

# **RIVERWALK SAN DIEGO PROJECT**

## **AIR QUALITY STUDY**

**Prepared for:**

**KLR Planning  
San Diego, CA**

**Prepared by:**



**May 2020**

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## AIR QUALITY STUDY

### THE RIVERWALK PROJECT

PTS 581984

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**May 2020**

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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 a community amenity 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 report has been prepared by Birdseye Planning Group under contract to KLR Planning, at the request of the City of San Diego to support the discretionary review process. This study analyzes the potential for temporary air quality impacts associated with construction and long-term air quality impacts associated with operation of the proposed project.

Air quality modeling was performed in general accordance with the methodologies outlined in the SDAPCD 2009 RAQS 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 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; however, cumulatively, the project would exceed the daily emission thresholds for Reactive Organic Gas (ROG), Carbon Monoxide (CO) and Particulate Matter 10 (PM<sub>10</sub>). The annual standard would be exceeded for ROG, CO and PM<sub>10</sub>.

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.

The Riverwalk Specific Plan focuses future residential development in the North and Central Districts; however, residential uses could occur in any of the three planning Districts where future development is proposed, provided the overall targeted project density/intensity allowed for in the Specific Plan is not exceeded. 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 sensitive receptors (i.e., residents) in the North and Central Districts to potential increased health risk would not occur. 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 to sensitive receptors, specific measures are included in the Specific Plan that would apply to future residential development in the South District.

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. 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 would not be exposed to substantial CO pollutant concentrations.

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 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.

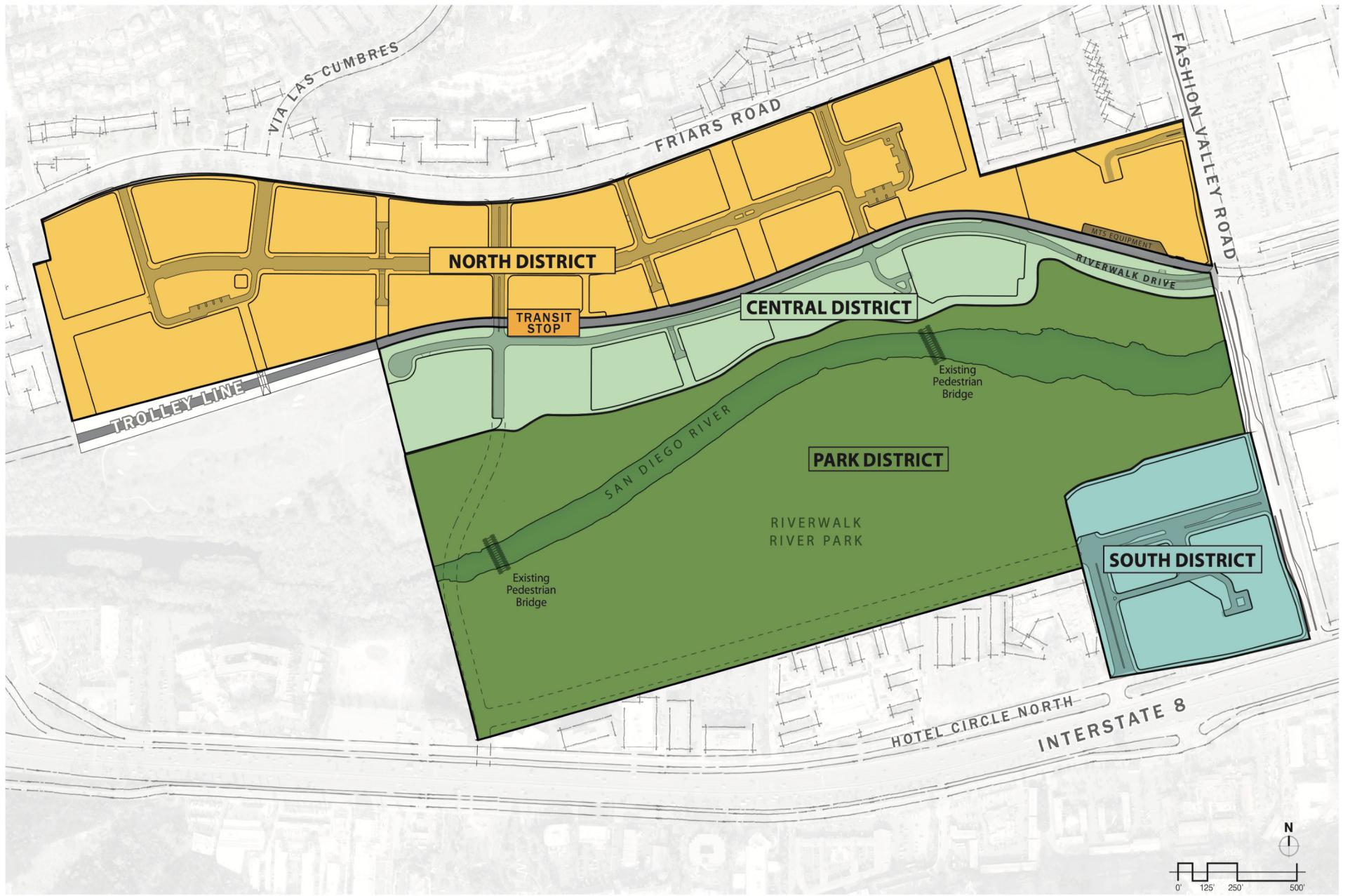
The project would establish Irrevocable Offers of Dedication (IODs) for future construction of two Community Plan Circulation Element roadways envisioned in the Mission Valley Community Plan Update: future Riverwalk Street "J," which would cross the San Diego River in a north-south direction; and future 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 (CAAQSSs). 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 <sup>1</sup>		NATIONAL STANDARDS <sup>2</sup>		
		Concentration <sup>3</sup>	Method <sup>4</sup>	Primary <sup>3, 5</sup>	Secondary <sup>3, 6</sup>	Method <sup>7</sup>
Ozone <sup>8</sup> (O <sub>3</sub> )	1 hour	0.09 ppm (180 µg/m <sup>3</sup> )	Ultraviolet Photometry	—	Same as Primary Standard	Ultraviolet Photometry
	8 hours	0.070 ppm (137 µg/m <sup>3</sup> )		0.070 ppm (137 µg/m <sup>3</sup> )		
Carbon Monoxide (CO)	8 hours	9.0 ppm (10 mg/m <sup>3</sup> )	Non-Dispersive Infrared Spectroscopy (NDIR)	9 ppm (10 mg/m <sup>3</sup> )	--	Non-Dispersive Infrared Spectroscopy (NDIR)
	1 hour	20 ppm (23 mg/m <sup>3</sup> )		35 ppm (40 mg/m <sup>3</sup> )		
Nitrogen Dioxide (NO <sub>2</sub> ) <sup>10</sup>	Annual Average	0.030 ppm (57 µg/m <sup>3</sup> )	Gas Phase Chemiluminescence	0.053 ppm (100 µg/m <sup>3</sup> )	Same as Primary Standard	Gas Phase Chemiluminescence
	1 hour	0.18 ppm (339 µg/m <sup>3</sup> )		100 ppb (188 µg/m <sup>3</sup> )	--	
Sulfur Dioxide (SO <sub>2</sub> ) <sup>11</sup>	Annual Average	--	Ultraviolet Fluorescence	0.03 ppm (80 µg/m <sup>3</sup> )	--	Pararosaniline
	24 hours	0.04 ppm (105 µg/m <sup>3</sup> )		0.14 ppm (365 µg/m <sup>3</sup> )	--	
	3 hours	--		--	0.5 ppm (1300 µg/m <sup>3</sup> )	
	1 hour	0.25 ppm (655 µg/m <sup>3</sup> )		75 ppb (196 µg/m <sup>3</sup> )	--	
Respirable Particulate Matter (PM <sub>10</sub> ) <sup>9</sup>	24 hours	50 µg/m <sup>3</sup>	Gravimetric or Beta Attenuation	150 µg/m <sup>3</sup>	150 µg/m <sup>3</sup>	Inertial Separation and Gravimetric Analysis
	Annual Arithmetic Mean	20 µg/m <sup>3</sup>		--	--	
Fine Particulate Matter (PM <sub>2.5</sub> ) <sup>9</sup>	Annual Arithmetic Mean	12 µg/m <sup>3</sup>	Gravimetric or Beta Attenuation	12 µg/m <sup>3</sup>	15 µg/m <sup>3</sup>	Inertial Separation and Gravimetric Analysis
	24 hours	--		35 µg/m <sup>3</sup>	Same as Primary Standard	

POLLUTANT	AVERAGE TIME	CALIFORNIA STANDARDS <sup>1</sup>		NATIONAL STANDARDS <sup>2</sup>			
		Concentration <sup>3</sup>	Method <sup>4</sup>	Primary <sup>3, 5</sup>	Secondary <sup>3, 6</sup>	Method <sup>7</sup>	
Sulfates	24 hours	25 µg/m <sup>3</sup>	Ion Chromatography	--	--	--	
Lead <sup>12, 13</sup> (Pb)	30-day Average	1.5 µg/m <sup>3</sup>	Atomic Absorption	--	--	High Volume Sampler and Atomic Absorption	
	Calendar Quarter	--		1.5 µg/m <sup>3</sup>	Same as Primary Standard		
	3-month Rolling Average	--		0.15 µg/m <sup>3</sup>			
Hydrogen Sulfide (H <sub>2</sub> S)	1 hour	0.03 ppm (42 µg/m <sup>3</sup> )	Ultraviolet Fluorescence	--	--	--	
Vinyl Chloride <sup>12</sup>	24 hours	0.010 ppm (26 µg/m <sup>3</sup> )	Gas Chromatography	--	--	--	

Notes:

ppm = parts per million

µg/m<sup>3</sup> = micrograms per cubic meter

mg/m<sup>3</sup> = 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<sub>10</sub>, PM<sub>2.5</sub>, 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<sub>10</sub>, 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<sup>3</sup> is equal to or less than one. For PM<sub>2.5</sub>, 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<sub>2.5</sub> primary standard was lowered from 15 µg/ m<sup>3</sup> to 12.0 µg/ m<sup>3</sup>. The existing national 24-hour PM<sub>2.5</sub> standards (primary and secondary) were retained at 35 µg/ m<sup>3</sup>, as was the annual secondary standard of 15 µg/ m<sup>3</sup>. The existing 24-hour PM<sub>10</sub> standards (primary and secondary) of 150 µg/ m<sup>3</sup> 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<sub>2</sub> 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<sub>2</sub> 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<sup>3</sup> 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. 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<sub>10</sub>) or particulate matter less than 2.5 microns in diameter (PM<sub>2.5</sub>) 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<sub>10</sub> and PM<sub>2.5</sub>. 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<sub>x</sub>) and reactive organic gases (ROG)<sup>1</sup>. 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.

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<sup>1</sup> 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 <sub>10</sub>	Unclassifiable**	Non-Attainment
PM <sub>2.5</sub>	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<sub>2</sub>) 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<sub>2</sub>, creating the mixture of NO and NO<sub>2</sub> commonly called NOx. Nitrogen dioxide is an acute irritant. A relationship between NO<sub>2</sub> 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<sub>10</sub> and acid rain.

**Suspended Particulates.** PM<sub>10</sub> is particulate matter measuring no more than 10 microns in diameter, while PM<sub>2.5</sub> is fine particulate matter measuring no more than 2.5 microns in diameter. Suspended particulates are mostly dust particles, nitrates and sulfates. Both PM<sub>10</sub> and PM<sub>2.5</sub> 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<sub>2.5</sub> 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) <sup>1</sup>	0	3	6
Particulate Matter <10 microns, µg/m <sup>3</sup> Worst 24 Hours*	39	36	46
Number of samples of State exceedances (>50 µg/m <sup>3</sup> )	0	*	0
Number of samples of Federal exceedances (>150 µg/m <sup>3</sup> )	0	0	0
Particulate Matter <2.5 microns, µg/m <sup>3</sup> 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 µg/m <sup>3</sup> )	0	0	0

<sup>1</sup> – 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**

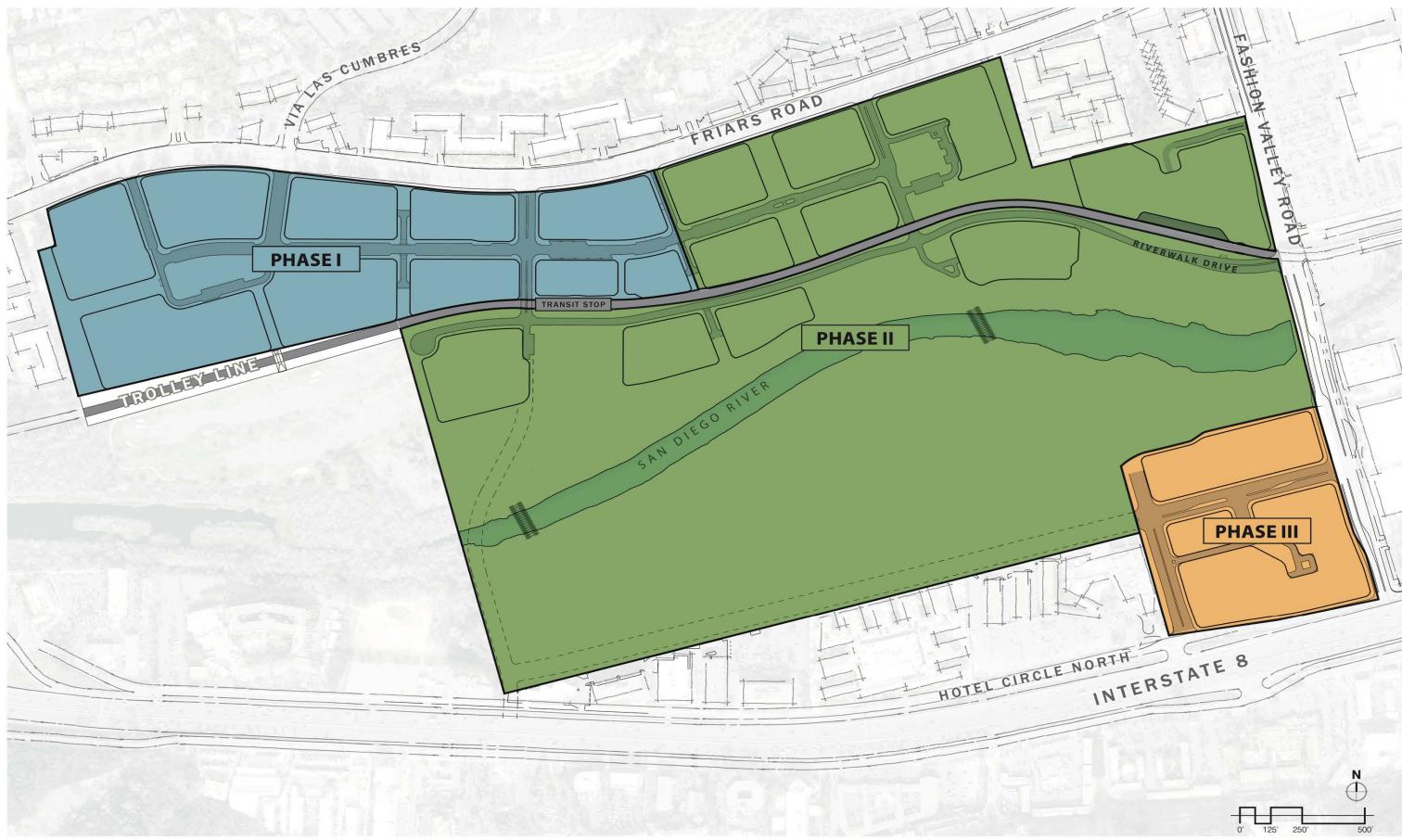
## AIR QUALITY IMPACT ANALYSIS

### METHODOLOGY AND SIGNIFICANCE THRESHOLDS

Air quality modeling was performed in general accordance with the methodologies outlined in the SDAPCD 2009 RAQS 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.

Construction activities would include demolition of existing asphalt concrete parking lots, 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.) 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 four-year construction duration for each phase (i.e., 2021-2025, 2026-2030 and 2031-2035) with full build out in 2035. The phases are defined as follows:

Phase I (North District):	1,910 multi-family dwelling units; 110,300 SF Retail; 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.



**Figure 5 — Construction Phasing**

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; thus, emissions were calculated for the purpose of estimating total construction emissions.

For modeling purposes, it was assumed that all construction equipment used would be diesel-powered. 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. Emissions associated with the application of architectural coating (i.e., painting) were calculated only for interior surfaces. 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. Fill import is estimated to be 621,200 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.

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. To determine whether a regional air quality impact would occur, the increase in emissions would be 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.

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<sub>2.5</sub> 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<sub>2.5</sub> 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<sub>2.5</sub> 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. 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

**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 <sub>10</sub> )	--	100	15
Sulfur Oxides (SOx)	25	250	40
Lead/Lead Compounds	--	3.2	0.6
Particulate Matter (PM <sub>2.5</sub> )	--	--	--
Volatile Organic Compounds (VOCs)	--	137 <sup>(a)</sup>	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.

land uses, provided. Therefore, future residential development could also occur in the South District.

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. Residential uses could occur 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 sensitive receptors, such as residential units closest to the freeway should such uses occur within the South District. 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<sub>10</sub> and PM<sub>2.5</sub>) from soil disturbance and exhaust emissions (NO<sub>x</sub> and CO) from heavy construction vehicles. For the purpose of estimating emissions, it was assumed that approximately 10 acres would be disturbed daily during the construction of each general grading phase. 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.

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. 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 (assuming 261 total workdays annually) and dividing by 2,000. 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.

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 would not be exceeded during construction of Phase II. 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. Impacts associated with construction of Phase II would be **less than significant** under **thresholds a-d**.

As shown in Table 7, the daily, hourly and annual emission thresholds 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. Impact related to construction of Phase III would be **less than significant** under **thresholds a-d**.

**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.**

**Table 5**  
**Estimated Maximum Construction Emissions – Phase I**

Construction Phase	Maximum Emissions (lbs/day)					
	ROG	NO <sub>x</sub>	CO	SOx	PM <sub>10</sub>	PM <sub>2.5</sub>
<b>2021 Maximum lbs/day</b>	17.2	199.5	136.5	0.6	33.3	11.9
<b>2022 Maximum lbs/day</b>	10.0	67.8	80.6	0.3	21.7	6.5
<b>2023 Maximum lbs/day</b>	9.1	56.0	75.7	0.3	21.5	6.3
<b>2024 Maximum lbs/day</b>	8.7	54.2	72.2	0.3	21.4	6.2
<b>2025 Maximum lbs/day</b>	116.5	62.8	94.0	0.3	25.4	7.6
<b>2026 Maximum lbs/day</b>	108.0	10.3	24.6	0.05	4.0	1.4
City of San Diego Screening Thresholds	137	250	550	250	100	67
<b>2021 Maximum lbs/hour</b>	--	<b>24.9</b>	<b>17.0</b>	<b>0.075</b>	--	--
<b>2022 Maximum lbs/hour</b>	--	<b>8.4</b>	<b>10.1</b>	<b>0.03</b>	--	--
<b>2023 Maximum lbs/hour</b>	--	<b>7.0</b>	<b>9.4</b>	<b>0.03</b>	--	--
<b>2024 Maximum lbs/hour</b>	--	<b>6.7</b>	<b>9.0</b>	<b>0.03</b>	--	--
<b>2025 Maximum lbs/hour</b>	--	<b>7.9</b>	<b>11.8</b>	<b>0.3</b>	--	--
<b>2026 Maximum lbs/hour</b>	--	1.2	3.0	0.0063	--	--
City of San Diego Screening Thresholds	--	25	100	25	--	--
<b>2021 Maximum tons/year</b>	<b>2.2</b>	<b>25.9</b>	<b>17.8</b>	<b>0.07</b>	<b>4.3</b>	--
<b>2022 Maximum tons/year</b>	<b>1.3</b>	<b>8.8</b>	<b>10.5</b>	<b>0.04</b>	<b>2.8</b>	--
<b>2023 Maximum tons/year</b>	<b>01.18</b>	<b>7.3</b>	<b>9.8</b>	<b>0.04</b>	<b>2.8</b>	--
<b>2024 Maximum tons/year</b>	<b>1.13</b>	<b>7.1</b>	<b>9.4</b>	<b>0.04</b>	<b>2.8</b>	--
<b>2025 Maximum tons/year</b>	<b>15.2</b>	<b>8.1</b>	<b>12.2</b>	<b>0.04</b>	<b>3.3</b>	--
<b>2026 Maximum tons/year</b>	<b>14.1</b>	<b>1.3</b>	<b>3.2</b>	<b>0.007</b>	<b>0.5</b>	
City of San Diego Screening Thresholds	15	40	100	40	15	--
<b>Threshold Exceeded 2021</b>	<b>No</b>	<b>No</b>	<b>No</b>	<b>No</b>	<b>No</b>	<b>No</b>
<b>Threshold Exceeded 2022</b>	<b>No</b>	<b>No</b>	<b>No</b>	<b>No</b>	<b>No</b>	<b>No</b>
<b>Threshold Exceeded 2023</b>	<b>No</b>	<b>No</b>	<b>No</b>	<b>No</b>	<b>No</b>	<b>No</b>
<b>Threshold Exceeded 2024</b>	<b>No</b>	<b>No</b>	<b>No</b>	<b>No</b>	<b>No</b>	<b>No</b>
<b>Threshold Exceeded 2025</b>	<b>No</b>	<b>No</b>	<b>No</b>	<b>No</b>	<b>No</b>	<b>No</b>
<b>Threshold Exceeded 2026</b>	<b>No</b>	<b>No</b>	<b>No</b>	<b>No</b>	<b>No</b>	<b>No</b>

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 <sub>x</sub>	CO	SOx	PM <sub>10</sub>	PM <sub>2.5</sub>
<b>2026 Maximum lbs/day</b>	3.3	41.6	32.3	0.1	11.0	5.9
<b>2027 Maximum lbs/day</b>	13.1	93.9	105.6	0.5	39.1	11.0
<b>2028 Maximum lbs/day</b>	12.6	92.7	102.0	0.5	39.1	11.0
<b>2029 Maximum lbs/day</b>	12.1	91.4	98.6	0.5	39.1	11.0
<b>2030 Maximum lbs/day</b>	117.4	87.5	108.7	0.5	6.2	12.4
<b>2031 Maximum lbs/day</b>	105.8	1.6	12.6	0.04	45.0	1.6
City of San Diego Screening Thresholds	137	250	550	250	100	67
<b>2026 Maximum lbs/hour</b>	--	<b>5.2</b>	<b>4.0</b>	<b>0.02</b>	--	--
<b>2027 Maximum lbs/hour</b>	--	<b>11.7</b>	<b>13.2</b>	<b>0.06</b>	--	--
<b>2028 Maximum lbs/hour</b>	--	<b>11.5</b>	<b>12.8</b>	<b>0.06</b>	--	--
<b>2029 Maximum lbs/hour</b>	--	<b>11.4</b>	<b>12.3</b>	<b>0.06</b>	--	--
<b>2030 Maximum lbs/hour</b>	--	<b>10.9</b>	<b>13.5</b>	<b>0.06</b>	--	--
<b>2031 Maximum lbs/hour</b>		0.2	1.6	0.005		
City of San Diego Screening Thresholds	--	25	100	25	--	--
<b>2026 Maximum tons/year</b>	<b>0.43</b>	<b>5.4</b>	<b>42.2</b>	<b>0.013</b>	<b>1.4</b>	--
<b>2027 Maximum tons/year</b>	<b>1.7</b>	<b>12.2</b>	<b>13.7</b>	<b>0.06</b>	<b>5.1</b>	--
<b>2028 Maximum tons/year</b>	<b>1.6</b>	<b>12.1</b>	<b>13.3</b>	<b>0.06</b>	<b>5.1</b>	--
<b>2029 Maximum tons/year</b>	<b>1.6</b>	<b>11.9</b>	<b>12.8</b>	<b>0.06</b>	<b>5.1</b>	--
<b>2030 Maximum tons/year</b>	<b>15.2</b>	<b>11.4</b>	<b>14.1</b>	<b>0.06</b>	<b>0.8</b>	--
<b>2031 Maximum tons/year</b>	13.8	0.2	1.6	0.0006	5.9	
City of San Diego Screening Thresholds	15	40	100	40	15	--
<b>Threshold Exceeded 2026</b>	<b>No</b>	<b>No</b>	<b>No</b>	<b>No</b>	<b>No</b>	<b>No</b>
<b>Threshold Exceeded 2027</b>	<b>No</b>	<b>No</b>	<b>No</b>	<b>No</b>	<b>No</b>	<b>No</b>
<b>Threshold Exceeded 2028</b>	<b>No</b>	<b>No</b>	<b>No</b>	<b>No</b>	<b>No</b>	<b>No</b>
<b>Threshold Exceeded 2029</b>	<b>No</b>	<b>No</b>	<b>No</b>	<b>No</b>	<b>No</b>	<b>No</b>
<b>Threshold Exceeded 2030</b>	<b>No</b>	<b>No</b>	<b>No</b>	<b>No</b>	<b>No</b>	<b>No</b>
<b>Threshold Exceeded 2031</b>	<b>No</b>	<b>No</b>	<b>No</b>	<b>No</b>	<b>No</b>	<b>No</b>

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 <sub>x</sub>	CO	SOx	PM <sub>10</sub>	PM <sub>2.5</sub>
<b>2031 Maximum lbs/day</b>	3.8	35.0	36.6	0.2	10.8	5.5
<b>2032 Maximum lbs/day</b>	3.6	34.7	36.0	0.2	10.0	2.8
<b>2033 Maximum lbs/day</b>	3.5	34.5	35.5	0.2	10.0	2.8
<b>2034 Maximum lbs/day</b>	3.4	34.3	35.0	0.2	10.0	2.8
<b>2035 Maximum lbs/day</b>	94.4	33.3	34.5	0.2	9.94	2.8
<b>2036 Maximum lbs/day</b>	94.4	0.9	3.9	0.01	1.4	0.4
City of San Diego Screening Thresholds	137	250	550	250	100	67
<b>2031 Maximum lbs/hour</b>	--	4.3	4.5	0.025	--	--
<b>2031 Maximum lbs/hour</b>	--	4.3	4.5	0.025	--	--
<b>2033 Maximum lbs/hour</b>	--	4.3	4.5	0.025	--	--
<b>2034 Maximum lbs/hour</b>	--	4.3	4.5	0.025	--	--
<b>2035 Maximum lbs/hour</b>	--	4.3	4.3	0.025	--	--
<b>2036 Maximum lbs/hour</b>		0.1	0.48	0.0001		
City of San Diego Screening Thresholds	--	25	100	25	--	--
<b>2031 Maximum tons/year</b>	0.49	4.5	4.7	0.02	1.4	--
<b>2032 Maximum tons/year</b>	0.5	4.5	4.7	0.02	1.3	--
<b>2033 Maximum tons/year</b>	0.5	4.5	4.7	0.02	1.3	--
<b>2034 Maximum tons/year</b>	0.5	4.5	4.5	0.02	1.3	--
<b>2035 Maximum tons/year</b>	12.3	4.3	4.5	0.2	1.3	--
<b>2036 Maximum tons/year</b>	12.3	0.11	0.5	0.001	0.18	
City of San Diego Screening Thresholds	15	40	100	40	15	--
<b>Threshold Exceeded 2031</b>	No	No	No	No	No	No
<b>Threshold Exceeded 2032</b>	No	No	No	No	No	No
<b>Threshold Exceeded 2033</b>	No	No	No	No	No	No
<b>Threshold Exceeded 2034</b>	No	No	No	No	No	No
<b>Threshold Exceeded 2035</b>	No	No	No	No	No	No
<b>Threshold Exceeded 2036</b>	No	No	No	No	No	No

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

## OPERATIONAL

### 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 emissions under Phase I would not exceed the daily, hourly or annual thresholds for pollutants modeled.

**Phase II.** As shown in Table 8, under Phase II would not exceed the daily, hourly or annual thresholds for pollutants modeled.

**Phase III.** As shown in Table 8, under Phase III would not exceed the daily, hourly or annual thresholds for pollutants modeled.

**Cumulative Total.** The daily standards for NOx, SOx and PM<sub>2.5</sub> would not be exceeded at full build out as shown in Table 8. However, the daily ROG, CO and PM<sub>10</sub> standards would be exceeded as would the tons/year threshold for ROG, CO and PM<sub>10</sub>.

The SDAPCD thresholds for ROG, CO and PM<sub>10</sub> 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 PM<sub>10</sub> and ozone precursor emissions. This would be a **significant impact per threshold c**. 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<sub>10</sub> and the annual standard for PM<sub>10</sub>.

**Table 8**  
**Estimated Operational Emissions**

	Estimated Emissions (lbs/day)					
	ROG	NOx	CO	SOx	PM <sub>10</sub>	PM <sub>2.5</sub>
<b>Phase I</b>						
Area	56.9	1.8	157.8	0.01	0.8	0.8
Energy	0.4	4.2	2.0	0.02	0.3	0.3
Mobile	16.0	56.4	131.4	0.4	39.7	10.8
Maximum lbs/day	<b>73.4</b>	<b>62.4</b>	<b>291.2</b>	<b>0.4</b>	<b>40.9</b>	<b>12.0</b>
<b>Phase II</b>						
Area	64.3	2.2	197	0.01	1.1	1.1
Energy	0.5	4.4	1.9	0.02	0.3	0.3
Mobile	12.1	48.1	101.2	0.3	37.6	10.2
Maximum lbs/day	<b>76.9</b>	<b>54.9</b>	<b>300.2</b>	<b>0.4</b>	<b>39.1</b>	<b>11.6</b>
<b>Phase III</b>						
Area	27.4	0.01	0.3	0.01	0.01	0.01
Energy	0.5	5.0	4.2	0.03	0.3	0.3
Mobile	9.7	43.8	104.6	0.4	50.9	13.7
Maximum lbs/day	<b>37.7</b>	<b>48.9</b>	<b>109.2</b>	<b>0.4</b>	<b>51.3</b>	<b>14.1</b>
Cumulative Total	<b>188</b>	<b>166.2</b>	<b>701.3</b>	1.2	<b>131.3</b>	37.7
SDAPCD Thresholds	137	250	550	250	100	67
Maximum lbs/hour	--	6.9	29.2	0.05	--	--
SDAPCD Thresholds	--	25	100	25	--	--
Maximum tons/annually	<b>34.3</b>	30.3	<b>128</b>	0.25	<b>23.9</b>	--
SDAPCD Thresholds	15	40	100	40	15	--
Threshold Exceeded?	<b>Yes</b>	<b>No</b>	<b>Yes</b>	<b>No</b>	<b>Yes</b>	<b>No</b>

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 then dividing by 2,000.

## 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 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 than what was approved in the Levi Cushman Specific Plan.

Projects that propose development that is consistent with the growth anticipated by the General Plan is 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<sub>10</sub> 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). Therefore, the project would not cause of contribute to a conflict with the AQMP, RAQS or SIP.

## CONCLUSION

As discussed herein, project related emissions would exceed the SDAPCD and City of San Diego thresholds during operation. The project would not exceed standards during construction of the three phases. 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. 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 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 would not conflict with the SIP, AQMP or RAQS 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.

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, specific measures are included in the Specific Plan that would apply to future residential development in the South District such that health risk impacts would be less than significant.

## REFERENCES

California Air Resources Board. *Ambient Air Quality Standards*. Updated May 2016.

<http://www.arb.ca.gov/research/aaqs/aaqs2.pdf>

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California Emission Estimator Model Users Guide. September 2016.

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

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RECON, *Air Quality Analysis for the Mission Valley Community Plan Update San Diego, California*, February 2019.

University of California Davis, *Transportation Project-Level Carbon Monoxide Protocol Revised*, December 1997.

## **Appendix A**

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

## Riverwalk Phase I - San Diego County, Summer

**Riverwalk Phase I**  
**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**

## Riverwalk Phase I - San Diego County, Summer

Project Characteristics -

Land Use -

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

Off-road Equipment -

Trips and VMT - Assumes use of a 40 yd truck

Grading - Assumes no more than 10 acres would be disturbed during grading each day.

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

Exterior materials will not require painting.

Vehicle Trips -

Woodstoves - Assumes no hearth or fireplace

Area Coating - 100 g/L VOC per APCD Rule 67 for residential and non-residential interiors

Assumes exterior finishes will not require painting

Construction Off-road Equipment Mitigation -

Mobile Land Use Mitigation -

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

Assumes no exterior painting required.

Water Mitigation -

Waste Mitigation -

## Riverwalk Phase I - San Diego County, Summer

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	UseLowVOCPaintNonresidentialExteriorValue	100	0
tblAreaMitigation	UseLowVOCPaintParkingCheck	False	True
tblAreaMitigation	UseLowVOCPaintResidentialExteriorValue	100	0
tblConstructionPhase	NumDays	75.00	245.00
tblConstructionPhase	NumDays	1,110.00	1,061.00
tblConstructionPhase	NumDays	110.00	200.00
tblConstructionPhase	NumDays	40.00	60.00
tblGrading	AcresOfGrading	500.00	10.00
tblGrading	AcresOfGrading	0.00	10.00
tblGrading	MaterialImported	0.00	501,000.00
tblGrading	MaterialImported	0.00	120,000.00
tblGrading	MeanVehicleSpeed	7.10	40.00
tblGrading	MeanVehicleSpeed	7.10	40.00

**2.0 Emissions Summary**

## Riverwalk Phase I - San Diego County, Summer

**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	17.2897	199.5938	136.5086	0.6393	34.3973	3.7932	37.8135	12.6801	3.5108	16.1909	0.0000	66,897.68 90	66,897.68 90	6.4298	0.0000	67,058.43 35	
2022	10.0063	67.8633	80.6437	0.3264	20.7044	1.0178	21.7222	5.5680	0.9567	6.5247	0.0000	33,481.51 02	33,481.51 02	2.0665	0.0000	33,533.17 32	
2023	9.1855	56.0614	75.7975	0.3164	20.7044	0.8590	21.5634	5.5680	0.8066	6.3747	0.0000	32,486.16 40	32,486.16 40	1.9395	0.0000	32,534.65 04	
2024	8.7184	54.2682	72.2269	0.3090	20.7044	0.7694	21.4738	5.5680	0.7221	6.2902	0.0000	31,769.24 24	31,769.24 24	1.8922	0.0000	31,816.54 68	
2025	116.5427	62.8933	94.0852	0.3581	24.2942	1.1737	25.4679	6.5202	1.0964	7.6166	0.0000	36,593.18 98	36,593.18 98	2.6522	0.0000	36,659.49 57	
2026	108.1920	10.3706	24.6108	0.0551	3.5899	0.4923	4.0822	0.9522	0.4570	1.4092	0.0000	5,416.243 1	5,416.243 1	0.7965	0.0000	5,436.156 1	
Maximum	116.5427	199.5938	136.5086	0.6393	34.3973	3.7932	37.8135	12.6801	3.5108	16.1909	0.0000	66,897.68 90	66,897.68 90	6.4298	0.0000	67,058.43 35	

## Riverwalk Phase I - San Diego County, Summer

**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	17.2897	199.5938	136.5086	0.6393	29.9659	3.7932	33.3821	8.8188	3.5108	11.9941	0.0000	66,897.68 89	66,897.68 89	6.4298	0.0000	67,058.43 35
2022	10.0063	67.8633	80.6437	0.3264	20.7044	1.0178	21.7222	5.5680	0.9567	6.5247	0.0000	33,481.51 02	33,481.51 02	2.0665	0.0000	33,533.17 32
2023	9.1855	56.0614	75.7975	0.3164	20.7044	0.8590	21.5634	5.5680	0.8066	6.3747	0.0000	32,486.16 40	32,486.16 40	1.9395	0.0000	32,534.65 04
2024	8.7184	54.2682	72.2269	0.3090	20.7044	0.7694	21.4738	5.5680	0.7221	6.2902	0.0000	31,769.24 24	31,769.24 24	1.8922	0.0000	31,816.54 68
2025	116.5427	62.8933	94.0852	0.3581	24.2942	1.1737	25.4679	6.5202	1.0964	7.6166	0.0000	36,593.18 98	36,593.18 98	2.6522	0.0000	36,659.49 57
2026	108.1920	10.3706	24.6108	0.0551	3.5899	0.4923	4.0822	0.9522	0.4570	1.4092	0.0000	5,416.243 1	5,416.243 1	0.7965	0.0000	5,436.156 1
Maximum	116.5427	199.5938	136.5086	0.6393	29.9659	3.7932	33.3821	8.8188	3.5108	11.9941	0.0000	66,897.68 89	66,897.68 89	6.4298	0.0000	67,058.43 35

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	3.56	0.00	3.35	10.48	0.00	9.45	0.00	0.00	0.00	0.00	0.00	0.00

## Riverwalk Phase I - San Diego County, Summer

**2.2 Overall Operational****Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Area	2,980.0518	58.9007	3,765.9981	6.5454		506.7779	506.7779		506.7779	506.7779	53,044.0057	22,530.4270	75,574.4327	49.2246	4.1723	78,048.3973	
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	19.6700	73.2295	216.7035	0.8154	77.9650	0.6180	78.5830	20.8330	0.5747	21.4077		83,173.6306	83,173.6306	4.0125		83,273.9442	
Total	3,000.2103	136.3434	3,984.7558	7.3874	77.9650	507.7336	585.6985	20.8330	507.6902	528.5232	53,044.0057	111,034.2631	164,078.2688	53.3393	4.2700	166,684.2216	

**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	56.9974	1.8168	157.8049	8.3500e-003		0.8749	0.8749		0.8749	0.8749	0.0000	284.5447	284.5447	0.2738	0.0000	291.3901	
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	16.0039	56.4031	131.4264	0.4399	39.4049	0.3526	39.7575	10.5294	0.3276	10.8569		44,964.5678	44,964.5678	2.4013		45,024.5995	
Total	73.4899	62.4330	291.2856	0.4749	39.4049	1.5650	40.9699	10.5294	1.5400	12.0694	0.0000	50,579.3179	50,579.3179	2.7773	0.0977	50,677.8697	

## Riverwalk Phase I - 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	N20	CO2e
Percent Reduction	97.55	54.21	92.69	93.57	49.46	99.69	93.00	49.46	99.70	97.72	100.00	54.45	69.17	94.79	97.71	69.60

### 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	12/31/2021	5	200	
4	Building Construction	Building Construction	11/6/2021	12/1/2025	5	1061	
5	Architectural Coating	Architectural Coating	6/1/2025	5/8/2026	5	245	
6	Paving	Paving	11/3/2025	2/13/2026	5	75	

**Acres of Grading (Site Preparation Phase): 10**

**Acres of Grading (Grading Phase): 10**

**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

## Riverwalk Phase I - San Diego County, Summer

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Excavators	3	8.00	158	0.38
Demolition	Rubber Tired Dozers	2	8.00	247	0.40
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	2	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
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

## Riverwalk Phase I - San Diego County, Summer

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	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	15,000.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	62,625.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	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**

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					
Off-Road	3.1651	31.4407	21.5650	0.0388		1.5513	1.5513		1.4411	1.4411	3,747.944 9	3,747.944 9	1.0549		3,774.317 4	
Total	3.1651	31.4407	21.5650	0.0388		1.5513	1.5513		1.4411	1.4411	3,747.944 9	3,747.944 9	1.0549		3,774.317 4	

## Riverwalk Phase I - San Diego County, Summer

**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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Worker	0.0519	0.0337	0.3979	1.2300e-003	0.1232	8.5000e-004	0.1241	0.0327	7.8000e-004	0.0335	122.1661	122.1661	3.4900e-003	122.2533			
<b>Total</b>	<b>0.0519</b>	<b>0.0337</b>	<b>0.3979</b>	<b>1.2300e-003</b>	<b>0.1232</b>	<b>8.5000e-004</b>	<b>0.1241</b>	<b>0.0327</b>	<b>7.8000e-004</b>	<b>0.0335</b>		<b>122.1661</b>	<b>122.1661</b>	<b>3.4900e-003</b>		<b>122.2533</b>	

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Off-Road	3.1651	31.4407	21.5650	0.0388			1.5513	1.5513		1.4411	1.4411	0.0000	3,747.9449	3,747.9449	1.0549		3,774.3174
<b>Total</b>	<b>3.1651</b>	<b>31.4407</b>	<b>21.5650</b>	<b>0.0388</b>			<b>1.5513</b>	<b>1.5513</b>		<b>1.4411</b>	<b>1.4411</b>	<b>0.0000</b>	<b>3,747.9449</b>	<b>3,747.9449</b>	<b>1.0549</b>		<b>3,774.3174</b>

## Riverwalk Phase I - San Diego County, Summer

**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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0519	0.0337	0.3979	1.2300e-003	0.1232	8.5000e-004	0.1241	0.0327	7.8000e-004	0.0335	122.1661	122.1661	3.4900e-003	122.2533		
Total	0.0519	0.0337	0.3979	1.2300e-003	0.1232	8.5000e-004	0.1241	0.0327	7.8000e-004	0.0335		122.1661	122.1661	3.4900e-003		122.2533

**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					23.9573	0.0000	23.9573	11.4110	0.0000	11.4110		0.0000				0.0000
Off-Road	3.8882	40.4971	21.1543	0.0380		2.0445	2.0445		1.8809	1.8809	3,685.6569	3,685.6569	1.1920			3,715.4573
Total	3.8882	40.4971	21.1543	0.0380	23.9573	2.0445	26.0018	11.4110	1.8809	13.2919		3,685.6569	3,685.6569	1.1920		3,715.4573

## Riverwalk Phase I - San Diego County, Summer

**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	1.8557	64.0832	15.6775	0.1928	4.3684	0.1955	4.5640	1.1972	0.1871	1.3843	21,142.00 72	21,142.00 72	1.8676			21,188.69 67	
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Worker	0.0623	0.0405	0.4774	1.4700e-003	0.1479	1.0200e-003	0.1489	0.0392	9.4000e-004	0.0402	146.5994	146.5994	4.1800e-003			146.7040	
Total	1.9180	64.1237	16.1549	0.1943	4.5163	0.1966	4.7129	1.2364	0.1880	1.4244	21,288.60 66	21,288.60 66	1.8718			21,335.40 07	

**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					10.7808	0.0000	10.7808	5.1350	0.0000	5.1350			0.0000			0.0000	
Off-Road	3.8882	40.4971	21.1543	0.0380		2.0445	2.0445		1.8809	1.8809	0.0000	3,685.656 9	3,685.656 9	1.1920		3,715.457 3	
Total	3.8882	40.4971	21.1543	0.0380	10.7808	2.0445	12.8252	5.1350	1.8809	7.0159	0.0000	3,685.656 9	3,685.656 9	1.1920		3,715.457 3	

## Riverwalk Phase I - San Diego County, Summer

**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	1.8557	64.0832	15.6775	0.1928	4.3684	0.1955	4.5640	1.1972	0.1871	1.3843	21,142.00 72	21,142.00 72	1.8676			21,188.69 67
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0623	0.0405	0.4774	1.4700e-003	0.1479	1.0200e-003	0.1489	0.0392	9.4000e-004	0.0402	146.5994	146.5994	4.1800e-003			146.7040
Total	1.9180	64.1237	16.1549	0.1943	4.5163	0.1966	4.7129	1.2364	0.1880	1.4244	21,288.60 66	21,288.60 66	1.8718			21,335.40 07

**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					8.0571	0.0000	8.0571	3.7949	0.0000	3.7949			0.0000			0.0000
Off-Road	4.1912	46.3998	30.8785	0.0620		1.9853	1.9853		1.8265	1.8265	6,007.043 4	6,007.043 4	1.9428			6,055.613 4
Total	4.1912	46.3998	30.8785	0.0620	8.0571	1.9853	10.0424	3.7949	1.8265	5.6214	6,007.043 4	6,007.043 4	1.9428			6,055.613 4

## Riverwalk Phase I - San Diego County, Summer

**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	2.3243	80.2642	19.6361	0.2415	5.4715	0.2449	5.7164	1.4995	0.2343	1.7338	26,480.36 40	26,480.36 40	2.3391			26,538.84 26
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	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	2.3935	80.3092	20.1666	0.2431	5.6358	0.2460	5.8818	1.5431	0.2354	1.7784	26,643.25 22	26,643.25 22	2.3438			26,701.84 70

**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					3.6257	0.0000	3.6257	1.7077	0.0000	1.7077			0.0000			0.0000
Off-Road	4.1912	46.3998	30.8785	0.0620		1.9853	1.9853		1.8265	1.8265	0.0000	6,007.043 4	6,007.043 4	1.9428		6,055.613 4
Total	4.1912	46.3998	30.8785	0.0620	3.6257	1.9853	5.6110	1.7077	1.8265	3.5342	0.0000	6,007.043 4	6,007.043 4	1.9428		6,055.613 4

## Riverwalk Phase I - San Diego County, Summer

**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	2.3243	80.2642	19.6361	0.2415	5.4715	0.2449	5.7164	1.4995	0.2343	1.7338	26,480.36 40	26,480.36 40	2.3391			26,538.84 26	
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	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	2.3935	80.3092	20.1666	0.2431	5.6358	0.2460	5.8818	1.5431	0.2354	1.7784	26,643.25 22	26,643.25 22	2.3438			26,701.84 70	

**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	1.9009	17.4321	16.5752	0.0269		0.9586	0.9586		0.9013	0.9013	2,553.363 9	2,553.363 9	0.6160			2,568.764 3	
Total	1.9009	17.4321	16.5752	0.0269		0.9586	0.9586		0.9013	0.9013	2,553.363 9	2,553.363 9	0.6160			2,568.764 3	

## Riverwalk Phase I - San Diego County, Summer

**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	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	14,509.32 69	14,509.32 69	1.0367		14,535.24 54	
Worker	7.2983	4.7416	55.9653	0.1724	17.3332	0.1197	17.4529	4.5976	0.1103	4.7079	17,184.70 25	17,184.70 25	0.4904		17,196.96 34	
<b>Total</b>	<b>8.8041</b>	<b>55.4527</b>	<b>68.8884</b>	<b>0.3073</b>	<b>20.7044</b>	<b>0.2263</b>	<b>20.9307</b>	<b>5.5680</b>	<b>0.2122</b>	<b>5.7802</b>	<b>31,694.02 94</b>	<b>31,694.02 94</b>	<b>1.5272</b>		<b>31,732.20 88</b>	

**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	1.9009	17.4321	16.5752	0.0269			0.9586	0.9586		0.9013	0.9013	0.0000	2,553.363 9	2,553.363 9	0.6160		2,568.764 3
<b>Total</b>	<b>1.9009</b>	<b>17.4321</b>	<b>16.5752</b>	<b>0.0269</b>			<b>0.9586</b>	<b>0.9586</b>		<b>0.9013</b>	<b>0.9013</b>	<b>0.0000</b>	<b>2,553.363 9</b>	<b>2,553.363 9</b>	<b>0.6160</b>		<b>2,568.764 3</b>

## Riverwalk Phase I - San Diego County, Summer

**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	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	14,509.32 69	14,509.32 69	1.0367		14,535.24 54		
Worker	7.2983	4.7416	55.9653	0.1724	17.3332	0.1197	17.4529	4.5976	0.1103	4.7079	17,184.70 25	17,184.70 25	0.4904		17,196.96 34		
Total	8.8041	55.4527	68.8884	0.3073	20.7044	0.2263	20.9307	5.5680	0.2122	5.7802	31,694.02 94	31,694.02 94	1.5272		31,732.20 88		

**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	1.7062	15.6156	16.3634	0.0269		0.8090	0.8090		0.7612	0.7612	2,554.333 6	2,554.333 6	0.6120		2,569.632 2		
Total	1.7062	15.6156	16.3634	0.0269		0.8090	0.8090		0.7612	0.7612	2,554.333 6	2,554.333 6	0.6120		2,569.632 2		

## Riverwalk Phase I - San Diego County, Summer

**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	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	14,372.96 61	14,372.96 61	1.0050		14,398.09 07		
Worker	6.8996	4.3238	52.0409	0.1661	17.3332	0.1171	17.4503	4.5976	0.1079	4.7054	16,554.21 06	16,554.21 06	0.4496		16,565.45 03		
<b>Total</b>	<b>8.3000</b>	<b>52.2477</b>	<b>64.2803</b>	<b>0.2995</b>	<b>20.7044</b>	<b>0.2088</b>	<b>20.9132</b>	<b>5.5680</b>	<b>0.1955</b>	<b>5.7635</b>	<b>30,927.17 67</b>	<b>30,927.17 67</b>	<b>1.4546</b>		<b>30,963.54 10</b>		

**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	1.7062	15.6156	16.3634	0.0269		0.8090	0.8090		0.7612	0.7612	0.0000 6	2,554.333 6	2,554.333 6	0.6120		2,569.632 2
<b>Total</b>	<b>1.7062</b>	<b>15.6156</b>	<b>16.3634</b>	<b>0.0269</b>		<b>0.8090</b>	<b>0.8090</b>		<b>0.7612</b>	<b>0.7612</b>	<b>0.0000</b>	<b>2,554.333 6</b>	<b>2,554.333 6</b>	<b>0.6120</b>		<b>2,569.632 2</b>

## Riverwalk Phase I - San Diego County, Summer

**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	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	14,372.96 61	14,372.96 61	1.0050		14,398.09 07		
Worker	6.8996	4.3238	52.0409	0.1661	17.3332	0.1171	17.4503	4.5976	0.1079	4.7054	16,554.21 06	16,554.21 06	0.4496		16,565.45 03		
Total	8.3000	52.2477	64.2803	0.2995	20.7044	0.2088	20.9132	5.5680	0.1955	5.7635	30,927.17 67	30,927.17 67	1.4546		30,963.54 10		

**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	1.5728	14.3849	16.2440	0.0269		0.6997	0.6997		0.6584	0.6584	2,555.209 9	2,555.209 9	0.6079		2,570.406 1		
Total	1.5728	14.3849	16.2440	0.0269		0.6997	0.6997		0.6584	0.6584	2,555.209 9	2,555.209 9	0.6079		2,570.406 1		

## Riverwalk Phase I - San Diego County, Summer

**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	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	14,009.58 83	14,009.58 83	0.9201		14,032.58 99		
Worker	6.5330	3.9486	48.3419	0.1597	17.3332	0.1148	17.4480	4.5976	0.1057	4.7033	15,921.36 58	15,921.36 58	0.4116		15,931.65 44		
<b>Total</b>	<b>7.6127</b>	<b>41.6765</b>	<b>59.5535</b>	<b>0.2894</b>	<b>20.7044</b>	<b>0.1593</b>	<b>20.8637</b>	<b>5.5680</b>	<b>0.1482</b>	<b>5.7163</b>	<b>29,930.95 41</b>	<b>29,930.95 41</b>	<b>1.3316</b>		<b>29,964.24 43</b>		

**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	1.5728	14.3849	16.2440	0.0269		0.6997	0.6997		0.6584	0.6584	0.0000	2,555.209 9	2,555.209 9	0.6079		2,570.406 1
<b>Total</b>	<b>1.5728</b>	<b>14.3849</b>	<b>16.2440</b>	<b>0.0269</b>		<b>0.6997</b>	<b>0.6997</b>		<b>0.6584</b>	<b>0.6584</b>	<b>0.0000</b>	<b>2,555.209 9</b>	<b>2,555.209 9</b>	<b>0.6079</b>		<b>2,570.406 1</b>

## Riverwalk Phase I - San Diego County, Summer

**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	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	14,009.58 83	14,009.58 83	0.9201		14,032.58 99		
Worker	6.5330	3.9486	48.3419	0.1597	17.3332	0.1148	17.4480	4.5976	0.1057	4.7033	15,921.36 58	15,921.36 58	0.4116		15,931.65 44		
Total	7.6127	41.6765	59.5535	0.2894	20.7044	0.1593	20.8637	5.5680	0.1482	5.7163	29,930.95 41	29,930.95 41	1.3316		29,964.24 43		

**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	1.4716	13.4438	16.1668	0.0270		0.6133	0.6133		0.5769	0.5769	2,555.698 9	2,555.698 9	0.6044		2,570.807 7		
Total	1.4716	13.4438	16.1668	0.0270		0.6133	0.6133		0.5769	0.5769	2,555.698 9	2,555.698 9	0.6044		2,570.807 7		

## Riverwalk Phase I - San Diego County, Summer

**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	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	13,919.48 05	13,919.48 05	0.9095		13,942.21 74		
Worker	6.2051	3.6224	45.1981	0.1534	17.3332	0.1127	17.4459	4.5976	0.1038	4.7013	15,294.06 30	15,294.06 30	0.3784		15,303.52 17		
Total	7.2468	40.8244	56.0600	0.2821	20.7044	0.1561	20.8605	5.5680	0.1452	5.7133	29,213.54 35	29,213.54 35	1.2878		29,245.73 91		

**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	1.4716	13.4438	16.1668	0.0270		0.6133	0.6133		0.5769	0.5769	0.0000	2,555.698 9	2,555.698 9	0.6044		2,570.807 7	
Total	1.4716	13.4438	16.1668	0.0270		0.6133	0.6133		0.5769	0.5769	0.0000	2,555.698 9	2,555.698 9	0.6044		2,570.807 7	

## Riverwalk Phase I - San Diego County, Summer

**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	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	13,919.48 05	13,919.48 05	0.9095		13,942.21 74		
Worker	6.2051	3.6224	45.1981	0.1534	17.3332	0.1127	17.4459	4.5976	0.1038	4.7013	15,294.06 30	15,294.06 30	0.3784		15,303.52 17		
Total	7.2468	40.8244	56.0600	0.2821	20.7044	0.1561	20.8605	5.5680	0.1452	5.7133	29,213.54 35	29,213.54 35	1.2878		29,245.73 91		

**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	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963	2,556.474 4	2,556.474 4	0.6010		2,571.498 1	
Total	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963	2,556.474 4	2,556.474 4	0.6010		2,571.498 1	

## Riverwalk Phase I - San Diego County, Summer

**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	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	13,833.84 12	13,833.84 12	0.9005		13,856.35 28	
Worker	5.9203	3.3402	42.2196	0.1472	17.3332	0.1110	17.4441	4.5976	0.1021	4.6997	14,675.29 52	14,675.29 52	0.3494		14,684.03 02	
<b>Total</b>	<b>6.9314</b>	<b>40.0047</b>	<b>52.8694</b>	<b>0.2749</b>	<b>20.7044</b>	<b>0.1531</b>	<b>20.8575</b>	<b>5.5680</b>	<b>0.1424</b>	<b>5.7105</b>	<b>28,509.13 64</b>	<b>28,509.13 64</b>	<b>1.2499</b>		<b>28,540.38 30</b>	

**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	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963	0.0000 4	2,556.474 4	2,556.474 4	0.6010		2,571.498 1
<b>Total</b>	<b>1.3674</b>	<b>12.4697</b>	<b>16.0847</b>	<b>0.0270</b>		<b>0.5276</b>	<b>0.5276</b>		<b>0.4963</b>	<b>0.4963</b>	<b>0.0000</b>	<b>2,556.474 4</b>	<b>2,556.474 4</b>	<b>0.6010</b>		<b>2,571.498 1</b>

## Riverwalk Phase I - San Diego County, Summer

**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	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	13,833.84 12	13,833.84 12	0.9005		13,856.35 28	
Worker	5.9203	3.3402	42.2196	0.1472	17.3332	0.1110	17.4441	4.5976	0.1021	4.6997	14,675.29 52	14,675.29 52	0.3494		14,684.03 02	
Total	6.9314	40.0047	52.8694	0.2749	20.7044	0.1531	20.8575	5.5680	0.1424	5.7105	28,509.13 64	28,509.13 64	1.2499		28,540.38 30	

**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	105.7930						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	105.9639	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515	281.4481	281.4481	0.0154			281.8319

## Riverwalk Phase I - San Diego County, Summer

**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	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	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	2,935.059 1	2,935.059 1	0.0699		2,936.806 1	
<b>Total</b>	<b>1.1841</b>	<b>0.6680</b>	<b>8.4439</b>	<b>0.0294</b>	<b>3.4666</b>	<b>0.0222</b>	<b>3.4888</b>	<b>0.9195</b>	<b>0.0204</b>	<b>0.9399</b>	<b>2,935.059 1</b>	<b>2,935.059 1</b>	<b>0.0699</b>		<b>2,936.806 1</b>	

**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	105.7930						0.0000	0.0000		0.0000	0.0000		0.0000			0.0000
Off-Road	0.1709	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515	0.0000	281.4481	281.4481	0.0154		281.8319
<b>Total</b>	<b>105.9639</b>	<b>1.1455</b>	<b>1.8091</b>	<b>2.9700e-003</b>		<b>0.0515</b>	<b>0.0515</b>		<b>0.0515</b>	<b>0.0515</b>	<b>0.0000</b>	<b>281.4481</b>	<b>281.4481</b>	<b>0.0154</b>		<b>281.8319</b>

## Riverwalk Phase I - San Diego County, Summer

**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	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	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	2,935.059 1	2,935.059 1	0.0699		2,936.806 1	
Total	1.1841	0.6680	8.4439	0.0294	3.4666	0.0222	3.4888	0.9195	0.0204	0.9399	2,935.059 1	2,935.059 1	0.0699		2,936.806 1	

**3.6 Architectural Coating - 2026****Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	105.7930						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	105.9639	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515	281.4481	281.4481	0.0154		281.8319	

## Riverwalk Phase I - San Diego County, Summer

**3.6 Architectural Coating - 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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.1340	0.6214	7.9414	0.0284	3.4666	0.0215	3.4881	0.9195	0.0198	0.9393	2,827.544 8	2,827.544 8	0.0651			2,829.173 4
<b>Total</b>	<b>1.1340</b>	<b>0.6214</b>	<b>7.9414</b>	<b>0.0284</b>	<b>3.4666</b>	<b>0.0215</b>	<b>3.4881</b>	<b>0.9195</b>	<b>0.0198</b>	<b>0.9393</b>	<b>2,827.544 8</b>	<b>2,827.544 8</b>	<b>0.0651</b>			<b>2,829.173 4</b>

**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	105.7930						0.0000	0.0000		0.0000	0.0000		0.0000			0.0000
Off-Road	0.1709	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515	0.0000	281.4481	281.4481	0.0154		281.8319
<b>Total</b>	<b>105.9639</b>	<b>1.1455</b>	<b>1.8091</b>	<b>2.9700e-003</b>		<b>0.0515</b>	<b>0.0515</b>		<b>0.0515</b>	<b>0.0515</b>	<b>0.0000</b>	<b>281.4481</b>	<b>281.4481</b>	<b>0.0154</b>		<b>281.8319</b>

## Riverwalk Phase I - San Diego County, Summer

**3.6 Architectural Coating - 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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.1340	0.6214	7.9414	0.0284	3.4666	0.0215	3.4881	0.9195	0.0198	0.9393	2,827.544 8	2,827.544 8	0.0651		2,829.173 4	
Total	1.1340	0.6214	7.9414	0.0284	3.4666	0.0215	3.4881	0.9195	0.0198	0.9393	2,827.544 8	2,827.544 8	0.0651		2,829.173 4	

**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	2,206.745 2	2,206.745 2	0.7137		2,224.587 8	
Paving	0.1387					0.0000	0.0000		0.0000	0.0000		0.0000		0.7137		0.0000
Total	1.0538	8.5816	14.5780	0.0228		0.4185	0.4185		0.3850	0.3850	2,206.745 2	2,206.745 2	0.7137		2,224.587 8	

## Riverwalk Phase I - San Diego County, Summer

**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	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	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
<b>Total</b>	<b>0.0421</b>	<b>0.0238</b>	<b>0.3001</b>	<b>1.0500e-003</b>	<b>0.1232</b>	<b>7.9000e-004</b>	<b>0.1240</b>	<b>0.0327</b>	<b>7.3000e-004</b>	<b>0.0334</b>		<b>104.3267</b>	<b>104.3267</b>	<b>2.4800e-003</b>		<b>104.3888</b>

**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	0.9152	8.5816	14.5780	0.0228		0.4185	0.4185		0.3850	0.3850	0.0000	2,206.7452	2,206.7452	0.7137		2,224.5878
Paving	0.1387					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>1.0538</b>	<b>8.5816</b>	<b>14.5780</b>	<b>0.0228</b>		<b>0.4185</b>	<b>0.4185</b>		<b>0.3850</b>	<b>0.3850</b>	<b>0.0000</b>	<b>2,206.7452</b>	<b>2,206.7452</b>	<b>0.7137</b>		<b>2,224.5878</b>

## Riverwalk Phase I - San Diego County, Summer

**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	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	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	<b>0.0421</b>	<b>0.0238</b>	<b>0.3001</b>	<b>1.0500e-003</b>	<b>0.1232</b>	<b>7.9000e-004</b>	<b>0.1240</b>	<b>0.0327</b>	<b>7.3000e-004</b>	<b>0.0334</b>	<b>104.3267</b>	<b>104.3267</b>	<b>2.4800e-003</b>			<b>104.3888</b>

**3.7 Paving - 2026****Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.9152	8.5816	14.5780	0.0228		0.4185	0.4185		0.3850	0.3850	2,206.745 2	2,206.745 2	0.7137			2,224.587 8
Paving	0.1387					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	<b>1.0538</b>	<b>8.5816</b>	<b>14.5780</b>	<b>0.0228</b>		<b>0.4185</b>	<b>0.4185</b>		<b>0.3850</b>	<b>0.3850</b>	<b>2,206.745 2</b>	<b>2,206.745 2</b>	<b>0.7137</b>			<b>2,224.587 8</b>

## Riverwalk Phase I - San Diego County, Summer

**3.7 Paving - 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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	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		
<b>Total</b>	<b>0.0403</b>	<b>0.0221</b>	<b>0.2823</b>	<b>1.0100e-003</b>	<b>0.1232</b>	<b>7.6000e-004</b>	<b>0.1240</b>	<b>0.0327</b>	<b>7.0000e-004</b>	<b>0.0334</b>		<b>100.5052</b>	<b>100.5052</b>	<b>2.3200e-003</b>		<b>100.5630</b>

**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	0.9152	8.5816	14.5780	0.0228		0.4185	0.4185		0.3850	0.3850	0.0000	2,206.7452	2,206.7452	0.7137		2,224.5878
Paving	0.1387					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>1.0538</b>	<b>8.5816</b>	<b>14.5780</b>	<b>0.0228</b>		<b>0.4185</b>	<b>0.4185</b>		<b>0.3850</b>	<b>0.3850</b>	<b>0.0000</b>	<b>2,206.7452</b>	<b>2,206.7452</b>	<b>0.7137</b>		<b>2,224.5878</b>

## Riverwalk Phase I - San Diego County, Summer

**3.7 Paving - 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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	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	<b>0.0403</b>	<b>0.0221</b>	<b>0.2823</b>	<b>1.0100e-003</b>	<b>0.1232</b>	<b>7.6000e-004</b>	<b>0.1240</b>	<b>0.0327</b>	<b>7.0000e-004</b>	<b>0.0334</b>		<b>100.5052</b>	<b>100.5052</b>	<b>2.3200e-003</b>		<b>100.5630</b>

**4.0 Operational Detail - Mobile****4.1 Mitigation Measures Mobile**

Increase Density

Improve Walkability Design

Improve Destination Accessibility

Increase Transit Accessibility

Improve Pedestrian Network

## Riverwalk Phase I - 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					
Mitigated	16.0039	56.4031	131.4264	0.4399	39.4049	0.3526	39.7575	10.5294	0.3276	10.8569	44,964.56 78	44,964.56 78	2.4013		45,024.59 95		
Unmitigated	19.6700	73.2295	216.7035	0.8154	77.9650	0.6180	78.5830	20.8330	0.5747	21.4077	83,173.63 06	83,173.63 06	4.0125		83,273.94 42		

**4.2 Trip Summary Information**

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments High Rise	8,022.00	9,511.80	6971.50	23,084,434	11,667,286
City Park	9.00	108.29	79.68	71,046	35,908
Enclosed Parking with Elevator	0.00	0.00	0.00		
Office Park	742.30	106.60	49.40	1,384,702	699,853
Parking Lot	0.00	0.00	0.00		
Strip Mall	4,888.50	4,637.01	2253.43	6,893,391	3,484,043
Total	13,661.79	14,363.70	9,354.01	31,433,573	15,887,090

**4.3 Trip Type Information**

## Riverwalk Phase I - San Diego County, Summer

Land Use	Miles			Trip %			Trip Purpose %		
	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 - 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	5,330.205 5	5,330.205 5	0.1022	0.0977	5,361.880 2	
NaturalGas Unmitigated	0.4886	4.2132	2.0542	0.0267		0.3376	0.3376		0.3376	0.3376	5,330.205 5	5,330.205 5	0.1022	0.0977	5,361.880 2	

## Riverwalk Phase I - San Diego County, Summer

**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	4,573.374 2	4,573.374 2	0.0877	0.0839	4,600.551 5	
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	
<b>Total</b>		<b>0.4886</b>	<b>4.2132</b>	<b>2.0543</b>	<b>0.0267</b>		<b>0.3376</b>	<b>0.3376</b>		<b>0.3376</b>	<b>0.3376</b>	<b>5,330.205 4</b>	<b>5,330.205 4</b>	<b>0.1022</b>	<b>0.0977</b>	<b>5,361.880 2</b>	

## Riverwalk Phase I - San Diego County, Summer

**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	4,573.374 2	4,573.374 2	0.0877	0.0839	4,600.551 5	
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	
<b>Total</b>		<b>0.4886</b>	<b>4.2132</b>	<b>2.0543</b>	<b>0.0267</b>		<b>0.3376</b>	<b>0.3376</b>		<b>0.3376</b>	<b>0.3376</b>	<b>5,330.205 4</b>	<b>5,330.205 4</b>	<b>0.1022</b>	<b>0.0977</b>	<b>5,361.880 2</b>	

**6.0 Area Detail****6.1 Mitigation Measures Area**

Use Low VOC Paint - Residential Interior

Use Low VOC Paint - Non-Residential Interior

No Hearths Installed

## Riverwalk Phase I - 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					
Mitigated	56.9974	1.8168	157.8049	8.3500e-003		0.8749	0.8749		0.8749	0.8749	0.0000	284.5447	284.5447	0.2738	0.0000	291.3901
Unmitigated	2,980.0518	58.9007	3,765.9981	6.5454		506.7779	506.7779		506.7779	506.7779	53,044.0057	22,530.4270	75,574.4327	49.2246	4.1723	78,048.3973

## 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	2,923.0544	57.0839	3,608.1931	6.5370		505.9031	505.9031		505.9031	505.9031	53,044.0057	22,245.8824	75,289.8881	48.9508	4.1723	77,757.0072
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
<b>Total</b>	<b>2,980.0518</b>	<b>58.9007</b>	<b>3,765.9980</b>	<b>6.5454</b>		<b>506.7779</b>	<b>506.7779</b>		<b>506.7779</b>	<b>506.7779</b>	<b>53,044.0057</b>	<b>22,530.4270</b>	<b>75,574.4327</b>	<b>49.2246</b>	<b>4.1723</b>	<b>78,048.3973</b>

## Riverwalk Phase I - San Diego County, Summer

**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	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	
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
<b>Total</b>	<b>56.9974</b>	<b>1.8168</b>	<b>157.8049</b>	<b>8.3500e-003</b>			<b>0.8749</b>	<b>0.8749</b>		<b>0.8749</b>	<b>0.8749</b>	<b>0.0000</b>	<b>284.5447</b>	<b>284.5447</b>	<b>0.2738</b>	<b>0.0000</b>	<b>291.3901</b>

**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**

Riverwalk Phase I - San Diego County, Summer

## 9.0 Operational Offroad

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

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### Fire Pumps and Emergency Generators

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

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
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### User Defined Equipment

Equipment Type	Number
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## 11.0 Vegetation

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## Riverwalk Phase II - San Diego County, Summer

**Riverwalk Phase II**  
**San Diego County, Summer**

**1.0 Project Characteristics****1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
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
Parking Lot	52.00	Space	0.47	20,800.00	0
Enclosed Parking with Elevator	3,585.00	Space	32.27	1,434,000.00	0

**1.2 Other Project Characteristics**

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

**1.3 User Entered Comments & Non-Default Data**

## Riverwalk Phase II - San Diego County, Summer

## Project Characteristics -

Land Use - User defined recreational is a 53.48 acre undeveloped park.

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

Grading - Assumes no more than 10 acres of grading per day.

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

Assumes exterior finishes will not require painting

Vehicle Trips - Defaults modified to reflect TIA and user defined undeveloped park

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

Assumes exterior finishes will not require painting

## Construction Off-road Equipment Mitigation -

## Mobile Land Use Mitigation -

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

Assumes exterior finishes would not require painting

## Water Mitigation -

## Waste Mitigation -

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	250.00	0.00
tblArchitecturalCoating	EF_Nonresidential_Interior	250.00	100.00
tblArchitecturalCoating	EF_Parking	250.00	100.00
tblArchitecturalCoating	EF_Residential_Exterior	250.00	0.00
tblArchitecturalCoating	EF_Residential_Interior	250.00	100.00
tblAreaCoating	Area_EF_Nonresidential_Exterior	250	0
tblAreaCoating	Area_EF_Nonresidential_Interior	250	100
tblAreaCoating	Area_EF_Parking	250	100
tblAreaCoating	Area_EF_Residential_Exterior	250	0
tblAreaCoating	Area_EF_Residential_Interior	250	100
tblAreaMitigation	UseLowVOCPaintParkingCheck	False	True
tblConstructionPhase	NumDays	3,100.00	950.00

## Riverwalk Phase II - San Diego County, Summer

tblConstructionPhase	NumDays	200.00	30.00
tblConstructionPhase	NumDays	310.00	180.00
tblConstructionPhase	NumDays	220.00	60.00
tblConstructionPhase	NumDays	120.00	60.00
tblConstructionPhase	PhaseEndDate	12/25/2041	4/4/2031
tblConstructionPhase	PhaseEndDate	4/18/2040	9/4/2030
tblConstructionPhase	PhaseEndDate	10/7/2026	2/11/2026
tblConstructionPhase	PhaseEndDate	5/31/2028	1/13/2027
tblConstructionPhase	PhaseEndDate	2/20/2041	11/27/2030
tblConstructionPhase	PhaseEndDate	3/24/2027	5/6/2026
tblConstructionPhase	PhaseStartDate	2/21/2041	6/1/2030
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
tblGrading	AcresOfGrading	450.00	10.00
tblGrading	AcresOfGrading	0.00	10.00
tblGrading	MaterialImported	0.00	168,075.00
tblGrading	MaterialImported	0.00	56,025.00

**2.0 Emissions Summary**

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## Riverwalk Phase II - San Diego County, Summer

**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	3.3950	41.8067	32.3317	0.1291	20.0040	1.1576	21.1173	10.4311	1.0659	11.4563	0.0000	13,439.93 82	13,439.93 82	2.6095	0.0000	13,505.17 60
2027	13.1775	93.9178	105.6919	0.5428	38.3846	1.1570	39.1808	10.3445	1.0653	11.0910	0.0000	56,389.15 67	56,389.15 67	3.0410	0.0000	56,465.18 16
2028	12.6705	92.7004	102.0738	0.5338	38.3846	0.7811	39.1656	10.3445	0.7325	11.0769	0.0000	55,511.092 5	55,511.092 5	2.9951	0.0000	55,585.96 97
2029	12.1273	91.4826	98.6155	0.5258	38.3845	0.7670	39.1515	10.3445	0.7194	11.0639	0.0000	54,726.32 21	54,726.32 21	2.9557	0.0000	54,800.21 32
2030	117.4801	87.5971	108.7672	0.5710	44.6195	0.4244	45.0439	11.9983	0.4068	12.4051	0.0000	59,187.33 88	59,187.33 88	2.5381	0.0000	59,250.79 22
2031	105.8746	1.6611	12.6993	0.0473	6.2350	0.0475	6.2825	1.6538	0.0453	1.6991	0.0000	4,700.1175 4,700.1175	4,700.1175 4,700.1175	0.0986	0.0000	4,702.583 1
Maximum	117.4801	93.9178	108.7672	0.5710	44.6195	1.1576	45.0439	11.9983	1.0659	12.4051	0.0000	59,187.33 88	59,187.33 88	3.0410	0.0000	59,250.79 22

## Riverwalk Phase II - San Diego County, Summer

**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	3.3950	41.8067	32.3317	0.1291	9.9703	1.1576	11.0836	4.9587	1.0659	5.9839	0.0000	13,439.93 82	13,439.93 82	2.6095	0.0000	13,505.17 60
2027	13.1775	93.9178	105.6919	0.5428	38.3846	1.1570	39.1808	10.3445	1.0653	11.0910	0.0000	56,389.15 67	56,389.15 67	3.0410	0.0000	56,465.18 16
2028	12.6705	92.7004	102.0738	0.5338	38.3846	0.7811	39.1656	10.3445	0.7325	11.0769	0.0000	55,511.092 5	55,511.092 5	2.9951	0.0000	55,585.96 97
2029	12.1273	91.4826	98.6155	0.5258	38.3845	0.7670	39.1515	10.3445	0.7194	11.0639	0.0000	54,726.32 21	54,726.32 21	2.9557	0.0000	54,800.21 32
2030	117.4801	87.5971	108.7672	0.5710	44.6195	0.4244	45.0439	11.9983	0.4068	12.4051	0.0000	59,187.33 88	59,187.33 88	2.5381	0.0000	59,250.79 22
2031	105.8746	1.6611	12.6993	0.0473	6.2350	0.0475	6.2825	1.6538	0.0453	1.6991	0.0000	4,700.1175 5	4,700.1175 5	0.0986	0.0000	4,702.583 1
Maximum	117.4801	93.9178	108.7672	0.5710	44.6195	1.1576	45.0439	11.9983	1.0659	12.4051	0.0000	59,187.33 88	59,187.33 88	3.0410	0.0000	59,250.79 22

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	5.39	0.00	5.28	9.93	0.00	9.31	0.00	0.00	0.00	0.00	0.00	0.00

## Riverwalk Phase II - San Diego County, Summer

**2.2 Overall Operational****Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day											lb/day					
Area	3,721.963 0	73.7001	4,712.000 1	8.1903		634.1358	634.1358		634.1358	634.1358	66,374.43 65	28,192.32 69	94,566.76 33	61.5930	5.2209	97,662.40 07	
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	5,766.182 9	
Mobile	15.7968	63.2316	182.3236	0.7513	82.1254	0.4692	82.5946	21.9403	0.4359	22.3761		76,956.06 21	76,956.06 21	3.5976		77,046.00 31	
Total	3,738.285 2	141.4223	4,896.237 8	8.9703	82.1254	634.9680	717.0934	21.9403	634.9347	656.8750	66,374.43 65	110,880.5 087	177,254.9 452	65.3005	5.3259	180,474.5 867	

**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	64.3191	2.2705	197.0359	0.0104		1.0948	1.0948		1.0948	1.0948	0.0000	355.8563	355.8563	0.3404	0.0000	364.3655
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	5,766.182 9
Mobile	12.1512	48.1598	101.2673	0.3693	37.4519	0.2471	37.6990	10.0055	0.2293	10.2348		37,928.91 08	37,928.91 08	1.9591		37,977.88 82
Total	76.9957	54.9209	300.2173	0.4084	37.4519	1.7050	39.1568	10.0055	1.6872	11.6927	0.0000	44,016.88 68	44,016.88 68	2.4093	0.1051	44,108.43 66

## Riverwalk Phase II - 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	N20	CO2e
Percent Reduction	97.94	61.17	93.87	95.45	54.40	99.73	94.54	54.40	99.73	98.22	100.00	60.30	75.17	96.31	98.03	75.56

### 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	1/13/2027	5	180	
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	6/1/2030	4/4/2031	5	220	

Acres of Grading (Site Preparation Phase): 10

Acres of Grading (Grading Phase): 10

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 - San Diego County, Summer

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Excavators	3	8.00	158	0.38
Demolition	Rubber Tired Dozers	2	8.00	247	0.40
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	2	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
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

## Riverwalk Phase II - San Diego County, Summer

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	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	5,539.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	16,618.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	3,795.00	1,065.00	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
Paving	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

Water Exposed Area

**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					
Off-Road	2.0926	19.1966	19.4184	0.0388		0.8528	0.8528		0.7920	0.7920	3,747.599 6	3,747.599 6	1.0464		3,773.760 6	
Total	2.0926	19.1966	19.4184	0.0388		0.8528	0.8528		0.7920	0.7920	3,747.599 6	3,747.599 6	1.0464		3,773.760 6	

## Riverwalk Phase II - San Diego County, Summer

**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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	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		
<b>Total</b>	<b>0.0403</b>	<b>0.0221</b>	<b>0.2823</b>	<b>1.0100e-003</b>	<b>0.1232</b>	<b>7.6000e-004</b>	<b>0.1240</b>	<b>0.0327</b>	<b>7.0000e-004</b>	<b>0.0334</b>		<b>100.5052</b>	<b>100.5052</b>	<b>2.3200e-003</b>		<b>100.5630</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.0926	19.1966	19.4184	0.0388		0.8528	0.8528		0.7920	0.7920	0.0000	3,747.5996	3,747.5996	1.0464		3,773.7606
<b>Total</b>	<b>2.0926</b>	<b>19.1966</b>	<b>19.4184</b>	<b>0.0388</b>		<b>0.8528</b>	<b>0.8528</b>		<b>0.7920</b>	<b>0.7920</b>	<b>0.0000</b>	<b>3,747.5996</b>	<b>3,747.5996</b>	<b>1.0464</b>		<b>3,773.7606</b>

## Riverwalk Phase II - San Diego County, Summer

**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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0403	0.0221	0.2823	1.0100e-003	0.1232	7.6000e-004	0.1240	0.0327	7.0000e-004	0.0334	100.5052	100.5052	2.3200e-003	100.5630		
Total	0.0403	0.0221	0.2823	1.0100e-003	0.1232	7.6000e-004	0.1240	0.0327	7.0000e-004	0.0334		100.5052	100.5052	2.3200e-003		100.5630

**3.3 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					18.2430	0.0000	18.2430	9.9498	0.0000	9.9498		0.0000				0.0000
Off-Road	2.4727	25.2339	17.9118	0.0381		1.0868	1.0868		0.9999	0.9999	3,689.1037	3,689.1037	1.1931			3,718.9320
Total	2.4727	25.2339	17.9118	0.0381	18.2430	1.0868	19.3298	9.9498	0.9999	10.9496		3,689.1037	3,689.1037	1.1931		3,718.9320

## Riverwalk Phase II - San Diego County, Summer

**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	0.4400	13.8335	5.6239	0.0657	1.6131	0.0256	1.6387	0.4421	0.0245	0.4666	7,297.210 8	7,297.210 8	0.6632			7,313.790 3
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	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
<b>Total</b>	<b>0.4884</b>	<b>13.8600</b>	<b>5.9626</b>	<b>0.0669</b>	<b>1.7609</b>	<b>0.0266</b>	<b>1.7875</b>	<b>0.4813</b>	<b>0.0254</b>	<b>0.5067</b>	<b>7,417.817 0</b>	<b>7,417.817 0</b>	<b>0.6660</b>			<b>7,434.466 0</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					8.2094	0.0000	8.2094	4.4774	0.0000	4.4774			0.0000			0.0000
Off-Road	2.4727	25.2339	17.9118	0.0381		1.0868	1.0868		0.9999	0.9999	0.0000	3,689.103 7	3,689.103 7	1.1931		3,718.932 0
<b>Total</b>	<b>2.4727</b>	<b>25.2339</b>	<b>17.9118</b>	<b>0.0381</b>	<b>8.2094</b>	<b>1.0868</b>	<b>9.2961</b>	<b>4.4774</b>	<b>0.9999</b>	<b>5.4773</b>	<b>0.0000</b>	<b>3,689.103 7</b>	<b>3,689.103 7</b>	<b>1.1931</b>		<b>3,718.932 0</b>

## Riverwalk Phase II - San Diego County, Summer

**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	0.4400	13.8335	5.6239	0.0657	1.6131	0.0256	1.6387	0.4421	0.0245	0.4666	7,297.210 8	7,297.210 8	0.6632			7,313.790 3
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	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
<b>Total</b>	<b>0.4884</b>	<b>13.8600</b>	<b>5.9626</b>	<b>0.0669</b>	<b>1.7609</b>	<b>0.0266</b>	<b>1.7875</b>	<b>0.4813</b>	<b>0.0254</b>	<b>0.5067</b>	<b>7,417.817 0</b>	<b>7,417.817 0</b>	<b>0.6660</b>			<b>7,434.466 0</b>

**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					6.0810	0.0000	6.0810	3.3166	0.0000	3.3166			0.0000			0.0000
Off-Road	2.9012	27.9429	26.3311	0.0621		1.1309	1.1309		1.0404	1.0404	6,008.281 4	6,008.281 4	1.9432			6,056.861 4
<b>Total</b>	<b>2.9012</b>	<b>27.9429</b>	<b>26.3311</b>	<b>0.0621</b>	<b>6.0810</b>	<b>1.1309</b>	<b>7.2119</b>	<b>3.3166</b>	<b>1.0404</b>	<b>4.3570</b>	<b>6,008.281 4</b>	<b>6,008.281 4</b>	<b>1.9432</b>			<b>6,056.861 4</b>

## Riverwalk Phase II - San Diego County, Summer

**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	0.4400	13.8343	5.6242	0.0657	1.6774	0.0256	1.7031	0.4579	0.0245	0.4824	7,297.649 9	7,297.649 9	0.6632			7,314.230 5
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	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
<b>Total</b>	<b>0.4938</b>	<b>13.8638</b>	<b>6.0006</b>	<b>0.0670</b>	<b>1.8417</b>	<b>0.0267</b>	<b>1.8684</b>	<b>0.5015</b>	<b>0.0255</b>	<b>0.5269</b>	<b>7,431.656 8</b>	<b>7,431.656 8</b>	<b>0.6663</b>			<b>7,448.314 5</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					2.7365	0.0000	2.7365	1.4925	0.0000	1.4925			0.0000			0.0000
Off-Road	2.9012	27.9429	26.3311	0.0621		1.1309	1.1309		1.0404	1.0404	0.0000	6,008.281 4	6,008.281 4	1.9432		6,056.861 4
<b>Total</b>	<b>2.9012</b>	<b>27.9429</b>	<b>26.3311</b>	<b>0.0621</b>	<b>2.7365</b>	<b>1.1309</b>	<b>3.8673</b>	<b>1.4925</b>	<b>1.0404</b>	<b>2.5329</b>	<b>0.0000</b>	<b>6,008.281 4</b>	<b>6,008.281 4</b>	<b>1.9432</b>		<b>6,056.861 4</b>

## Riverwalk Phase II - San Diego County, Summer

**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	0.4400	13.8343	5.6242	0.0657	1.6774	0.0256	1.7031	0.4579	0.0245	0.4824	7,297.649 9	7,297.649 9	0.6632			7,314.230 5
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	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	0.4938	13.8638	6.0006	0.0670	1.8417	0.0267	1.8684	0.5015	0.0255	0.5269	7,431.656 8	7,431.656 8	0.6663			7,448.314 5

**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					6.0810	0.0000	6.0810	3.3166	0.0000	3.3166			0.0000			0.0000
Off-Road	2.9012	27.9429	26.3311	0.0621		1.1309	1.1309		1.0404	1.0404	6,008.281 4	6,008.281 4	1.9432			6,056.861 4
Total	2.9012	27.9429	26.3311	0.0621	6.0810	1.1309	7.2119	3.3166	1.0404	4.3570	6,008.281 4	6,008.281 4	1.9432			6,056.861 4

## Riverwalk Phase II - San Diego County, Summer

**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	0.4344	13.5111	5.6809	0.0652	24.8046	0.0251	24.8297	6.1346	0.0240	6.1586	7,255.856 1	7,255.856 1	0.6655			7,272.492 6
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	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
<b>Total</b>	<b>0.4857</b>	<b>13.5386</b>	<b>6.0362</b>	<b>0.0665</b>	<b>24.9689</b>	<b>0.0261</b>	<b>24.9950</b>	<b>6.1781</b>	<b>0.0249</b>	<b>6.2030</b>	<b>7,385.376 2</b>	<b>7,385.376 2</b>	<b>0.6684</b>			<b>7,402.085 0</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					2.7365	0.0000	2.7365	1.4925	0.0000	1.4925			0.0000			0.0000
Off-Road	2.9012	27.9429	26.3311	0.0621		1.1309	1.1309		1.0404	1.0404	0.0000	6,008.281 4	6,008.281 4	1.9432		6,056.861 4
<b>Total</b>	<b>2.9012</b>	<b>27.9429</b>	<b>26.3311</b>	<b>0.0621</b>	<b>2.7365</b>	<b>1.1309</b>	<b>3.8673</b>	<b>1.4925</b>	<b>1.0404</b>	<b>2.5329</b>	<b>0.0000</b>	<b>6,008.281 4</b>	<b>6,008.281 4</b>	<b>1.9432</b>		<b>6,056.861 4</b>

## Riverwalk Phase II - San Diego County, Summer

**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	0.4344	13.5111	5.6809	0.0652	24.8046	0.0251	24.8297	6.1346	0.0240	6.1586	7,255.856 1	7,255.856 1	0.6655			7,272.492 6
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	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	<b>0.4857</b>	<b>13.5386</b>	<b>6.0362</b>	<b>0.0665</b>	<b>24.9689</b>	<b>0.0261</b>	<b>24.9950</b>	<b>6.1781</b>	<b>0.0249</b>	<b>6.2030</b>	<b>7,385.376 2</b>	<b>7,385.376 2</b>	<b>0.6684</b>			<b>7,402.085 0</b>

**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	2,556.474 4	2,556.474 4	0.6010			2,571.498 1
Total	<b>1.3674</b>	<b>12.4697</b>	<b>16.0847</b>	<b>0.0270</b>		<b>0.5276</b>	<b>0.5276</b>		<b>0.4963</b>	<b>0.4963</b>	<b>2,556.474 4</b>	<b>2,556.474 4</b>	<b>0.6010</b>			<b>2,571.498 1</b>

## Riverwalk Phase II - San Diego County, Summer

**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	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	29,256.23 66	29,256.23 66	1.8913		29,303.51 91		
Worker	9.7491	5.2170	67.4116	0.2464	31.1750	0.1829	31.3580	8.2691	0.1683	8.4374	24,576.44 57	24,576.44 57	0.5488		24,590.16 44		
<b>Total</b>	<b>11.8101</b>	<b>81.4481</b>	<b>89.6072</b>	<b>0.5158</b>	<b>38.3846</b>	<b>0.2687</b>	<b>38.6532</b>	<b>10.3445</b>	<b>0.2503</b>	<b>10.5947</b>	<b>53,832.68 23</b>	<b>53,832.68 23</b>	<b>2.4401</b>		<b>53,893.68 35</b>		

**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	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963	0.0000 4	2,556.474 4	2,556.474 4	0.6010		2,571.498 1
<b>Total</b>	<b>1.3674</b>	<b>12.4697</b>	<b>16.0847</b>	<b>0.0270</b>		<b>0.5276</b>	<b>0.5276</b>		<b>0.4963</b>	<b>0.4963</b>	<b>0.0000</b>	<b>2,556.474 4</b>	<b>2,556.474 4</b>	<b>0.6010</b>		<b>2,571.498 1</b>

## Riverwalk Phase II - San Diego County, Summer

**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	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	29,256.23 66	29,256.23 66	1.8913		29,303.51 91		
Worker	9.7491	5.2170	67.4116	0.2464	31.1750	0.1829	31.3580	8.2691	0.1683	8.4374	24,576.44 57	24,576.44 57	0.5488		24,590.16 44		
Total	11.8101	81.4481	89.6072	0.5158	38.3846	0.2687	38.6532	10.3445	0.2503	10.5947	53,832.68 23	53,832.68 23	2.4401		53,893.68 35		

**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	2,556.474 4	2,556.474 4	0.6010		2,571.498 1	
Total	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963	2,556.474 4	2,556.474 4	0.6010		2,571.498 1	

## Riverwalk Phase II - San Diego County, Summer

**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	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	
<b>Total</b>	<b>11.3031</b>	<b>80.2307</b>	<b>85.9891</b>	<b>0.5068</b>	<b>38.3846</b>	<b>0.2535</b>	<b>38.6380</b>	<b>10.3445</b>	<b>0.2362</b>	<b>10.5807</b>	<b>52,954.6181</b>	<b>52,954.6181</b>	<b>2.3941</b>		<b>53,014.4716</b>	

**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	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963	0.0000	2,556.4744	2,556.4744	0.6010		2,571.4981
<b>Total</b>	<b>1.3674</b>	<b>12.4697</b>	<b>16.0847</b>	<b>0.0270</b>		<b>0.5276</b>	<b>0.5276</b>		<b>0.4963</b>	<b>0.4963</b>	<b>0.0000</b>	<b>2,556.4744</b>	<b>2,556.4744</b>	<b>0.6010</b>		<b>2,571.4981</b>

## Riverwalk Phase II - San Diego County, Summer

**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	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	29,124.811 2	29,124.811 2	1.8768		29,171.73 14	
Worker	9.2783	4.8887	63.9263	0.2389	31.1750	0.1694	31.3445	8.2691	0.1559	8.4249	23,829.80 70	23,829.80 70	0.5173		23,842.74 02	
Total	11.3031	80.2307	85.9891	0.5068	38.3846	0.2535	38.6380	10.3445	0.2362	10.5807	52,954.61 81	52,954.61 81	2.3941		53,014.47 16	

**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	2,556.474 4	2,556.474 4	0.6010		2,571.498 1	
Total	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963	2,556.474 4	2,556.474 4	0.6010		2,571.498 1	

## Riverwalk Phase II - San Diego County, Summer

**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	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	28,996.01 26	28,996.01 26	1.8664		29,042.67 32	
Worker	8.7699	4.5868	60.6190	0.2323	31.1750	0.1573	31.3323	8.2691	0.1447	8.4138	23,173.83 52	23,173.83 52	0.4883		23,186.04 19	
<b>Total</b>	<b>10.7599</b>	<b>79.0130</b>	<b>82.5309</b>	<b>0.4988</b>	<b>38.3845</b>	<b>0.2394</b>	<b>38.6239</b>	<b>10.3445</b>	<b>0.2232</b>	<b>10.5676</b>	<b>52,169.84 78</b>	<b>52,169.84 78</b>	<b>2.3547</b>		<b>52,228.71 51</b>	

**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	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963	0.0000 4	2,556.474 4	2,556.474 4	0.6010		2,571.498 1
<b>Total</b>	<b>1.3674</b>	<b>12.4697</b>	<b>16.0847</b>	<b>0.0270</b>		<b>0.5276</b>	<b>0.5276</b>		<b>0.4963</b>	<b>0.4963</b>	<b>0.0000</b>	<b>2,556.474 4</b>	<b>2,556.474 4</b>	<b>0.6010</b>		<b>2,571.498 1</b>

## Riverwalk Phase II - San Diego County, Summer

**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	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	28,996.01 26	28,996.01 26	1.8664		29,042.67 32		
Worker	8.7699	4.5868	60.6190	0.2323	31.1750	0.1573	31.3323	8.2691	0.1447	8.4138	23,173.83 52	23,173.83 52	0.4883		23,186.04 19		
Total	10.7599	79.0130	82.5309	0.4988	38.3845	0.2394	38.6239	10.3445	0.2232	10.5676	52,169.84 78	52,169.84 78	2.3547		52,228.71 51		

**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	2,897.546 8	2,897.546 8	0.1162		2,900.452 9		
Total	1.3091	7.9346	16.1570	0.0310		0.1481	0.1481		0.1481	0.1481	2,897.546 8	2,897.546 8	0.1162		2,900.452 9		

## Riverwalk Phase II - San Diego County, Summer

**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	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	28,891.41 06	28,891.41 06	1.8575		28,937.84 67		
Worker	8.2160	4.2956	57.4815	0.2265	31.1750	0.1462	31.3212	8.2691	0.1345	8.4035	22,597.44 45	22,597.44 45	0.4609		22,608.96 65		
<b>Total</b>	<b>10.1793</b>	<b>77.9471</b>	<b>79.3162</b>	<b>0.4918</b>	<b>38.3845</b>	<b>0.2267</b>	<b>38.6112</b>	<b>10.3445</b>	<b>0.2114</b>	<b>10.5559</b>	<b>51,488.85 51</b>	<b>51,488.85 51</b>	<b>2.3183</b>		<b>51,546.81 32</b>		

**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	1.3091	7.9346	16.1570	0.0310		0.1481	0.1481		0.1481	0.1481	0.0000 8	2,897.546 8	2,897.546 8	0.1162		2,900.452 9
<b>Total</b>	<b>1.3091</b>	<b>7.9346</b>	<b>16.1570</b>	<b>0.0310</b>		<b>0.1481</b>	<b>0.1481</b>		<b>0.1481</b>	<b>0.1481</b>	<b>0.0000</b>	<b>2,897.546 8</b>	<b>2,897.546 8</b>	<b>0.1162</b>		<b>2,900.452 9</b>

## Riverwalk Phase II - San Diego County, Summer

**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	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	28,891.41 06	28,891.41 06	1.8575		28,937.84 67	
Worker	8.2160	4.2956	57.4815	0.2265	31.1750	0.1462	31.3212	8.2691	0.1345	8.4035	22,597.44 45	22,597.44 45	0.4609		22,608.96 65	
Total	10.1793	77.9471	79.3162	0.4918	38.3845	0.2267	38.6112	10.3445	0.2114	10.5559	51,488.85 51	51,488.85 51	2.3183		51,546.81 32	

**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	2,656.516 8	2,656.516 8	0.1245		2,659.630 2	
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	2,656.516 8	2,656.516 8	0.1245		2,659.630 2	

## Riverwalk Phase II - San Diego County, Summer

**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	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	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		
<b>Total</b>	<b>0.0325</b>	<b>0.0170</b>	<b>0.2272</b>	<b>9.0000e-004</b>	<b>0.1232</b>	<b>5.8000e-004</b>	<b>0.1238</b>	<b>0.0327</b>	<b>5.3000e-004</b>	<b>0.0332</b>	<b>89.3180</b>	<b>89.3180</b>	<b>1.8200e-003</b>			<b>89.3635</b>

**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	1.3845	7.1202	15.8495	0.0281		0.3306	0.3306		0.3306	0.3306	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
<b>Total</b>	<b>1.4050</b>	<b>7.1202</b>	<b>15.8495</b>	<b>0.0281</b>		<b>0.3306</b>	<b>0.3306</b>		<b>0.3306</b>	<b>0.3306</b>	<b>0.0000</b>	<b>2,656.5168</b>	<b>2,656.5168</b>	<b>0.1245</b>		<b>2,659.6302</b>

## Riverwalk Phase II - San Diego County, Summer

**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	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	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 - 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	104.2177						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	104.3485	0.8563	1.7977	2.9700e-003		0.0203	0.0203		0.0203	0.0203		281.4481	281.4481	0.0114		281.7328

## Riverwalk Phase II - San Diego County, Summer

**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	0.0000	0.0000	
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	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	4,519.488 9	4,519.488 9	0.0922			4,521.793 3	
Total	1.6432	0.8591	11.4963	0.0453	6.2350	0.0292	6.2642	1.6538	0.0269	1.6807	4,519.488 9	4,519.488 9	0.0922			4,521.793 3	

**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	104.2177						0.0000	0.0000		0.0000	0.0000		0.0000			0.0000	
Off-Road	0.1308	0.8563	1.7977	2.9700e-003		0.0203	0.0203		0.0203	0.0203	0.0000	281.4481	281.4481	0.0114		281.7328	
Total	104.3485	0.8563	1.7977	2.9700e-003		0.0203	0.0203		0.0203	0.0203	0.0000	281.4481	281.4481	0.0114		281.7328	

## Riverwalk Phase II - San Diego County, Summer

**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	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	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	4,519.488 9	4,519.488 9	0.0922			4,521.793 3
Total	1.6432	0.8591	11.4963	0.0453	6.2350	0.0292	6.2642	1.6538	0.0269	1.6807	4,519.488 9	4,519.488 9	0.0922			4,521.793 3

**3.7 Architectural Coating - 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					
Archit. Coating	104.2177						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	104.3485	0.8563	1.7977	2.9700e-003		0.0203	0.0203		0.0203	0.0203		281.4481	281.4481	0.0114		281.7328

## Riverwalk Phase II - San Diego County, Summer

**3.7 Architectural Coating - 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	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.5262	0.8048	10.9016	0.0443	6.2350	0.0272	6.2622	1.6538	0.0250	1.6788	4,418.669 5	4,418.669 5	0.0872			4,420.850 3
Total	1.5262	0.8048	10.9016	0.0443	6.2350	0.0272	6.2622	1.6538	0.0250	1.6788	4,418.669 5	4,418.669 5	0.0872			4,420.850 3

**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	104.2177						0.0000	0.0000		0.0000	0.0000		0.0000			0.0000
Off-Road	0.1308	0.8563	1.7977	2.9700e-003		0.0203	0.0203		0.0203	0.0203	0.0000	281.4481	281.4481	0.0114		281.7328
Total	104.3485	0.8563	1.7977	2.9700e-003		0.0203	0.0203		0.0203	0.0203	0.0000	281.4481	281.4481	0.0114		281.7328

## Riverwalk Phase II - San Diego County, Summer

**3.7 Architectural Coating - 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	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.5262	0.8048	10.9016	0.0443	6.2350	0.0272	6.2622	1.6538	0.0250	1.6788	4,418.669 5	4,418.669 5	0.0872		4,420.850 3	
Total	1.5262	0.8048	10.9016	0.0443	6.2350	0.0272	6.2622	1.6538	0.0250	1.6788	4,418.669 5	4,418.669 5	0.0872		4,420.850 3	

**4.0 Operational Detail - Mobile****4.1 Mitigation Measures Mobile**

Increase Density

Improve Destination Accessibility

Increase Transit Accessibility

Expand Transit Network

## Riverwalk Phase II - 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					
Mitigated	12.1512	48.1598	101.2673	0.3693	37.4519	0.2471	37.6990	10.0055	0.2293	10.2348	37,928.91 08	37,928.91 08	1.9591			37,977.88 82	
Unmitigated	15.7968	63.2316	182.3236	0.7513	82.1254	0.4692	82.5946	21.9403	0.4359	22.3761	76,956.06 21	76,956.06 21	3.5976			77,046.00 31	

**4.2 Trip Summary Information**

Land Use	Average Daily Trip Rate			Unmitigated		Mitigated	
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT	Annual VMT	Annual VMT
Apartments High Rise	10,038.00	11,902.20	8723.50	28,885,758		13,172,854	
City Park	150.73	1,814.31	1335.02	1,190,322		542,826	
Strip Mall	580.59	550.72	267.63	818,707		373,357	
Enclosed Parking with Elevator	0.00	0.00	0.00				
Parking Lot	0.00	0.00	0.00				
Total	10,769.32	14,267.24	10,326.15	30,894,788		14,089,037	

**4.3 Trip Type Information**

Land Use	Miles			Trip %			Trip Purpose %		
	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
Strip Mall	9.50	7.30	7.30	16.60	64.40	19.00	45	40	15
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

## Riverwalk Phase II - San Diego County, Summer

**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
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
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

**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	

Riverwalk Phase II - San Diego County, Summer

## 5.2 Energy by Land Use - NaturalGas

## Unmitigated

## Riverwalk Phase II - San Diego County, Summer

**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	5,722.703	5,722.703	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	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	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	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
<b>Total</b>		<b>0.5254</b>	<b>4.4906</b>	<b>1.9142</b>	<b>0.0287</b>		<b>0.3630</b>	<b>0.3630</b>		<b>0.3630</b>	<b>0.3630</b>	<b>5,732.119</b>	<b>5,732.119</b>	<b>0.1099</b>	<b>0.1051</b>		<b>5,766.182</b>
																	<b>9</b>

**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

No Hearths Installed

## Riverwalk Phase II - 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					
Mitigated	64.3191	2.2705	197.0359	0.0104		1.0948	1.0948		1.0948	1.0948	0.0000	355.8563	355.8563	0.3404	0.0000	364.3655
Unmitigated	3,721.9630	73.7001	4,712.0001	8.1903		634.1358	634.1358		634.1358	634.1358	66,374.4365	28,192.3269	94,566.7633	61.5930	5.2209	97,662.4007

## 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	6.2816					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	3,657.6440	71.4296	4,514.9642	8.1798		633.0410	633.0410		633.0410	633.0410	66,374.4365	27,836.4706	94,210.9070	61.2526	5.2209	97,298.0352
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
<b>Total</b>	<b>3,721.9630</b>	<b>73.7001</b>	<b>4,712.0000</b>	<b>8.1903</b>		<b>634.1358</b>	<b>634.1358</b>		<b>634.1358</b>	<b>634.1358</b>	<b>66,374.4365</b>	<b>28,192.3269</b>	<b>94,566.7633</b>	<b>61.5930</b>	<b>5.2209</b>	<b>97,662.4007</b>

## Riverwalk Phase II - San Diego County, Summer

**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	6.2816						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	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	
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
<b>Total</b>	<b>64.3191</b>	<b>2.2705</b>	<b>197.0359</b>	<b>0.0104</b>			<b>1.0948</b>	<b>1.0948</b>		<b>1.0948</b>	<b>1.0948</b>	<b>0.0000</b>	<b>355.8563</b>	<b>355.8563</b>	<b>0.3404</b>	<b>0.0000</b>	<b>364.3655</b>

**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**

Riverwalk Phase II - San Diego County, Summer

## 9.0 Operational Offroad

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

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### Fire Pumps and Emergency Generators

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

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
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### User Defined Equipment

Equipment Type	Number
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## 11.0 Vegetation

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## Riverwalk Phase III - San Diego County, Summer

**Riverwalk Phase III**  
**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
City Park	2.20	Acre	2.20	95,832.00	0
Strip Mall	28.60	1000sqft	0.66	28,600.00	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

**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 - San Diego County, Summer

Project Characteristics -

Land Use -

Construction Phase - Painting phase extended to reduce VOC emissions

Grading - Assumes no more than 10 acres would be graded during one workday

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

Assumes exterior finishes will not require painting

Vehicle Trips - Trip generation data modified to reflect TIA and user defined park

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

Construction Off-road Equipment Mitigation -

Mobile Land Use Mitigation -

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

Assumes exterior finishes will not require painting

Water Mitigation -

Waste Mitigation -

## Riverwalk Phase III - San Diego County, Summer

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	250.00	0.00
tblArchitecturalCoating	EF_Nonresidential_Interior	250.00	100.00
tblArchitecturalCoating	EF_Parking	250.00	100.00
tblArchitecturalCoating	EF_Residential_Interior	250.00	100.00
tblAreaCoating	Area_EF_Nonresidential_Exterior	250	0
tblAreaCoating	Area_EF_Nonresidential_Interior	250	100
tblAreaCoating	Area_EF_Parking	250	100
tblAreaMitigation	UseLowVOCPaintNonresidentialExteriorValue	0	250
tblAreaMitigation	UseLowVOCPaintNonresidentialInteriorValue	100	250
tblAreaMitigation	UseLowVOCPaintParkingCheck	False	True
tblAreaMitigation	UseLowVOCPaintParkingValue	100	250
tblConstructionPhase	NumDays	1,110.00	950.00
tblConstructionPhase	PhaseEndDate	9/3/2036	1/23/2036
tblConstructionPhase	PhaseEndDate	2/6/2036	6/27/2035
tblConstructionPhase	PhaseEndDate	5/21/2036	10/10/2035
tblConstructionPhase	PhaseStartDate	5/22/2036	10/11/2035
tblConstructionPhase	PhaseStartDate	2/7/2036	6/28/2035
tblGrading	AcresOfGrading	275.00	10.00
tblGrading	AcresOfGrading	0.00	10.00
tblGrading	MaterialImported	0.00	131,950.00
tblGrading	MaterialImported	0.00	46,650.00

**2.0 Emissions Summary**

## Riverwalk Phase III - San Diego County, Summer

**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	3.8592	35.0488	36.6477	0.1773	20.4943	0.5186	20.9607	10.5508	0.5172	11.0159	0.0000	18,369.51 82	18,369.51 82	1.1584	0.0000	18,391.54 08
2032	3.6545	34.7825	36.0416	0.1760	9.8396	0.2056	10.0452	2.6684	0.2020	2.8705	0.0000	18,244.39 65	18,244.39 65	0.8736	0.0000	18,266.23 77
2033	3.5447	34.5458	35.5225	0.1749	9.8396	0.2033	10.0429	2.6684	0.1999	2.8683	0.0000	18,137.98 92	18,137.98 92	0.8675	0.0000	18,159.67 62
2034	3.4500	34.3416	35.0191	0.1740	9.8396	0.2012	10.0408	2.6684	0.1979	2.8663	0.0000	18,048.34 00	18,048.34 00	0.8620	0.0000	18,069.89 10
2035	94.4369	33.3991	34.5451	0.1732	9.8396	0.1878	9.9811	2.6684	0.1878	2.8068	0.0000	17,973.61 33	17,973.61 33	0.8488	0.0000	17,994.83 25
2036	94.4369	0.9125	3.9300	0.0126	1.4540	0.0147	1.4687	0.3857	0.0143	0.4000	0.0000	1,245.995 8	1,245.995 8	0.0275	0.0000	1,246.683 6
Maximum	94.4369	35.0488	36.6477	0.1773	20.4943	0.5186	20.9607	10.5508	0.5172	11.0159	0.0000	18,369.51 82	18,369.51 82	1.1584	0.0000	18,391.54 08

Riverwalk Phase III - San Diego County, Summer

## **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	3.8592	35.0488	36.6477	0.1773	10.4121	0.5186	10.8785	5.0732	0.5172	5.5382	0.0000	18,369.51	18,369.51	1.1584	0.0000	18,391.54	
2032	3.6545	34.7825	36.0416	0.1760	9.8396	0.2056	10.0452	2.6684	0.2020	2.8705	0.0000	18,244.39	18,244.39	0.8736	0.0000	18,266.23	
2033	3.5447	34.5458	35.5225	0.1749	9.8396	0.2033	10.0429	2.6684	0.1999	2.8683	0.0000	18,137.98	18,137.98	0.8675	0.0000	18,159.67	
2034	3.4500	34.3416	35.0191	0.1740	9.8396	0.2012	10.0408	2.6684	0.1979	2.8663	0.0000	18,048.34	18,048.34	0.8620	0.0000	18,069.89	
2035	94.4369	33.3991	34.5451	0.1732	9.8396	0.1878	9.9811	2.6684	0.1878	2.8068	0.0000	17,973.61	17,973.61	0.8488	0.0000	17,994.83	
2036	94.4369	0.9125	3.9300	0.0126	1.4540	0.0147	1.4687	0.3857	0.0143	0.4000	0.0000	1,245.995	1,245.995	0.0275	0.0000	1,246.683	
Maximum	94.4369	35.0488	36.6477	0.1773	10.4121	0.5186	10.8785	5.0732	0.5172	5.5382	0.0000	18,369.51	18,369.51	1.1584	0.0000	18,391.54	

## Riverwalk Phase III - San Diego County, Summer

**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	23.0474	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	6,105.214 5	6,105.214 5	0.1170	0.1119	6,141.494 7	
Mobile	10.1844	45.5729	114.0231	0.4928	56.6033	0.2445	56.8477	15.1225	0.2272	15.3497	50,653.86 23	50,653.86 23	2.3974			50,713.79 62
Total	33.7914	50.6643	118.7176	0.5234	56.6033	0.6326	57.2359	15.1225	0.6153	15.7378	56,759.98 41	56,759.98 41	2.5167	0.1119	56,856.25 67	

**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	27.4719	3.2300e-003	0.3649	3.0000e-005		1.1700e-003	1.1700e-003		1.1700e-003	1.1700e-003	0.7799	0.7799	2.1300e-003			0.8330
Energy	0.5596	5.0877	4.2737	0.0305		0.3867	0.3867		0.3867	0.3867	6,105.214 5	6,105.214 5	0.1170	0.1119	6,141.494 7	
Mobile	9.7374	43.8401	104.6159	0.4457	50.7189	0.2228	50.9417	13.5504	0.2070	13.7574	45,824.14 93	45,824.14 93	2.1937			45,878.99 14
Total	37.7690	48.9310	109.2544	0.4762	50.7189	0.6107	51.3295	13.5504	0.5949	14.1453	51,930.14 37	51,930.14 37	2.3128	0.1119	52,021.31 91	

## Riverwalk Phase III - 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	N20	CO2e
Percent Reduction	-11.77	3.42	7.97	9.01	10.40	3.47	10.32	10.40	3.33	10.12	0.00	8.51	8.51	8.10	0.00	8.50

### 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	10/11/2035	1/23/2036	5	75	

Acres of Grading (Site Preparation Phase): 10

Acres of Grading (Grading Phase): 10

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

## Riverwalk Phase III - San Diego County, Summer

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Excavators	3	8.00	158	0.38
Demolition	Rubber Tired Dozers	2	8.00	247	0.40
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	2	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
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

## Riverwalk Phase III - San Diego County, Summer

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	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	4,613.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	13,047.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	883.00	382.00	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
Paving	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

Water Exposed Area

**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					
Off-Road	2.0746	9.7770	18.9168	0.0462		0.3511	0.3511		0.3511	0.3511	4,378.581 9	4,378.581 9	0.1847		4,383.200 0	
Total	2.0746	9.7770	18.9168	0.0462		0.3511	0.3511		0.3511	0.3511	4,378.581 9	4,378.581 9	0.1847		4,383.200 0	

## Riverwalk Phase III - San Diego County, Summer

**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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	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		
<b>Total</b>	<b>0.0302</b>	<b>0.0159</b>	<b>0.2155</b>	<b>8.8000e-004</b>	<b>0.1232</b>	<b>5.4000e-004</b>	<b>0.1238</b>	<b>0.0327</b>	<b>4.9000e-004</b>	<b>0.0332</b>	<b>87.3255</b>	<b>87.3255</b>	<b>1.7200e-003</b>			<b>87.3686</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.0746	9.7770	18.9168	0.0462		0.3511	0.3511		0.3511	0.3511	0.0000	4,378.5819	4,378.5819	0.1847		4,383.2000
<b>Total</b>	<b>2.0746</b>	<b>9.7770</b>	<b>18.9168</b>	<b>0.0462</b>		<b>0.3511</b>	<b>0.3511</b>		<b>0.3511</b>	<b>0.3511</b>	<b>0.0000</b>	<b>4,378.5819</b>	<b>4,378.5819</b>	<b>0.1847</b>		<b>4,383.2000</b>

## Riverwalk Phase III - San Diego County, Summer

**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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	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	0.0302	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

**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					18.3314	0.0000	18.3314	9.9593	0.0000	9.9593	0.0000	0.0000				0.0000
Off-Road	2.4399	13.6680	16.2918	0.0466		0.4367	0.4367		0.4367	0.4367	4,409.753 7	4,409.753 7	0.2176			4,415.193 6
Total	2.4399	13.6680	16.2918	0.0466	18.3314	0.4367	18.7680	9.9593	0.4367	10.3960		4,409.753 7	4,409.753 7	0.2176		4,415.193 6

## Riverwalk Phase III - San Diego County, Summer

**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	0.5234	15.7014	7.3510	0.0796	2.0151	0.0291	2.0442	0.5523	0.0278	0.5801	8,913.0011	8,913.0011	0.8407			8,934.0182
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0362	0.0191	0.2585	1.0500e-003	0.1479	6.4000e-004	0.1485	0.0392	5.9000e-004	0.0398	104.7906	104.7906	2.0700e-003			104.8423
<b>Total</b>	<b>0.5596</b>	<b>15.7205</b>	<b>7.6095</b>	<b>0.0806</b>	<b>2.1630</b>	<b>0.0297</b>	<b>2.1927</b>	<b>0.5915</b>	<b>0.0284</b>	<b>0.6199</b>	<b>9,017.7917</b>	<b>9,017.7917</b>	<b>0.8428</b>			<b>9,038.8605</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					8.2491	0.0000	8.2491	4.4817	0.0000	4.4817			0.0000			0.0000
Off-Road	2.4399	13.6680	16.2918	0.0466		0.4367	0.4367		0.4367	0.4367	0.0000	4,409.7537	4,409.7537	0.2176		4,415.1936
<b>Total</b>	<b>2.4399</b>	<b>13.6680</b>	<b>16.2918</b>	<b>0.0466</b>	<b>8.2491</b>	<b>0.4367</b>	<b>8.6858</b>	<b>4.4817</b>	<b>0.4367</b>	<b>4.9184</b>	<b>0.0000</b>	<b>4,409.7537</b>	<b>4,409.7537</b>	<b>0.2176</b>		<b>4,415.1936</b>

## Riverwalk Phase III - San Diego County, Summer

**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	0.5234	15.7014	7.3510	0.0796	2.0151	0.0291	2.0442	0.5523	0.0278	0.5801	8,913.0011	8,913.0011	0.8407			8,934.0182
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0362	0.0191	0.2585	1.0500e-003	0.1479	6.4000e-004	0.1485	0.0392	5.9000e-004	0.0398	104.7906	104.7906	2.0700e-003			104.8423
Total	0.5596	15.7205	7.6095	0.0806	2.1630	0.0297	2.1927	0.5915	0.0284	0.6199	9,017.7917	9,017.7917	0.8428			9,038.8605

**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					6.1185	0.0000	6.1185	3.3206	0.0000	3.3206			0.0000			0.0000
Off-Road	3.2807	13.8462	23.0239	0.0699		0.4879	0.4879		0.4879	0.4879	7,213.1086	7,213.1086	0.2915			7,220.3963
Total	3.2807	13.8462	23.0239	0.0699	6.1185	0.4879	6.6064	3.3206	0.4879	3.8086	7,213.1086	7,213.1086	0.2915			7,220.3963

## Riverwalk Phase III - San Diego County, Summer

**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	0.5383	16.1485	7.5603	0.0819	2.0725	0.0299	2.1024	0.5680	0.0286	0.5966	9,166.815 2	9,166.815 2	0.8646			9,188.430 7
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	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
<b>Total</b>	<b>0.5785</b>	<b>16.1697</b>	<b>7.8475</b>	<b>0.0830</b>	<b>2.2368</b>	<b>0.0306</b>	<b>2.2674</b>	<b>0.6116</b>	<b>0.0293</b>	<b>0.6408</b>	<b>9,283.249 1</b>	<b>9,283.249 1</b>	<b>0.8669</b>			<b>9,304.922 2</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					2.7533	0.0000	2.7533	1.4943	0.0000	1.4943			0.0000			0.0000
Off-Road	3.2807	13.8462	23.0239	0.0699		0.4879	0.4879		0.4879	0.4879	0.0000	7,213.108 6	7,213.108 6	0.2915		7,220.396 3
<b>Total</b>	<b>3.2807</b>	<b>13.8462</b>	<b>23.0239</b>	<b>0.0699</b>	<b>2.7533</b>	<b>0.4879</b>	<b>3.2413</b>	<b>1.4943</b>	<b>0.4879</b>	<b>1.9822</b>	<b>0.0000</b>	<b>7,213.108 6</b>	<b>7,213.108 6</b>	<b>0.2915</b>		<b>7,220.396 3</b>

## Riverwalk Phase III - San Diego County, Summer

**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	0.5383	16.1485	7.5603	0.0819	2.0725	0.0299	2.1024	0.5680	0.0286	0.5966	9,166.815 2	9,166.815 2	0.8646			9,188.430 7
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	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	0.5785	16.1697	7.8475	0.0830	2.2368	0.0306	2.2674	0.6116	0.0293	0.6408	9,283.249 1	9,283.249 1	0.8669			9,304.922 2

**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	1.3091	7.9346	16.1570	0.0310		0.1481	0.1481		0.1481	0.1481	2,897.546 8	2,897.546 8	0.1162			2,900.452 9
Total	1.3091	7.9346	16.1570	0.0310		0.1481	0.1481		0.1481	0.1481	2,897.546 8	2,897.546 8	0.1162			2,900.452 9

## Riverwalk Phase III - San Diego County, Summer

**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	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	10,331.411 3	10,331.41 13	0.6632			10,347.99 07
Worker	1.7755	0.9363	12.6826	0.0515	7.2536	0.0316	7.2853	1.9240	0.0291	1.9531	5,140.560 1	5,140.560 1	0.1015			5,143.097 2
Total	2.4720	27.1142	20.4907	0.1463	9.8396	0.0601	9.8996	2.6684	0.0563	2.7247	15,471.97 14	15,471.97 14	0.7647			15,491.08 79

**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	1.3091	7.9346	16.1570	0.0310		0.1481	0.1481		0.1481	0.1481	0.0000 8	2,897.546 8	2,897.546 8	0.1162		2,900.452 9
Total	1.3091	7.9346	16.1570	0.0310		0.1481	0.1481		0.1481	0.1481	0.0000 8	2,897.546 8	2,897.546 8	0.1162		2,900.452 9

## Riverwalk Phase III - San Diego County, Summer

**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	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	10,331.411 3	10,331.41 13	0.6632			10,347.99 07	
Worker	1.7755	0.9363	12.6826	0.0515	7.2536	0.0316	7.2853	1.9240	0.0291	1.9531	5,140.560 1	5,140.560 1	0.1015			5,143.097 2	
Total	2.4720	27.1142	20.4907	0.1463	9.8396	0.0601	9.8996	2.6684	0.0563	2.7247		15,471.97 14	15,471.97 14	0.7647			15,491.08 79

**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	1.3091	7.9346	16.1570	0.0310		0.1481	0.1481		0.1481	0.1481	2,897.546 8	2,897.546 8	0.1162			2,900.452 9	
Total	1.3091	7.9346	16.1570	0.0310		0.1481	0.1481		0.1481	0.1481		2,897.546 8	2,897.546 8	0.1162			2,900.452 9

## Riverwalk Phase III - San Diego County, Summer

**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	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	10,308.06 45	10,308.06 45	0.6606			10,324.58 05
Worker	1.6550	0.8837	12.0868	0.0505	7.2536	0.0295	7.2831	1.9240	0.0271	1.9511	5,038.785 2	5,038.785 2	0.0968			5,041.204 3
<b>Total</b>	<b>2.3453</b>	<b>26.8478</b>	<b>19.8846</b>	<b>0.1450</b>	<b>9.8396</b>	<b>0.0575</b>	<b>9.8971</b>	<b>2.6684</b>	<b>0.0539</b>	<b>2.7223</b>	<b>15,346.84 97</b>	<b>15,346.84 97</b>	<b>0.7574</b>			<b>15,365.78 48</b>

**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	1.3091	7.9346	16.1570	0.0310		0.1481	0.1481		0.1481	0.1481	0.0000 8	2,897.546 8	2,897.546 8	0.1162		2,900.452 9
<b>Total</b>	<b>1.3091</b>	<b>7.9346</b>	<b>16.1570</b>	<b>0.0310</b>		<b>0.1481</b>	<b>0.1481</b>		<b>0.1481</b>	<b>0.1481</b>	<b>0.0000</b>	<b>2,897.546 8</b>	<b>2,897.546 8</b>	<b>0.1162</b>		<b>2,900.452 9</b>

## Riverwalk Phase III - San Diego County, Summer

**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	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	10,308.06 45	10,308.06 45	0.6606			10,324.58 05
Worker	1.6550	0.8837	12.0868	0.0505	7.2536	0.0295	7.2831	1.9240	0.0271	1.9511	5,038.785 2	5,038.785 2	0.0968			5,041.204 3
Total	2.3453	26.8478	19.8846	0.1450	9.8396	0.0575	9.8971	2.6684	0.0539	2.7223	15,346.84 97	15,346.84 97	0.7574			15,365.78 48

**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	1.3091	7.9346	16.1570	0.0310		0.1481	0.1481		0.1481	0.1481	2,897.546 8	2,897.546 8	0.1162			2,900.452 9
Total	1.3091	7.9346	16.1570	0.0310		0.1481	0.1481		0.1481	0.1481	2,897.546 8	2,897.546 8	0.1162			2,900.452 9

## Riverwalk Phase III - San Diego County, Summer

**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	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	10,289.29 58	10,289.29 58	0.6585		10,305.75 91	
Worker	1.5497	0.8391	11.5721	0.0496	7.2536	0.0275	7.2811	1.9240	0.0253	1.9493	4,951.146 6	4,951.146 6	0.0927		4,953.464 3	
<b>Total</b>	<b>2.2356</b>	<b>26.6112</b>	<b>19.3655</b>	<b>0.1439</b>	<b>9.8396</b>	<b>0.0552</b>	<b>9.8948</b>	<b>2.6684</b>	<b>0.0517</b>	<b>2.7202</b>	<b>15,240.44 24</b>	<b>15,240.44 24</b>	<b>0.7512</b>		<b>15,259.22 34</b>	

**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	1.3091	7.9346	16.1570	0.0310		0.1481	0.1481		0.1481	0.1481	0.0000 8	2,897.546 8	2,897.546 8	0.1162		2,900.452 9
<b>Total</b>	<b>1.3091</b>	<b>7.9346</b>	<b>16.1570</b>	<b>0.0310</b>		<b>0.1481</b>	<b>0.1481</b>		<b>0.1481</b>	<b>0.1481</b>	<b>0.0000</b>	<b>2,897.546 8</b>	<b>2,897.546 8</b>	<b>0.1162</b>		<b>2,900.452 9</b>

## Riverwalk Phase III - San Diego County, Summer

**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	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	10,289.29 58	10,289.29 58	0.6585		10,305.75 91		
Worker	1.5497	0.8391	11.5721	0.0496	7.2536	0.0275	7.2811	1.9240	0.0253	1.9493	4,951.146 6	4,951.146 6	0.0927		4,953.464 3		
Total	2.2356	26.6112	19.3655	0.1439	9.8396	0.0552	9.8948	2.6684	0.0517	2.7202	15,240.44 24	15,240.44 24	0.7512		15,259.22 34		

**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	1.3091	7.9346	16.1570	0.0310		0.1481	0.1481		0.1481	0.1481	2,897.546 8	2,897.546 8	0.1162		2,900.452 9		
Total	1.3091	7.9346	16.1570	0.0310		0.1481	0.1481		0.1481	0.1481	2,897.546 8	2,897.546 8	0.1162		2,900.452 9		

## Riverwalk Phase III - San Diego County, Summer

**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	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	10,275.15 93	10,275.15 93	0.6570			10,291.58 36
Worker	1.4588	0.8015	11.0772	0.0488	7.2536	0.0257	7.2793	1.9240	0.0236	1.9476	4,875.634 0	4,875.634 0	0.0888			4,877.854 5
<b>Total</b>	<b>2.1409</b>	<b>26.4070</b>	<b>18.8621</b>	<b>0.1430</b>	<b>9.8396</b>	<b>0.0530</b>	<b>9.8926</b>	<b>2.6684</b>	<b>0.0497</b>	<b>2.7182</b>	<b>15,150.79 32</b>	<b>15,150.79 32</b>	<b>0.7458</b>			<b>15,169.43 81</b>

**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	1.3091	7.9346	16.1570	0.0310		0.1481	0.1481		0.1481	0.1481	0.0000 8	2,897.546 8	2,897.546 8	0.1162		2,900.452 9
<b>Total</b>	<b>1.3091</b>	<b>7.9346</b>	<b>16.1570</b>	<b>0.0310</b>		<b>0.1481</b>	<b>0.1481</b>		<b>0.1481</b>	<b>0.1481</b>	<b>0.0000</b>	<b>2,897.546 8</b>	<b>2,897.546 8</b>	<b>0.1162</b>		<b>2,900.452 9</b>

## Riverwalk Phase III - San Diego County, Summer

**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	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	10,275.15 93	10,275.15 93	0.6570			10,291.58 36
Worker	1.4588	0.8015	11.0772	0.0488	7.2536	0.0257	7.2793	1.9240	0.0236	1.9476	4,875.634 0	4,875.634 0	0.0888			4,877.854 5
Total	2.1409	26.4070	18.8621	0.1430	9.8396	0.0530	9.8926	2.6684	0.0497	2.7182	15,150.79 32	15,150.79 32	0.7458			15,169.43 81

**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	1.2168	7.1613	16.1178	0.0310		0.0904	0.0904		0.0904	0.0904	2,897.546 8	2,897.546 8	0.1079			2,900.244 8
Total	1.2168	7.1613	16.1178	0.0310		0.0904	0.0904		0.0904	0.0904	2,897.546 8	2,897.546 8	0.1079			2,900.244 8

## Riverwalk Phase III - San Diego County, Summer

**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	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	10,264.22 68	10,264.22 68	0.6555		10,280.61 38		
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	4,811.8398 4,811.8398	0.0854		4,813.973 9		
Total	2.0591	26.2378	18.4274	0.1422	9.8396	0.0511	9.8907	2.6684	0.0480	2.7164	15,076.06 66	15,076.06 66	0.7409		15,094.58 77		

**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	1.2168	7.1613	16.1178	0.0310			0.0904	0.0904		0.0904	0.0904 8	2,897.546 8	2,897.546 8	0.1079		2,900.244 8	
Total	1.2168	7.1613	16.1178	0.0310			0.0904	0.0904		0.0904	0.0904 8	2,897.546 8	2,897.546 8	0.1079		2,900.244 8	

## Riverwalk Phase III - San Diego County, Summer

**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	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	10,264.22 68	10,264.22 68	0.6555			10,280.61 38
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	4,811.8398 4,811.8398	0.0854			4,813.973 9
Total	2.0591	26.2378	18.4274	0.1422	9.8396	0.0511	9.8907	2.6684	0.0480	2.7164	15,076.06 66	15,076.06 66	0.7409			15,094.58 77

**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	2,656.516 8	2,656.516 8	0.1022			2,659.072 7
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	2,656.516 8	2,656.516 8	0.1022			2,659.072 7

## Riverwalk Phase III - San Diego County, Summer

**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	0.0000	0.0000	
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	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			
<b>Total</b>	<b>0.0235</b>	<b>0.0131</b>	<b>0.1810</b>	<b>8.2000e-004</b>	<b>0.1232</b>	<b>4.1000e-004</b>	<b>0.1236</b>	<b>0.0327</b>	<b>3.8000e-004</b>	<b>0.0331</b>		<b>81.7413</b>	<b>81.7413</b>	<b>1.4500e-003</b>		<b>81.7776</b>	

**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	1.1405	4.8761	15.8203	0.0281		0.1874	0.1874		0.1874	0.1874	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			0.0000
<b>Total</b>	<b>1.1702</b>	<b>4.8761</b>	<b>15.8203</b>	<b>0.0281</b>		<b>0.1874</b>	<b>0.1874</b>		<b>0.1874</b>	<b>0.1874</b>	<b>0.0000</b>	<b>2,656.5168</b>	<b>2,656.5168</b>	<b>0.1022</b>		<b>2,659.0726</b>

## Riverwalk Phase III - San Diego County, Summer

**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	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	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 - 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	94.0423						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	94.1602	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

## Riverwalk Phase III - San Diego County, Summer

**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	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	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
<b>Total</b>	<b>0.2767</b>	<b>0.1548</b>	<b>2.1357</b>	<b>9.6600e-003</b>	<b>1.4540</b>	<b>4.8200e-003</b>	<b>1.4588</b>	<b>0.3857</b>	<b>4.4400e-003</b>	<b>0.3901</b>		<b>964.5477</b>	<b>964.5477</b>	<b>0.0171</b>		<b>964.9755</b>

**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	94.0423						0.0000	0.0000		0.0000	0.0000		0.0000			0.0000
Off-Road	0.1179	0.7577	1.7943	2.9700e-003		9.9000e-003	9.9000e-003		9.9000e-003	9.9000e-003	0.0000	281.4481	281.4481	0.0104		281.7081
<b>Total</b>	<b>94.1602</b>	<b>0.7577</b>	<b>1.7943</b>	<b>2.9700e-003</b>		<b>9.9000e-003</b>	<b>9.9000e-003</b>		<b>9.9000e-003</b>	<b>9.9000e-003</b>	<b>0.0000</b>	<b>281.4481</b>	<b>281.4481</b>	<b>0.0104</b>		<b>281.7081</b>

## Riverwalk Phase III - San Diego County, Summer

**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	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	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
<b>Total</b>	<b>0.2767</b>	<b>0.1548</b>	<b>2.1357</b>	<b>9.6600e-003</b>	<b>1.4540</b>	<b>4.8200e-003</b>	<b>1.4588</b>	<b>0.3857</b>	<b>4.4400e-003</b>	<b>0.3901</b>		<b>964.5477</b>	<b>964.5477</b>	<b>0.0171</b>		<b>964.9755</b>

**3.7 Architectural Coating - 2036****Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	94.0423						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
<b>Total</b>	<b>94.1602</b>	<b>0.7577</b>	<b>1.7943</b>	<b>2.9700e-003</b>		<b>9.9000e-003</b>	<b>9.9000e-003</b>		<b>9.9000e-003</b>	<b>9.9000e-003</b>		<b>281.4481</b>	<b>281.4481</b>	<b>0.0104</b>		<b>281.7081</b>

## Riverwalk Phase III - San Diego County, Summer

**3.7 Architectural Coating - 2036****Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.2767	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
<b>Total</b>	<b>0.2767</b>	<b>0.1548</b>	<b>2.1357</b>	<b>9.6600e-003</b>	<b>1.4540</b>	<b>4.8200e-003</b>	<b>1.4588</b>	<b>0.3857</b>	<b>4.4400e-003</b>	<b>0.3901</b>		<b>964.5477</b>	<b>964.5477</b>	<b>0.0171</b>		<b>964.9755</b>

**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	94.0423						0.0000	0.0000		0.0000	0.0000		0.0000			0.0000
Off-Road	0.1179	0.7577	1.7943	2.9700e-003		9.9000e-003	9.9000e-003		9.9000e-003	9.9000e-003	0.0000	281.4481	281.4481	0.0104		281.7081
<b>Total</b>	<b>94.1602</b>	<b>0.7577</b>	<b>1.7943</b>	<b>2.9700e-003</b>		<b>9.9000e-003</b>	<b>9.9000e-003</b>		<b>9.9000e-003</b>	<b>9.9000e-003</b>	<b>0.0000</b>	<b>281.4481</b>	<b>281.4481</b>	<b>0.0104</b>		<b>281.7081</b>

## Riverwalk Phase III - San Diego County, Summer

**3.7 Architectural Coating - 2036****Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.2767	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
<b>Total</b>	<b>0.2767</b>	<b>0.1548</b>	<b>2.1357</b>	<b>9.6600e-003</b>	<b>1.4540</b>	<b>4.8200e-003</b>	<b>1.4588</b>	<b>0.3857</b>	<b>4.4400e-003</b>	<b>0.3901</b>		<b>964.5477</b>	<b>964.5477</b>	<b>0.0171</b>		<b>964.9755</b>

**4.0 Operational Detail - Mobile****4.1 Mitigation Measures Mobile**

Increase Density

Increase Transit Accessibility

Expand Transit Network

## Riverwalk Phase III - 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				
Mitigated	9.7374	43.8401	104.6159	0.4457	50.7189	0.2228	50.9417	13.5504	0.2070	13.7574	45,824.14 93	45,824.14 93	2.1937		45,878.99 14		
Unmitigated	10.1844	45.5729	114.0231	0.4928	56.6033	0.2445	56.8477	15.1225	0.2272	15.3497	50,653.86 23	50,653.86 23	2.3974		50,713.79 62		

**4.2 Trip Summary Information**

Land Use	Average Daily Trip Rate			Unmitigated		Mitigated	
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT	Annual VMT	Annual VMT
City Park	4.16	50.05	36.83	32,836		29,423	
General Office Building	10,313.05	2,300.10	981.75	18,724,430		16,777,863	
Strip Mall	1,267.55	1,202.34	584.30	1,787,407		1,601,590	
Enclosed Parking with Elevator	0.00	0.00	0.00				
Parking Lot	0.00	0.00	0.00				
Total	11,584.76	3,552.49	1,602.88	20,544,674		18,408,876	

**4.3 Trip Type Information**

Land Use	Miles			Trip %			Trip Purpose %		
	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
General Office Building	9.50	7.30	7.30	33.00	48.00	19.00	77	19	4
Strip Mall	9.50	7.30	7.30	16.60	64.40	19.00	45	40	15
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

## Riverwalk Phase III - San Diego County, Summer

**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
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
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
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
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

**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	6,105.214 5	6,105.214 5	0.1170	0.1119	6,141.494 7	
NaturalGas Unmitigated	0.5596	5.0877	4.2737	0.0305		0.3867	0.3867		0.3867	0.3867	6,105.214 5	6,105.214 5	0.1170	0.1119	6,141.494 7	

## Riverwalk Phase III - San Diego County, Summer

**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		6,084.657 5	6,084.657 5	0.1166	0.1116	6,120.815 6
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
<b>Total</b>		<b>0.5596</b>	<b>5.0877</b>	<b>4.2737</b>	<b>0.0305</b>		<b>0.3867</b>	<b>0.3867</b>		<b>0.3867</b>	<b>0.3867</b>		<b>6,105.214 5</b>	<b>6,105.214 5</b>	<b>0.1170</b>	<b>0.1119</b>	<b>6,141.494 7</b>

## Riverwalk Phase III - San Diego County, Summer

**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		6,084.657 5	6,084.657 5	0.1166	0.1116	6,120.815 6
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
<b>Total</b>		<b>0.5596</b>	<b>5.0877</b>	<b>4.2737</b>	<b>0.0305</b>		<b>0.3867</b>	<b>0.3867</b>		<b>0.3867</b>	<b>0.3867</b>		<b>6,105.214 5</b>	<b>6,105.214 5</b>	<b>0.1170</b>	<b>0.1119</b>	<b>6,141.494 7</b>

**6.0 Area Detail****6.1 Mitigation Measures Area**

Use Electric Lawnmower

Use Electric Leafblower

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

No Hearths Installed

## Riverwalk Phase III - 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					
Mitigated	27.4719	3.2300e-003	0.3649	3.0000e-005		1.1700e-003	1.1700e-003		1.1700e-003	1.1700e-003	0.7799	0.7799	2.1300e-003		0.8330		
Unmitigated	23.0474	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	1.9324					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
<b>Total</b>	<b>23.0474</b>	<b>3.7800e-003</b>	<b>0.4209</b>	<b>3.0000e-005</b>		<b>1.4900e-003</b>	<b>1.4900e-003</b>		<b>1.4900e-003</b>	<b>1.4900e-003</b>		<b>0.9073</b>	<b>0.9073</b>	<b>2.3400e-003</b>		<b>0.9658</b>

## Riverwalk Phase III - San Diego County, Summer

**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	6.3605						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	0.0349	3.2300e-003	0.3649	3.0000e-005		1.1700e-003	1.1700e-003		1.1700e-003	1.1700e-003		0.7799	0.7799	2.1300e-003		0.8330
<b>Total</b>	<b>27.4719</b>	<b>3.2300e-003</b>	<b>0.3649</b>	<b>3.0000e-005</b>		<b>1.1700e-003</b>	<b>1.1700e-003</b>		<b>1.1700e-003</b>	<b>1.1700e-003</b>		<b>0.7799</b>	<b>0.7799</b>	<b>2.1300e-003</b>		<b>0.8330</b>

**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**

Institute Recycling and Composting Services

Riverwalk Phase III - San Diego County, Summer

## 9.0 Operational Offroad

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

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### Fire Pumps and Emergency Generators

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

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
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### User Defined Equipment

Equipment Type	Number
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## 11.0 Vegetation

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