.0515**	**0.0515**		**281.4481**	**281.4481**	**0.0154**		**281.8319**

3.7 Architectural Coating - 2029

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	1.7540	0.9174	12.1238	0.0465	6.2350	0.0315	6.2665	1.6538	0.0289	1.6828		4,634.7670	4,634.7670	0.0977		4,637.2084
Total	**1.7540**	**0.9174**	**12.1238**	**0.0465**	**6.2350**	**0.0315**	**6.2665**	**1.6538**	**0.0289**	**1.6828**		**4,634.7670**	**4,634.7670**	**0.0977**		**4,637.2084**

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	73.6941					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.0594	1.3570	1.8324	2.9700e-003		0.0143	0.0143		0.0143	0.0143	0.0000	281.4481	281.4481	0.0154		281.8319
Total	**73.7536**	**1.3570**	**1.8324**	**2.9700e-003**		**0.0143**	**0.0143**		**0.0143**	**0.0143**	**0.0000**	**281.4481**	**281.4481**	**0.0154**		**281.8319**

3.7 Architectural Coating - 2029

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	1.7540	0.9174	12.1238	0.0465	6.2350	0.0315	6.2665	1.6538	0.0289	1.6828		4,634.7670	4,634.7670	0.0977		4,637.2084
Total	**1.7540**	**0.9174**	**12.1238**	**0.0465**	**6.2350**	**0.0315**	**6.2665**	**1.6538**	**0.0289**	**1.6828**		**4,634.7670**	**4,634.7670**	**0.0977**		**4,637.2084**

3.7 Architectural Coating - 2030

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	73.6941					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1308	0.8563	1.7977	2.9700e-003		0.0203	0.0203		0.0203	0.0203		281.4481	281.4481	0.0114		281.7328
Total	**73.8249**	**0.8563**	**1.7977**	**2.9700e-003**		**0.0203**	**0.0203**		**0.0203**	**0.0203**		**281.4481**	**281.4481**	**0.0114**		**281.7328**

3.7 Architectural Coating - 2030

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	1.6432	0.8591	11.4963	0.0453	6.2350	0.0292	6.2642	1.6538	0.0269	1.6807		4,519.4889	4,519.4889	0.0922		4,521.7933
Total	**1.6432**	**0.8591**	**11.4963**	**0.0453**	**6.2350**	**0.0292**	**6.2642**	**1.6538**	**0.0269**	**1.6807**		**4,519.4889**	**4,519.4889**	**0.0922**		**4,521.7933**

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	73.6941					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.0594	1.3570	1.8324	2.9700e-003		0.0143	0.0143		0.0143	0.0143	0.0000	281.4481	281.4481	0.0114		281.7328
Total	**73.7536**	**1.3570**	**1.8324**	**2.9700e-003**		**0.0143**	**0.0143**		**0.0143**	**0.0143**	**0.0000**	**281.4481**	**281.4481**	**0.0114**		**281.7328**

3.7 Architectural Coating - 2030

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	1.6432	0.8591	11.4963	0.0453	6.2350	0.0292	6.2642	1.6538	0.0269	1.6807		4,519.4889	4,519.4889	0.0922		4,521.7933
Total	**1.6432**	**0.8591**	**11.4963**	**0.0453**	**6.2350**	**0.0292**	**6.2642**	**1.6538**	**0.0269**	**1.6807**		**4,519.4889**	**4,519.4889**	**0.0922**		**4,521.7933**

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	15.1107	60.5295	177.9869	0.7379	80.9220	0.4592	81.3812	21.6188	0.4267	22.0454		75,567.9631	75,567.9631	3.5157		75,655.8547
Unmitigated	15.1107	60.5295	177.9869	0.7379	80.9220	0.4592	81.3812	21.6188	0.4267	22.0454		75,567.9631	75,567.9631	3.5157		75,655.8547

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments High Rise	13,373.00	13,373.00	13373.00	38,183,971	38,183,971
City Park	0.00	0.00	0.00		
Enclosed Parking with Elevator	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Strip Mall	0.00	0.00	0.00		
Total	13,373.00	13,373.00	13,373.00	38,183,971	38,183,971

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 High Rise	10.80	7.30	7.50	41.60	18.80	39.60	86	11	3
City Park	9.50	7.30	7.30	33.00	48.00	19.00	66	28	6
Enclosed Parking with Elevator	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Parking Lot	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Strip Mall	9.50	7.30	7.30	16.60	64.40	19.00	45	40	15

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments High Rise	0.616428	0.037185	0.177402	0.097684	0.012090	0.005279	0.017663	0.025476	0.001931	0.001677	0.005617	0.000785	0.000782
City Park	0.616428	0.037185	0.177402	0.097684	0.012090	0.005279	0.017663	0.025476	0.001931	0.001677	0.005617	0.000785	0.000782
Enclosed Parking with Elevator	0.616428	0.037185	0.177402	0.097684	0.012090	0.005279	0.017663	0.025476	0.001931	0.001677	0.005617	0.000785	0.000782
Parking Lot	0.616428	0.037185	0.177402	0.097684	0.012090	0.005279	0.017663	0.025476	0.001931	0.001677	0.005617	0.000785	0.000782
Strip Mall	0.616428	0.037185	0.177402	0.097684	0.012090	0.005279	0.017663	0.025476	0.001931	0.001677	0.005617	0.000785	0.000782

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.5254	4.4906	1.9142	0.0287		0.3630	0.3630		0.3630	0.3630		5,732.1198	5,732.1198	0.1099	0.1051	5,766.1829
NaturalGas Unmitigated	0.5254	4.4906	1.9142	0.0287		0.3630	0.3630		0.3630	0.3630		5,732.1198	5,732.1198	0.1099	0.1051	5,766.1829

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 High Rise	48643	0.5246	4.4828	1.9076	0.0286		0.3624	0.3624		0.3624	0.3624		5,722.7038	5,722.7038	0.1097	0.1049	5,756.7110
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
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
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
Strip Mall	80.0356	8.6000e-004	7.8500e-003	6.5900e-003	5.0000e-005		6.0000e-004	6.0000e-004		6.0000e-004	6.0000e-004		9.4160	9.4160	1.8000e-004	1.7000e-004	9.4719
Total		**0.5254**	**4.4906**	**1.9142**	**0.0287**		**0.3630**	**0.3630**		**0.3630**	**0.3630**		**5,732.1198**	**5,732.1198**	**0.1099**	**0.1051**	**5,766.1829**

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 High Rise	48.643	0.5246	4.4828	1.9076	0.0286		0.3624	0.3624		0.3624	0.3624		5,722.7038	5,722.7038	0.1097	0.1049	5,756.7110
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
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
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
Strip Mall	0.0800356	8.6000e-004	7.8500e-003	6.5900e-003	5.0000e-005		6.0000e-004	6.0000e-004		6.0000e-004	6.0000e-004		9.4160	9.4160	1.8000e-004	1.7000e-004	9.4719
Total		**0.5254**	**4.4906**	**1.9142**	**0.0287**		**0.3630**	**0.3630**		**0.3630**	**0.3630**		**5,732.1198**	**5,732.1198**	**0.1099**	**0.1051**	**5,766.1829**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	66.6089	4.2611	197.8829	0.0232		1.2558	1.2558		1.2558	1.2558	0.0000	2,897.0328	2,897.0328	0.3891	0.0466	2,920.6429
Unmitigated	66.6089	4.2611	197.8829	0.0232		1.2558	1.2558		1.2558	1.2558	0.0000	2,897.0328	2,897.0328	0.3891	0.0466	2,920.6429

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	8.3385					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	52.1206					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.2329	1.9906	0.8471	0.0127		0.1609	0.1609		0.1609	0.1609	0.0000	2,541.1765	2,541.1765	0.0487	0.0466	2,556.2774
Landscaping	5.9168	2.2705	197.0359	0.0104		1.0948	1.0948		1.0948	1.0948		355.8563	355.8563	0.3404		364.3655
Total	**66.6089**	**4.2611**	**197.8829**	**0.0232**		**1.2558**	**1.2558**		**1.2558**	**1.2558**	**0.0000**	**2,897.0328**	**2,897.0328**	**0.3891**	**0.0466**	**2,920.6429**

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	8.3385					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	52.1206					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.2329	1.9906	0.8471	0.0127		0.1609	0.1609		0.1609	0.1609	0.0000	2,541.1765	2,541.1765	0.0487	0.0466	2,556.2774
Landscaping	5.9168	2.2705	197.0359	0.0104		1.0948	1.0948		1.0948	1.0948		355.8563	355.8563	0.3404		364.3655
Total	**66.6089**	**4.2611**	**197.8829**	**0.0232**		**1.2558**	**1.2558**		**1.2558**	**1.2558**	**0.0000**	**2,897.0328**	**2,897.0328**	**0.3891**	**0.0466**	**2,920.6429**

7.0 Water Detail

7.1 Mitigation Measures Water

Apply Water Conservation Strategy

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

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

10.0 Stationary Equipment

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

Riverwalk Phase III Sequential

San Diego County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	935.00	1000sqft	21.46	935,000.00	0
Enclosed Parking with Elevator	3,086.00	Space	27.77	1,234,400.00	0
Parking Lot	94.00	Space	0.85	37,600.00	0
City Park	2.20	Acre	2.20	95,832.00	0
Strip Mall	28.60	1000sqft	0.66	28,600.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.6	**Precipitation Freq (Days)**	40
Climate Zone	13			**Operational Year**	2035
Utility Company	San Diego Gas & Electric				
CO2 Intensity (lb/MWhr)	720.49	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use -

Construction Phase - Construction phasing adjusted to reflect applicant's construction schedule.

Off-road Equipment - Defaults modified to reflect contractor recommendations.

Off-road Equipment - Defaults modified to reflect contractor recommendations.

Off-road Equipment - Defaults modified to reflect contractor recommendations.

Off-road Equipment - Defaults modified to reflect contractor recommendations.

Off-road Equipment -

Off-road Equipment -

Grading - Acres graded based on Appendix A. Calc Details.

Demolition -

Trips and VMT - Data modifed to reflect construction schedule. Import haul trips assume 20 yard trucks

Architectural Coating - Rule 67 100 g/L VOC emissions for painting

Vehicle Trips - Trip rates adjusted to include total net new cumulative trips as described in TIA.

Area Coating - SDAPCD Rule 67 requires 100 g/L VOC paint

Construction Off-road Equipment Mitigation - Assumes Tier 3 equipment and Level 3 DPF for equipment greater than 50 HP and watering twice per day

Water Mitigation -

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	250.00	100.00
tblArchitecturalCoating	EF_Nonresidential_Interior	250.00	100.00
tblArchitecturalCoating	EF_Parking	250.00	100.00
tblArchitecturalCoating	EF_Residential_Exterior	250.00	100.00
tblArchitecturalCoating	EF_Residential_Interior	250.00	100.00
tblAreaCoating	Area_EF_Nonresidential_Exterior	250	100
tblAreaCoating	Area_EF_Nonresidential_Interior	250	100
tblAreaCoating	Area_EF_Parking	250	100

tblAreaCoating	Area_EF_Residential_Exterior	250	100
tblAreaCoating	Area_EF_Residential_Interior	250	100
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
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tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
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tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
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tblConstructionPhase	NumDays	1,110.00	950.00
tblConstructionPhase	PhaseEndDate	9/3/2036	8/31/2035
tblConstructionPhase	PhaseEndDate	2/6/2036	6/27/2035

tblConstructionPhase	PhaseEndDate	5/21/2036	10/10/2035
tblConstructionPhase	PhaseStartDate	5/22/2036	6/1/2034
tblConstructionPhase	PhaseStartDate	2/7/2036	6/28/2035
tblGrading	AcresOfGrading	330.00	495.00
tblGrading	AcresOfGrading	0.00	40.00
tblGrading	MaterialImported	0.00	131,950.00
tblGrading	MaterialImported	0.00	46,650.00
tblOffRoadEquipment	LoadFactor	0.50	0.50
tblOffRoadEquipment	LoadFactor	0.36	0.36
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tblOffRoadEquipment	LoadFactor	0.38	0.38
tblOffRoadEquipment	LoadFactor	0.44	0.44
tblOffRoadEquipment	LoadFactor	0.50	0.50
tblOffRoadEquipment	OffRoadEquipmentType		Bore/Drill Rigs
tblOffRoadEquipment	OffRoadEquipmentType		Dumpers/Tenders
tblOffRoadEquipment	OffRoadEquipmentType		Rubber Tired Loaders
tblOffRoadEquipment	OffRoadEquipmentType		Bore/Drill Rigs
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tblOffRoadEquipment	OffRoadEquipmentType		Rollers
tblOffRoadEquipment	OffRoadEquipmentType		Off-Highway Tractors
tblOffRoadEquipment	OffRoadEquipmentType		Bore/Drill Rigs
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tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	3.00

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tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	2.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblTripsAndVMT	HaulingTripNumber	136.00	55.00
tblTripsAndVMT	HaulingTripNumber	5,831.00	4,665.00
tblTripsAndVMT	HaulingTripNumber	16,494.00	13,195.00
tblTripsAndVMT	WorkerTripNumber	20.00	15.00
tblTripsAndVMT	WorkerTripNumber	13.00	20.00
tblTripsAndVMT	WorkerTripNumber	43.00	23.00
tblVehicleTrips	ST_TR	22.75	0.00
tblVehicleTrips	ST_TR	2.46	9.54
tblVehicleTrips	ST_TR	42.04	0.00
tblVehicleTrips	SU_TR	16.74	0.00
tblVehicleTrips	SU_TR	1.05	9.54
tblVehicleTrips	SU_TR	20.43	0.00
tblVehicleTrips	WD_TR	1.89	0.00
tblVehicleTrips	WD_TR	11.03	9.54
tblVehicleTrips	WD_TR	44.32	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					
2031	6.8628	43.1445	50.8935	0.2256	25.2920	1.0269	26.3189	11.0960	1.0255	12.1215	0.0000	23,396.1279	23,396.1279	1.4329	0.0000	23,431.9492
2032	4.3652	39.6508	45.6908	0.1972	9.8396	0.3116	10.1512	2.6684	0.3080	2.9764	0.0000	20,256.3917	20,256.3917	0.9373	0.0000	20,279.8231
2033	4.2554	39.4142	45.1717	0.1961	9.8396	0.3093	10.1489	2.6684	0.3058	2.9742	0.0000	20,149.9844	20,149.9844	0.9311	0.0000	20,173.2616
2034	32.9824	40.2269	48.6865	0.2080	11.2936	0.3326	11.6262	3.0541	0.3289	3.3830	0.0000	21,319.1187	21,319.1187	0.9548	0.0000	21,342.9898
2035	32.7073	38.4565	48.1032	0.2071	11.2936	0.2129	11.5065	3.0541	0.2094	3.2635	0.0000	21,231.6043	21,231.6043	0.9331	0.0000	21,254.9323
Maximum	**32.9824**	**43.1445**	**50.8935**	**0.2256**	**25.2920**	**1.0269**	**26.3189**	**11.0960**	**1.0255**	**12.1215**	**0.0000**	**23,396.1279**	**23,396.1279**	**1.4329**	**0.0000**	**23,431.9492**

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					
2031	3.6288	74.2281	78.5050	0.2256	12.6381	0.3989	13.0370	5.3367	0.3976	5.7343	0.0000	23,396.1279	23,396.1279	1.4329	0.0000	23,431.9491
2032	3.5021	49.8449	49.8254	0.1972	9.8396	0.2800	10.1196	2.6684	0.2764	2.9448	0.0000	20,256.3917	20,256.3917	0.9373	0.0000	20,279.8231
2033	3.3924	49.6083	49.3062	0.1961	9.8396	0.2776	10.1172	2.6684	0.2742	2.9426	0.0000	20,149.9844	20,149.9844	0.9311	0.0000	20,173.2616
2034	32.0480	50.9217	52.8558	0.2080	11.2936	0.2949	11.5885	3.0541	0.2912	3.3453	0.0000	21,319.1187	21,319.1187	0.9548	0.0000	21,342.9898
2035	31.9349	50.7007	52.3224	0.2071	11.2936	0.2843	11.5779	3.0541	0.2807	3.3349	0.0000	21,231.6043	21,231.6043	0.9331	0.0000	21,254.9323
Maximum	**32.0480**	**74.2281**	**78.5050**	**0.2256**	**12.6381**	**0.3989**	**13.0370**	**5.3367**	**0.3976**	**5.7343**	**0.0000**	**23,396.1279**	**23,396.1279**	**1.4329**	**0.0000**	**23,431.9491**

	ROG	NOx	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	**8.21**	**-37.04**	**-18.56**	**0.00**	**18.73**	**29.98**	**19.08**	**25.55**	**30.19**	**25.96**	**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	23.6592	3.7800e-003	0.4209	3.0000e-005		1.4900e-003	1.4900e-003		1.4900e-003	1.4900e-003		0.9073	0.9073	2.3400e-003		0.9658
Energy	0.5596	5.0877	4.2737	0.0305		0.3867	0.3867		0.3867	0.3867		6,105.2145	6,105.2145	0.1170	0.1119	6,141.4947
Mobile	7.9427	35.4614	90.2506	0.3920	45.1677	0.1939	45.3616	12.0673	0.1802	12.2475		40,288.9535	40,288.9535	1.8993		40,336.4363
Total	**32.1616**	**40.5528**	**94.9451**	**0.4226**	**45.1677**	**0.5821**	**45.7498**	**12.0673**	**0.5684**	**12.6357**		**46,395.0754**	**46,395.0754**	**2.0187**	**0.1119**	**46,478.8968**

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	23.6592	3.7800e-003	0.4209	3.0000e-005		1.4900e-003	1.4900e-003		1.4900e-003	1.4900e-003		0.9073	0.9073	2.3400e-003		0.9658
Energy	0.5596	5.0877	4.2737	0.0305		0.3867	0.3867		0.3867	0.3867		6,105.2145	6,105.2145	0.1170	0.1119	6,141.4947
Mobile	7.9427	35.4614	90.2506	0.3920	45.1677	0.1939	45.3616	12.0673	0.1802	12.2475		40,288.9535	40,288.9535	1.8993		40,336.4363
Total	**32.1616**	**40.5528**	**94.9451**	**0.4226**	**45.1677**	**0.5821**	**45.7498**	**12.0673**	**0.5684**	**12.6357**		**46,395.0754**	**46,395.0754**	**2.0187**	**0.1119**	**46,478.8968**

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

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	1/2/2031	4/9/2031	5	70	
2	Site Preparation	Site Preparation	4/10/2031	6/4/2031	5	40	
3	Grading	Grading	6/5/2031	11/5/2031	5	110	
4	Building Construction	Building Construction	11/6/2031	6/27/2035	5	950	
5	Paving	Paving	6/28/2035	10/10/2035	5	75	
6	Architectural Coating	Architectural Coating	6/1/2034	8/31/2035	5	327	

Acres of Grading (Site Preparation Phase): 40

Acres of Grading (Grading Phase): 495

Acres of Paving: 28.62

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 1,445,400; Non-Residential Outdoor: 481,800; Striped Parking Area: 76,320 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	1	6.00	78	0.48
Demolition	Excavators	2	8.00	158	0.38
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Grading	Excavators	3	8.00	158	0.38

Building Construction	Cranes	2	7.00	231	0.29
Building Construction	Forklifts	4	8.00	89	0.20
Building Construction	Generator Sets	3	8.00	84	0.74
Paving	Pavers	2	8.00	130	0.42
Paving	Rollers	2	8.00	80	0.38
Demolition	Rubber Tired Dozers	0	0.00	247	0.40
Grading	Rubber Tired Dozers	3	8.00	247	0.40
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Grading	Graders	2	8.00	187	0.41
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Paving	Paving Equipment	2	8.00	132	0.36
Site Preparation	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Site Preparation	Rubber Tired Dozers	2	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
Building Construction	Welders	1	8.00	46	0.45
Demolition	Bore/Drill Rigs	1	8.00	221	0.50
Demolition	Dumpers/Tenders	2	8.00	16	0.38
Demolition	Rubber Tired Loaders	2	8.00	203	0.36
Site Preparation	Bore/Drill Rigs	1	8.00	221	0.50
Grading	Rubber Tired Loaders	2	8.00	203	0.36
Grading	Rollers	1	8.00	80	0.38
Grading	Off-Highway Tractors	1	8.00	124	0.44
Grading	Bore/Drill Rigs	1	8.00	221	0.50

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	15.00	0.00	55.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	5	20.00	0.00	4,665.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	17	23.00	0.00	13,195.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	13	883.00	382.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	177.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Use DPF for Construction Equipment

Water Exposed Area

3.2 Demolition - 2031

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					0.4271	0.0000	0.4271	0.0647	0.0000	0.0647			0.0000			0.0000
Off-Road	1.6213	6.0130	16.2267	0.0478		0.1974	0.1974		0.1974	0.1974		4,503.5025	4,503.5025	0.1413		4,507.0354
Total	**1.6213**	**6.0130**	**16.2267**	**0.0478**	**0.4271**	**0.1974**	**0.6245**	**0.0647**	**0.1974**	**0.2620**		**4,503.5025**	**4,503.5025**	**0.1413**		**4,507.0354**

3.2 Demolition - 2031

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	3.5700e-003	0.1070	0.0501	5.4000e-004	0.0137	2.0000e-004	0.0139	3.7600e-003	1.9000e-004	3.9500e-003		60.7247	60.7247	5.7300e-003		60.8679
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0302	0.0159	0.2155	8.8000e-004	0.1232	5.4000e-004	0.1238	0.0327	4.9000e-004	0.0332		87.3255	87.3255	1.7200e-003		87.3686
Total	**0.0337**	**0.1229**	**0.2655**	**1.4200e-003**	**0.1370**	**7.4000e-004**	**0.1377**	**0.0364**	**6.8000e-004**	**0.0371**		**148.0502**	**148.0502**	**7.4500e-003**		**148.2364**

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					0.1922	0.0000	0.1922	0.0291	0.0000	0.0291			0.0000			0.0000
Off-Road	1.0721	19.2544	24.0248	0.0478		0.1602	0.1602		0.1602	0.1602	0.0000	4,503.5025	4,503.5025	0.1413		4,507.0354
Total	**1.0721**	**19.2544**	**24.0248**	**0.0478**	**0.1922**	**0.1602**	**0.3524**	**0.0291**	**0.1602**	**0.1893**	**0.0000**	**4,503.5025**	**4,503.5025**	**0.1413**		**4,507.0354**

3.2 Demolition - 2031

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	3.5700e-003	0.1070	0.0501	5.4000e-004	0.0137	2.0000e-004	0.0139	3.7600e-003	1.9000e-004	3.9500e-003		60.7247	60.7247	5.7300e-003		60.8679
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0302	0.0159	0.2155	8.8000e-004	0.1232	5.4000e-004	0.1238	0.0327	4.9000e-004	0.0332		87.3255	87.3255	1.7200e-003		87.3686
Total	**0.0337**	**0.1229**	**0.2655**	**1.4200e-003**	**0.1370**	**7.4000e-004**	**0.1377**	**0.0364**	**6.8000e-004**	**0.0371**		**148.0502**	**148.0502**	**7.4500e-003**		**148.2364**

3.3 Site Preparation - 2031

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					13.2686	0.0000	13.2686	6.7598	0.0000	6.7598			0.0000			0.0000
Off-Road	1.7606	8.9633	11.3249	0.0403		0.2980	0.2980		0.2980	0.2980		3,813.1049	3,813.1049	0.1565		3,817.0169
Total	**1.7606**	**8.9633**	**11.3249**	**0.0403**	**13.2686**	**0.2980**	**13.5666**	**6.7598**	**0.2980**	**7.0578**		**3,813.1049**	**3,813.1049**	**0.1565**		**3,817.0169**

3.3 Site Preparation - 2031

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	0.5293	15.8784	7.4338	0.0805	2.0378	0.0294	2.0672	0.5585	0.0281	0.5866		9,013.4728	9,013.4728	0.8502		9,034.7268
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0402	0.0212	0.2873	1.1700e-003	0.1643	7.2000e-004	0.1650	0.0436	6.6000e-004	0.0442		116.4340	116.4340	2.3000e-003		116.4914
Total	**0.5695**	**15.8996**	**7.7211**	**0.0817**	**2.2021**	**0.0301**	**2.2322**	**0.6021**	**0.0288**	**0.6309**		**9,129.9068**	**9,129.9068**	**0.8525**		**9,151.2182**

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					5.9709	0.0000	5.9709	3.0419	0.0000	3.0419			0.0000			0.0000
Off-Road	0.8052	16.0982	18.8378	0.0403		0.1083	0.1083		0.1083	0.1083	0.0000	3,813.1049	3,813.1049	0.1565		3,817.0169
Total	**0.8052**	**16.0982**	**18.8378**	**0.0403**	**5.9709**	**0.1083**	**6.0792**	**3.0419**	**0.1083**	**3.1502**	**0.0000**	**3,813.1049**	**3,813.1049**	**0.1565**		**3,817.0169**

3.3 Site Preparation - 2031

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	0.5293	15.8784	7.4338	0.0805	2.0378	0.0294	2.0672	0.5585	0.0281	0.5866		9,013.4728	9,013.4728	0.8502		9,034.7268
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0402	0.0212	0.2873	1.1700e-003	0.1643	7.2000e-004	0.1650	0.0436	6.6000e-004	0.0442		116.4340	116.4340	2.3000e-003		116.4914
Total	**0.5695**	**15.8996**	**7.7211**	**0.0817**	**2.2021**	**0.0301**	**2.2322**	**0.6021**	**0.0288**	**0.6309**		**9,129.9068**	**9,129.9068**	**0.8525**		**9,151.2182**

3.4 Grading - 2031

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					23.0071	0.0000	23.0071	10.4715	0.0000	10.4715			0.0000			0.0000
Off-Road	6.2721	26.7885	42.9171	0.1415		0.9958	0.9958		0.9958	0.9958		13,991.4290	13,991.4290	0.5558		14,005.3234
Total	**6.2721**	**26.7885**	**42.9171**	**0.1415**	**23.0071**	**0.9958**	**24.0029**	**10.4715**	**0.9958**	**11.4673**		**13,991.4290**	**13,991.4290**	**0.5558**		**14,005.3234**

3.4 Grading - 2031

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	0.5444	16.3317	7.6460	0.0828	2.0960	0.0303	2.1262	0.5744	0.0289	0.6034		9,270.7999	9,270.7999	0.8744		9,292.6606
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0463	0.0244	0.3304	1.3400e-003	0.1889	8.2000e-004	0.1898	0.0501	7.6000e-004	0.0509		133.8991	133.8991	2.6400e-003		133.9652
Total	**0.5906**	**16.3561**	**7.9764**	**0.0841**	**2.2849**	**0.0311**	**2.3160**	**0.6245**	**0.0297**	**0.6542**		**9,404.6990**	**9,404.6990**	**0.8771**		**9,426.6258**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					10.3532	0.0000	10.3532	4.7122	0.0000	4.7122			0.0000			0.0000
Off-Road	2.9544	57.8721	70.5286	0.1415		0.3679	0.3679		0.3679	0.3679	0.0000	13,991.4290	13,991.4290	0.5558		14,005.3234
Total	**2.9544**	**57.8721**	**70.5286**	**0.1415**	**10.3532**	**0.3679**	**10.7210**	**4.7122**	**0.3679**	**5.0800**	**0.0000**	**13,991.4290**	**13,991.4290**	**0.5558**		**14,005.3234**

3.4 Grading - 2031

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	0.5444	16.3317	7.6460	0.0828	2.0960	0.0303	2.1262	0.5744	0.0289	0.6034		9,270.7999	9,270.7999	0.8744		9,292.6606
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0463	0.0244	0.3304	1.3400e-003	0.1889	8.2000e-004	0.1898	0.0501	7.6000e-004	0.0509		133.8991	133.8991	2.6400e-003		133.9652
Total	**0.5906**	**16.3561**	**7.9764**	**0.0841**	**2.2849**	**0.0311**	**2.3160**	**0.6245**	**0.0297**	**0.6542**		**9,404.6990**	**9,404.6990**	**0.8771**		**9,426.6258**

3.5 Building Construction - 2031

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.0198	12.8030	25.8062	0.0522		0.2541	0.2541		0.2541	0.2541		4,909.5420	4,909.5420	0.1799		4,914.0383
Total	**2.0198**	**12.8030**	**25.8062**	**0.0522**		**0.2541**	**0.2541**		**0.2541**	**0.2541**		**4,909.5420**	**4,909.5420**	**0.1799**		**4,914.0383**

3.5 Building Construction - 2031

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	0.6965	26.1779	7.8081	0.0948	2.5859	0.0284	2.6144	0.7444	0.0272	0.7716		10,331.4113	10,331.4113	0.6632		10,347.9907
Worker	1.7755	0.9363	12.6826	0.0515	7.2536	0.0316	7.2853	1.9240	0.0291	1.9531		5,140.5601	5,140.5601	0.1015		5,143.0972
Total	**2.4720**	**27.1142**	**20.4907**	**0.1463**	**9.8396**	**0.0601**	**9.8996**	**2.6684**	**0.0563**	**2.7247**		**15,471.9714**	**15,471.9714**	**0.7647**		**15,491.0879**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.1568	22.9971	29.9408	0.0522		0.2225	0.2225		0.2225	0.2225	0.0000	4,909.5420	4,909.5420	0.1799		4,914.0383
Total	**1.1568**	**22.9971**	**29.9408**	**0.0522**		**0.2225**	**0.2225**		**0.2225**	**0.2225**	**0.0000**	**4,909.5420**	**4,909.5420**	**0.1799**		**4,914.0383**

3.5 Building Construction - 2031

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	0.6965	26.1779	7.8081	0.0948	2.5859	0.0284	2.6144	0.7444	0.0272	0.7716		10,331.4113	10,331.4113	0.6632		10,347.9907
Worker	1.7755	0.9363	12.6826	0.0515	7.2536	0.0316	7.2853	1.9240	0.0291	1.9531		5,140.5601	5,140.5601	0.1015		5,143.0972
Total	**2.4720**	**27.1142**	**20.4907**	**0.1463**	**9.8396**	**0.0601**	**9.8996**	**2.6684**	**0.0563**	**2.7247**		**15,471.9714**	**15,471.9714**	**0.7647**		**15,491.0879**

3.5 Building Construction - 2032

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.0198	12.8030	25.8062	0.0522		0.2541	0.2541		0.2541	0.2541		4,909.5420	4,909.5420	0.1799		4,914.0383
Total	**2.0198**	**12.8030**	**25.8062**	**0.0522**		**0.2541**	**0.2541**		**0.2541**	**0.2541**		**4,909.5420**	**4,909.5420**	**0.1799**		**4,914.0383**

3.5 Building Construction - 2032

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	0.6903	25.9641	7.7978	0.0946	2.5860	0.0280	2.6140	0.7444	0.0268	0.7712		10,308.0645	10,308.0645	0.6606		10,324.5805
Worker	1.6550	0.8837	12.0868	0.0505	7.2536	0.0295	7.2831	1.9240	0.0271	1.9511		5,038.7852	5,038.7852	0.0968		5,041.2043
Total	**2.3453**	**26.8478**	**19.8846**	**0.1450**	**9.8396**	**0.0575**	**9.8971**	**2.6684**	**0.0539**	**2.7223**		**15,346.8497**	**15,346.8497**	**0.7574**		**15,365.7848**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.1568	22.9971	29.9408	0.0522		0.2225	0.2225		0.2225	0.2225	0.0000	4,909.5420	4,909.5420	0.1799		4,914.0383
Total	**1.1568**	**22.9971**	**29.9408**	**0.0522**		**0.2225**	**0.2225**		**0.2225**	**0.2225**	**0.0000**	**4,909.5420**	**4,909.5420**	**0.1799**		**4,914.0383**

3.5 Building Construction - 2032

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	0.6903	25.9641	7.7978	0.0946	2.5860	0.0280	2.6140	0.7444	0.0268	0.7712		10,308.0645	10,308.0645	0.6606		10,324.5805
Worker	1.6550	0.8837	12.0868	0.0505	7.2536	0.0295	7.2831	1.9240	0.0271	1.9511		5,038.7852	5,038.7852	0.0968		5,041.2043
Total	**2.3453**	**26.8478**	**19.8846**	**0.1450**	**9.8396**	**0.0575**	**9.8971**	**2.6684**	**0.0539**	**2.7223**		**15,346.8497**	**15,346.8497**	**0.7574**		**15,365.7848**

3.5 Building Construction - 2033

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.0198	12.8030	25.8062	0.0522		0.2541	0.2541		0.2541	0.2541		4,909.5420	4,909.5420	0.1799		4,914.0383
Total	**2.0198**	**12.8030**	**25.8062**	**0.0522**		**0.2541**	**0.2541**		**0.2541**	**0.2541**		**4,909.5420**	**4,909.5420**	**0.1799**		**4,914.0383**

3.5 Building Construction - 2033

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	0.6859	25.7721	7.7934	0.0943	2.5860	0.0277	2.6136	0.7444	0.0264	0.7709		10,289.2958	10,289.2958	0.6585		10,305.7591
Worker	1.5497	0.8391	11.5721	0.0496	7.2536	0.0275	7.2811	1.9240	0.0253	1.9493		4,951.1466	4,951.1466	0.0927		4,953.4643
Total	**2.2356**	**26.6112**	**19.3655**	**0.1439**	**9.8396**	**0.0552**	**9.8948**	**2.6684**	**0.0517**	**2.7202**		**15,240.4424**	**15,240.4424**	**0.7512**		**15,259.2234**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.1568	22.9971	29.9408	0.0522		0.2225	0.2225		0.2225	0.2225	0.0000	4,909.5420	4,909.5420	0.1799		4,914.0383
Total	**1.1568**	**22.9971**	**29.9408**	**0.0522**		**0.2225**	**0.2225**		**0.2225**	**0.2225**	**0.0000**	**4,909.5420**	**4,909.5420**	**0.1799**		**4,914.0383**

3.5 Building Construction - 2033

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	0.6859	25.7721	7.7934	0.0943	2.5860	0.0277	2.6136	0.7444	0.0264	0.7709		10,289.2958	10,289.2958	0.6585		10,305.7591
Worker	1.5497	0.8391	11.5721	0.0496	7.2536	0.0275	7.2811	1.9240	0.0253	1.9493		4,951.1466	4,951.1466	0.0927		4,953.4643
Total	**2.2356**	**26.6112**	**19.3655**	**0.1439**	**9.8396**	**0.0552**	**9.8948**	**2.6684**	**0.0517**	**2.7202**		**15,240.4424**	**15,240.4424**	**0.7512**		**15,259.2234**

3.5 Building Construction - 2034

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.0198	12.8030	25.8062	0.0522		0.2541	0.2541		0.2541	0.2541		4,909.5420	4,909.5420	0.1799		4,914.0383
Total	**2.0198**	**12.8030**	**25.8062**	**0.0522**		**0.2541**	**0.2541**		**0.2541**	**0.2541**		**4,909.5420**	**4,909.5420**	**0.1799**		**4,914.0383**

3.5 Building Construction - 2034

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	0.6820	25.6055	7.7849	0.0942	2.5860	0.0273	2.6133	0.7444	0.0261	0.7705		10,275.1593	10,275.1593	0.6570		10,291.5836
Worker	1.4588	0.8015	11.0772	0.0488	7.2536	0.0257	7.2793	1.9240	0.0236	1.9476		4,875.6340	4,875.6340	0.0888		4,877.8545
Total	**2.1409**	**26.4070**	**18.8621**	**0.1430**	**9.8396**	**0.0530**	**9.8926**	**2.6684**	**0.0497**	**2.7182**		**15,150.7932**	**15,150.7932**	**0.7458**		**15,169.4381**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.1568	22.9971	29.9408	0.0522		0.2225	0.2225		0.2225	0.2225	0.0000	4,909.5420	4,909.5420	0.1799		4,914.0383
Total	**1.1568**	**22.9971**	**29.9408**	**0.0522**		**0.2225**	**0.2225**		**0.2225**	**0.2225**	**0.0000**	**4,909.5420**	**4,909.5420**	**0.1799**		**4,914.0383**

3.5 Building Construction - 2034

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	0.6820	25.6055	7.7849	0.0942	2.5860	0.0273	2.6133	0.7444	0.0261	0.7705		10,275.1593	10,275.1593	0.6570		10,291.5836
Worker	1.4588	0.8015	11.0772	0.0488	7.2536	0.0257	7.2793	1.9240	0.0236	1.9476		4,875.6340	4,875.6340	0.0888		4,877.8545
Total	**2.1409**	**26.4070**	**18.8621**	**0.1430**	**9.8396**	**0.0530**	**9.8926**	**2.6684**	**0.0497**	**2.7182**		**15,150.7932**	**15,150.7932**	**0.7458**		**15,169.4381**

3.5 Building Construction - 2035

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.8551	11.3062	25.7459	0.0522		0.1471	0.1471		0.1471	0.1471		4,909.5420	4,909.5420	0.1648		4,913.6610
Total	**1.8551**	**11.3062**	**25.7459**	**0.0522**		**0.1471**	**0.1471**		**0.1471**	**0.1471**		**4,909.5420**	**4,909.5420**	**0.1648**		**4,913.6610**

3.5 Building Construction - 2035

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	0.6786	25.4656	7.7730	0.0940	2.5860	0.0271	2.6130	0.7444	0.0259	0.7703		10,264.2268	10,264.2268	0.6555		10,280.6138
Worker	1.3805	0.7722	10.6544	0.0482	7.2536	0.0241	7.2777	1.9240	0.0221	1.9461		4,811.8398	4,811.8398	0.0854		4,813.9739
Total	**2.0591**	**26.2378**	**18.4274**	**0.1422**	**9.8396**	**0.0511**	**9.8907**	**2.6684**	**0.0480**	**2.7164**		**15,076.0666**	**15,076.0666**	**0.7409**		**15,094.5877**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.1411	22.9511	29.9269	0.0522		0.2141	0.2141		0.2141	0.2141	0.0000	4,909.5420	4,909.5420	0.1648		4,913.6610
Total	**1.1411**	**22.9511**	**29.9269**	**0.0522**		**0.2141**	**0.2141**		**0.2141**	**0.2141**	**0.0000**	**4,909.5420**	**4,909.5420**	**0.1648**		**4,913.6610**

3.5 Building Construction - 2035

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	0.6786	25.4656	7.7730	0.0940	2.5860	0.0271	2.6130	0.7444	0.0259	0.7703		10,264.2268	10,264.2268	0.6555		10,280.6138
Worker	1.3805	0.7722	10.6544	0.0482	7.2536	0.0241	7.2777	1.9240	0.0221	1.9461		4,811.8398	4,811.8398	0.0854		4,813.9739
Total	**2.0591**	**26.2378**	**18.4274**	**0.1422**	**9.8396**	**0.0511**	**9.8907**	**2.6684**	**0.0480**	**2.7164**		**15,076.0666**	**15,076.0666**	**0.7409**		**15,094.5877**

3.6 Paving - 2035

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.1405	4.8761	15.8203	0.0281		0.1874	0.1874		0.1874	0.1874		2,656.5168	2,656.5168	0.1022		2,659.0727
Paving	0.0297					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**1.1702**	**4.8761**	**15.8203**	**0.0281**		**0.1874**	**0.1874**		**0.1874**	**0.1874**		**2,656.5168**	**2,656.5168**	**0.1022**		**2,659.0727**

3.6 Paving - 2035

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0235	0.0131	0.1810	8.2000e-004	0.1232	4.1000e-004	0.1236	0.0327	3.8000e-004	0.0331		81.7413	81.7413	1.4500e-003		81.7776
Total	**0.0235**	**0.0131**	**0.1810**	**8.2000e-004**	**0.1232**	**4.1000e-004**	**0.1236**	**0.0327**	**3.8000e-004**	**0.0331**		**81.7413**	**81.7413**	**1.4500e-003**		**81.7776**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.5609	11.2952	17.2957	0.0281		0.0914	0.0914		0.0914	0.0914	0.0000	2,656.5168	2,656.5168	0.1022		2,659.0726
Paving	0.0297					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**0.5906**	**11.2952**	**17.2957**	**0.0281**		**0.0914**	**0.0914**		**0.0914**	**0.0914**	**0.0000**	**2,656.5168**	**2,656.5168**	**0.1022**		**2,659.0726**

3.6 Paving - 2035

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0235	0.0131	0.1810	8.2000e-004	0.1232	4.1000e-004	0.1236	0.0327	3.8000e-004	0.0331		81.7413	81.7413	1.4500e-003		81.7776
Total	**0.0235**	**0.0131**	**0.1810**	**8.2000e-004**	**0.1232**	**4.1000e-004**	**0.1236**	**0.0327**	**3.8000e-004**	**0.0331**		**81.7413**	**81.7413**	**1.4500e-003**		**81.7776**

3.7 Architectural Coating - 2034

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	28.3985					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1308	0.8563	1.7977	2.9700e-003		0.0203	0.0203		0.0203	0.0203		281.4481	281.4481	0.0114		281.7328
Total	**28.5293**	**0.8563**	**1.7977**	**2.9700e-003**		**0.0203**	**0.0203**		**0.0203**	**0.0203**		**281.4481**	**281.4481**	**0.0114**		**281.7328**

3.7 Architectural Coating - 2034

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	0.2924	0.1607	2.2205	9.7900e-003	1.4540	5.1500e-003	1.4592	0.3857	4.7300e-003	0.3904		977.3355	977.3355	0.0178		977.7806
Total	**0.2924**	**0.1607**	**2.2205**	**9.7900e-003**	**1.4540**	**5.1500e-003**	**1.4592**	**0.3857**	**4.7300e-003**	**0.3904**		**977.3355**	**977.3355**	**0.0178**		**977.7806**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	28.3985					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.0594	1.3570	1.8324	2.9700e-003		0.0143	0.0143		0.0143	0.0143	0.0000	281.4481	281.4481	0.0114		281.7328
Total	**28.4580**	**1.3570**	**1.8324**	**2.9700e-003**		**0.0143**	**0.0143**		**0.0143**	**0.0143**	**0.0000**	**281.4481**	**281.4481**	**0.0114**		**281.7328**

3.7 Architectural Coating - 2034

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	0.2924	0.1607	2.2205	9.7900e-003	1.4540	5.1500e-003	1.4592	0.3857	4.7300e-003	0.3904		977.3355	977.3355	0.0178		977.7806
Total	**0.2924**	**0.1607**	**2.2205**	**9.7900e-003**	**1.4540**	**5.1500e-003**	**1.4592**	**0.3857**	**4.7300e-003**	**0.3904**		**977.3355**	**977.3355**	**0.0178**		**977.7806**

3.7 Architectural Coating - 2035

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	28.3985					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1179	0.7577	1.7943	2.9700e-003		9.9000e-003	9.9000e-003		9.9000e-003	9.9000e-003		281.4481	281.4481	0.0104		281.7081
Total	**28.5164**	**0.7577**	**1.7943**	**2.9700e-003**		**9.9000e-003**	**9.9000e-003**		**9.9000e-003**	**9.9000e-003**		**281.4481**	**281.4481**	**0.0104**		**281.7081**

3.7 Architectural Coating - 2035

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	0.2767	0.1548	2.1357	9.6600e-003	1.4540	4.8200e-003	1.4588	0.3857	4.4400e-003	0.3901		964.5477	964.5477	0.0171		964.9755
Total	**0.2767**	**0.1548**	**2.1357**	**9.6600e-003**	**1.4540**	**4.8200e-003**	**1.4588**	**0.3857**	**4.4400e-003**	**0.3901**		**964.5477**	**964.5477**	**0.0171**		**964.9755**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	28.3985					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.0594	1.3570	1.8324	2.9700e-003		0.0143	0.0143		0.0143	0.0143	0.0000	281.4481	281.4481	0.0104		281.7081
Total	**28.4580**	**1.3570**	**1.8324**	**2.9700e-003**		**0.0143**	**0.0143**		**0.0143**	**0.0143**	**0.0000**	**281.4481**	**281.4481**	**0.0104**		**281.7081**

3.7 Architectural Coating - 2035

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	0.2767	0.1548	2.1357	9.6600e-003	1.4540	4.8200e-003	1.4588	0.3857	4.4400e-003	0.3901		964.5477	964.5477	0.0171		964.9755
Total	**0.2767**	**0.1548**	**2.1357**	**9.6600e-003**	**1.4540**	**4.8200e-003**	**1.4588**	**0.3857**	**4.4400e-003**	**0.3901**		**964.5477**	**964.5477**	**0.0171**		**964.9755**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	7.9427	35.4614	90.2506	0.3920	45.1677	0.1939	45.3616	12.0673	0.1802	12.2475		40,288.9535	40,288.9535	1.8993		40,336.4363
Unmitigated	7.9427	35.4614	90.2506	0.3920	45.1677	0.1939	45.3616	12.0673	0.1802	12.2475		40,288.9535	40,288.9535	1.8993		40,336.4363

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
City Park	0.00	0.00	0.00		
Enclosed Parking with Elevator	0.00	0.00	0.00		
General Office Building	8,917.00	8,917.00	8917.00	21,309,424	21,309,424
Parking Lot	0.00	0.00	0.00		
Strip Mall	0.00	0.00	0.00		
Total	8,917.00	8,917.00	8,917.00	21,309,424	21,309,424

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
City Park	9.50	7.30	7.30	33.00	48.00	19.00	66	28	6
Enclosed Parking with Elevator	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
General Office Building	9.50	7.30	7.30	33.00	48.00	19.00	77	19	4
Parking Lot	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Strip Mall	9.50	7.30	7.30	16.60	64.40	19.00	45	40	15

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
City Park	0.617626	0.036451	0.176904	0.096837	0.011340	0.005282	0.018425	0.026503	0.001944	0.001632	0.005548	0.000800	0.000709
Enclosed Parking with Elevator	0.617626	0.036451	0.176904	0.096837	0.011340	0.005282	0.018425	0.026503	0.001944	0.001632	0.005548	0.000800	0.000709
General Office Building	0.617626	0.036451	0.176904	0.096837	0.011340	0.005282	0.018425	0.026503	0.001944	0.001632	0.005548	0.000800	0.000709
Parking Lot	0.617626	0.036451	0.176904	0.096837	0.011340	0.005282	0.018425	0.026503	0.001944	0.001632	0.005548	0.000800	0.000709
Strip Mall	0.617626	0.036451	0.176904	0.096837	0.011340	0.005282	0.018425	0.026503	0.001944	0.001632	0.005548	0.000800	0.000709

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.5596	5.0877	4.2737	0.0305		0.3867	0.3867		0.3867	0.3867		6,105.2145	6,105.2145	0.1170	0.1119	6,141.4947
NaturalGas Unmitigated	0.5596	5.0877	4.2737	0.0305		0.3867	0.3867		0.3867	0.3867		6,105.2145	6,105.2145	0.1170	0.1119	6,141.4947

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
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
General Office Building	51719.6	0.5578	5.0706	4.2593	0.0304		0.3854	0.3854		0.3854	0.3854		6,084.6575	6,084.6575	0.1166	0.1116	6,120.8156
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
Strip Mall	174.734	1.8800e-003	0.0171	0.0144	1.0000e-004		1.3000e-003	1.3000e-003		1.3000e-003	1.3000e-003		20.5570	20.5570	3.9000e-004	3.8000e-004	20.6791
Total		**0.5596**	**5.0877**	**4.2737**	**0.0305**		**0.3867**	**0.3867**		**0.3867**	**0.3867**		**6,105.2145**	**6,105.2145**	**0.1170**	**0.1119**	**6,141.4947**

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					
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
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
General Office Building	51.7196	0.5578	5.0706	4.2593	0.0304		0.3854	0.3854		0.3854	0.3854		6,084.6575	6,084.6575	0.1166	0.1116	6,120.8156
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
Strip Mall	0.174734	1.8800e-003	0.0171	0.0144	1.0000e-004		1.3000e-003	1.3000e-003		1.3000e-003	1.3000e-003		20.5570	20.5570	3.9000e-004	3.8000e-004	20.6791
Total		**0.5596**	**5.0877**	**4.2737**	**0.0305**		**0.3867**	**0.3867**		**0.3867**	**0.3867**		**6,105.2145**	**6,105.2145**	**0.1170**	**0.1119**	**6,141.4947**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	23.6592	3.7800e-003	0.4209	3.0000e-005		1.4900e-003	1.4900e-003		1.4900e-003	1.4900e-003		0.9073	0.9073	2.3400e-003		0.9658
Unmitigated	23.6592	3.7800e-003	0.4209	3.0000e-005		1.4900e-003	1.4900e-003		1.4900e-003	1.4900e-003		0.9073	0.9073	2.3400e-003		0.9658

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	2.5442					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	21.0765					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0385	3.7800e-003	0.4209	3.0000e-005		1.4900e-003	1.4900e-003		1.4900e-003	1.4900e-003		0.9073	0.9073	2.3400e-003		0.9658
Total	**23.6592**	**3.7800e-003**	**0.4209**	**3.0000e-005**		**1.4900e-003**	**1.4900e-003**		**1.4900e-003**	**1.4900e-003**		**0.9073**	**0.9073**	**2.3400e-003**		**0.9658**

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	2.5442					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	21.0765					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0385	3.7800e-003	0.4209	3.0000e-005		1.4900e-003	1.4900e-003		1.4900e-003	1.4900e-003		0.9073	0.9073	2.3400e-003		0.9658
Total	**23.6592**	**3.7800e-003**	**0.4209**	**3.0000e-005**		**1.4900e-003**	**1.4900e-003**		**1.4900e-003**	**1.4900e-003**		**0.9073**	**0.9073**	**2.3400e-003**		**0.9658**

7.0 Water Detail

7.1 Mitigation Measures Water

Apply Water Conservation Strategy

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

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

10.0 Stationary Equipment

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

Appendix C

Clark Construction Letter

To: Pete Shearer, Hines

Date: August 3, 2020

RE: Air Quality Technical Report Recommendations
Riverwalk San Diego

This letter is intended to respond to the request to review the Air Quality Technical Report for the proposed Riverwalk San Diego Draft Environmental Impact Report (EIR).

There are multiple ways to schedule and sequence a construction project at the scale of Riverwalk. However, in our opinion, the better phasing for the Riverwalk project would begin in the northwestern corner of the project site, then proceed to the east on the north side of the MTS trolley tracks, before moving south across the MTS Tracks. Construction north of the MTS tracks has many advantages as compared to other areas. These advantages include better site access, existing utility tie-ins, and minimized temporary improvements. The northwest corner of the site has the best attributes for these considerations, which is why we propose phasing to begin there. Construction south of the MTS trolley tracks, which is largely within the floodway, which will require mass grading to achieve FEMA CLOMR compliance prior to building construction. Accordingly, this area would not be suggested to construct until after the areas North of the MTS tracks due to the time necessary to coordinate and permit this work. Finally, due to coordination with the FEMA CLOMR/LOMR process, construction in the South District near Hotel Circle North is suggested as the last phase of the project.

Based on this phasing plan, Clark has the following recommendations to phase the project in the most efficient manner consistent with best practices. While the construction phasing assumed in the Air Quality Technical Report (Birdseye Planning Group, May 2020) is reasonable and achievable, we would suggest the following changes be made in order to match our most likely project buildout schedule:

Phase Durations. The duration for each phase of construction (5 years) is achievable from a construction standpoint. It is unlikely that construction would occur any faster than this based on the scale of development occurring in each phase. If the project were a development planned for a single commercial user, such as a hospital of office campus, simultaneous development of more of the project may be appropriate. With Riverwalk that is not the case. Most of the development is multifamily housing, requiring individual unit leases or sales. This will effectively limit the amount of development that would reasonably occur in a single phase.

Specifically, within each phase, we have provided the following recommendations for Air Quality emission best estimates. These may vary based on various factors but are appropriate for the purpose of estimating daily construction emissions:

Phase 1

- Demolition
    - Duration: 70 days

    - Equipment List: Bore rig (1), concrete saw (1), excavators (2), rubber tired dozer (2), tractor/loader (2), other equipment (2)
    - Truck Trips: 40 haul trips
- Site Preparation
    - Duration: 60 days
    - CY of Soil Import: 200,000
    - Size of Trucks for Import: 20 CY
    - Truck Trips: 20,000
    - Equipment List: Bore rig (1), other equipment (2), rubber-tired dozer (3), tractor/loader (4)
- Grading
    - Duration: 264 days
    - CY of Soil Import: 200,000
    - Size of Trucks for import: 20 CY
    - Truck Trips: 20,000
    - Equipment List: Bore rig (1), excavator (2), grader (1), off-highway tractor (1), roller (1), rubber-tired dozer (1), scraper (4), tractor/loader (2)
- Construction
    - Duration: 1,061 days
    - Equipment List: crane (3), forklift (4), generator set (3), tractor/loader (3)
- Architectural Coatings
    - Duration: 413 days
    - Equipment List: Air Compressor (1)
- Paving
    - Duration: 43 days
    - Equipment List: pavers (2), paving equipment (2), roller (2)

Phase 2

- Demolition
    - Duration: 30 days
    - Truck Trips: 40
    - Equipment List: Concrete saw (1), excavators (3), rubber-tired dozer (2),
- Site Preparation
    - Duration: 60 days
    - CY of Soil Import: 150,000
    - Size of truck of truck for import: 20 CY
    - Truck Trips: 15,000
    - Equipment List: Bore rig (1), rubber-tired dozer (3), tractor/loader (4)
- Grading
    - Duration: 263 days
    - CY of Soil Import: 150,000
    - Size of Trucks for import: 20 CY
    - Truck Trips: 15,000
    - Equipment List: Bore rig (1), excavator (2), grader (1), rubber-tired dozer (1), scraper (2), tractor/loader (2)
- Construction
    - Duration: 950 days
    - Equipment List: crane (1), forklift (3), dumper/tender (2), generator set (1), tractor/loader (3)
- Architectural Coatings
    - Duration: 521 days

    - Equipment List: Air Compressor (1)
- Paving
    - Duration: 60
    - Equipment List: pavers (2), paving equipment (2), roller (2)

Phase 3

- Demolition
    - Duration: 70 days
    - Equipment List: Bore rig (1), Concrete saw (1), excavators (2), dumper/tender (2), rubber-tired loader (2)
    - Truck Trips: 55
- Site Preparation
    - Duration: 40 days
    - CY of Soil Import: 46,650
    - Size of Trucks for import: 20 CY
    - Truck Trips:4,665
    - Equipment List: Bore rig (1), rubber-tired dozer (2), tractor/loader (2)
- Grading
    - Duration: 110
    - CY of Soil Import: 131,950
    - Size of Trucks for import: 20 CY
    - Truck trips: 13,195
    - Equipment List: Bore rig (1), excavator (3), grader (2), off-highway tractor (1), roller (1), rubber-tired dozer (2), rubber-tired loader (2), scraper (2), tractor/loader (2)
- Construction
    - Duration: 950
    - Equipment List: crane (2), forklift (4), generator set (3), tractor/loader (3)
- Architectural Coatings
    - Duration: 327
    - Equipment List: Air Compressor (1)
- Paving
    - Duration: 75
    - Equipment List: pavers (2), paving equipment (2), roller (2)

Construction Equipment. We have provided input on the construction equipment assumed for the purpose of modeling air emissions, as shown above. Based on our experience, the equipment type and number of individual pieces of equipment used for each phase of construction are our best estimate based on past experience for similar sized projects. However, the equipment used on-site may vary over the course of the project based on site conditions, equipment availability and related factors. In Southern California, we would utilize Tier 3 certified construction equipment with level three diesel particulate filters. This should be assumed for the project.

Equipment Daily Usage. Clark recommends assuming 8 hours of use for construction equipment per day. This number is for emission modeling and is likely conservative as equipment is generally not operating the entirety of an 8-hour workday. However, because the duration of daily use varies, a more conservative estimate is appropriate for the purpose of environmental review.

Construction Schedules. Clark would be able to achieve the development phasing plan with typical construction schedules of 8-hours per day for 5 days per week. Neither overtime nor weekend work would be required to meet the schedule.

Architectural Coating. The Birdseye Planning Group Air Quality Report assumed that architectural coating (i.e., painting) of buildings would overlap into future phases of construction. The durations used in the modeling are reasonable; however, our recommendation would be to overlap the architectural coating work with building construction of the same phase as opposed to future phase. This reflects a more likely scenario where painting of buildings occurs as building construction completes, allowing buildings to be put into service as they complete construction as opposed to waiting to paint all buildings at the same time. In phased projects of this size, where multiple buildings are under construction at the same time, we would recommend staggering building construction starts by 6-8 weeks. This allows the project to be efficiently phased, where trades roll off one building and onto the next. In doing so, the first buildings in each phase would complete construction while the rest are still under construction. As buildings complete, they would be painted, which is usually one of the final trades on any building construction. Accordingly, we would recommend an architectural coating period that assumes one building is painted every 6-8 weeks, which results in a total painting duration of 14 months for Phase 1, 18 months for phase 2, and 11 months for Phase 3.

While the project proposes building materials that may not require architectural coating, such as metal and brick, our recommendation is to assume that all buildings would be painted for conservatism within the Air Quality Technical Report.

Overlapped Phasing. An option that can be implemented to improve the efficiency of the construction process and avoid remobilizing crews for various phases is to, where possible, overlap individual phases. The current phasing assumes that demolition, site preparation, grading, building construction, architectural coating (i.e., painting) and paving would occur sequentially over a five-year period for each Phase with some painting work overlapping into the first year of the subsequent Phase. To improve the efficiency of the overall construction process, we recommend that sitework (e.g. demolition, site preparation and grading) for follow-on Phases overlap with the building construction, painting and paving phases of previous Phases. For example, we would recommend that sitework for Phase II occur while building construction for Phase I is underway such that trades from buildings in Phase I can immediately move to construction of buildings Phase II. This is our recommendation from a constructability standpoint. However, sequential phasing, if desired, is achievable and commonly utilized in our experience.

Soil Import Quantities. After review of the import quantities assumed in the Birdseye Planning Group Air Quality report, we believe this analysis overestimates the most likely soil import quantities needed for this project by not taking into account subterranean garages, especially in Phase 1. Our analysis of the project's draft vesting tentative, which was used to generate soil import quantities in the Birdseye Planning Group Air Quality report, map indicates that import quantities are based upon the assumption that all structures will be constructed on-grade. This results in approximately 621,200 cubic yards of import in Phase 1; 224,100 cubic yards of import in Phase 2; and 178,600 cubic yards of import in Phase 3, for a total of 1,023,900 cubic yards of import for the project. Our recommendation would be to construct subterranean garages in many locations throughout the project, especially in the western portion of the site where the largest quantities of soil import are required. We believe this would save time and money as compared with the plan assumed in the Birdseye Planning Group Air Quality analysis. While actual total import quantities may be much lower, we have conservatively assumed

underground garages on half of the residential buildings in Phase 1, which would result in a total import quantity for Phase 1 of 400,000 cubic yards.

Separately, Phase 2 import quantities assumed in the Birdseye Planning Group Air Quality report assumed reuse of soil from within the river park grading to be utilized in development elsewhere in Phase 2. Due to the potential for grading south of the MTS tracks to occur later in Phase 2 than those areas north of the tracks, we believe a more conservative estimate is appropriate. Accordingly, we estimate soil import for phase 2 of the project at 300,000 cubic yards.

Phase 3 import quantities of 178,600 are likely conservative considering the modeling assumptions for Phase 2. However, for conservatism we would recommend continuing to use this quantity assumption.

In summary, there are several variables included in the ultimate phasing of any project of this scale. While the initial air quality model represents assumptions that are reasonable and justified, we would suggest revising your assumptions to those included in this letter to most accurately reflect the likely phasing of the Riverwalk project.

Regards,
Clark Construction Group – CA, LP

Albert Valdivia
Vice President