

AIR QUALITY ASSESSMENT

**Ocean Breeze Residential Development
PDS2015-MPA-15-011
County of San Diego, CA**

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LIST OF COMMON ACRONYMS

Air Quality Impact Assessments (AQIA)
Assembly Bill 32 (AB32)
California Air Resource Board (CARB)
California Ambient Air Quality Standards (CAAQS)
California Environmental Quality Act (CEQA)
Carbon Dioxide (CO₂)
Cubic Yards (CY)
Diesel Particulate Matter (DPM)
Environmental Protection Agency (EPA)
EPA Office of Air Quality Planning and Standards (OAQPS)
Hazardous Air Pollutants (HAPs)
Hydrogen Sulfide (H₂S)
International Residential Code (IRC)
Level of Service (LOS)
Low Carbon Fuel Standard (LCFS)
Methane (CH₄)
National ambient air quality standards (NAAQS)
Nitrous Oxide (N₂O)
North County Transit District (NCTD)
Reactive Organic Gas (ROG)
Regional Air Quality Strategy (RAQS)
San Diego Air Basin (SDAB)
San Diego Air Pollution Control District (SDAPCD)
South Coast Air Quality Management District (SCAQMD)
State Implementation Plan (SIP)
Toxic Air Contaminants (TACs)
Vehicle Miles Traveled (VMT)

EXECUTIVE SUMMARY

This air quality impact study has been completed to determine the air quality impacts associated with the development of the proposed project.

The Project known as "Ocean Breeze Ranch" envisions providing a total of 396 single-family residential units including 381 single-family detached small lots and 15 estate sized single-family lots and would build local parks and set aside approximately 833 acres for biological preservation and conservation along with approximately 10 acres of right-of-way dedication along West Lilac Road and a 30 acre vacant remainder parcel. The project also seeks to obtain a Major Use Permit (MUP) for an existing equestrian facility has been operational since about 1980 and is considered part of the baseline conditions. The existing facility is an estimated 375 acres, the proposed MUP would reduce the size of the operations to approximately 203 acres and would require some improvements to include permitting additional horse shade structures, a horse aquatic therapy pool, relocating employee manufactured homes and as well as an equipment maintenance shop. The equestrian facility would also make road improvements to bring the existing facility up to code with County road and fire code requirements. All improvements are proposed within the existing footprint of the equestrian facility and no expansion of the overall footprint, or increase in intensity of use, is proposed. Since the equestrian facility is an existing use and intensity is not increasing, the proposed modifications would be allowed under CEQA without further analysis.

The Project is located at 5820 West Lilac Road, south of State Highway 76, and approximately 1-mile west of Interstate 15. The Project is located in the northern portion of the unincorporated community of Bonsall in north San Diego County, CA.

All construction phases of the proposed Project are anticipated to start in 2022 and completion is expected in 2029 with full operations in 2030. The proposed Project will utilize Tier 3 or better construction equipment with diesel particulate filters (DPF) during construction.

Project design features (PDFs) have been included in this Project. The applicant has agreed to implement all PDFs and will be included in the Project's Conditions of Approval. The following PDFs applied in this analysis with the purpose of reducing air emissions include.

- Project-related construction activities would use Tier 3 or better construction equipment with DPF United States (U.S.) Environmental Protection Agency (EPA)/ California Air Resources Board (CARB)-certified construction equipment with diesel particulate filters. The Project developer has confirmed commitment to this feature.
- The Project will utilize architectural coatings compliant with San Diego Air Pollution Control District (SDAPCD) Rule 67 (SDAPCD, 2015).

- As a design feature, the proposed project would utilize no more than 6 tons of ammonium nitrate daily during any particular blast and would not blast an area greater than 20,000 SF per day.
- The Project will provide disclosures to future residents that the existing Equestrian Facility operations may cause agricultural odors typical of equestrian uses.
- Install high-efficiency Light Emitting Diode (LED) street and area lighting to achieve reduction in overall lighting energy.
- The Project will only install Natural Gas fireplaces within all 396 residential units.
- In accordance with the California Integrated Waste Management Act (AB 939), and to be consistent with AB 341's statewide 75% diversion policy, the project will seek to also achieve a 75% diversion goal by providing areas for storage and collection of recyclables and provide literature promoting recycling to achieve additional waste diversion.
- The Project applicant will be required to comply with County's Water Conservation in Landscaping Ordinance and demonstrates a 40% reduction in outdoor use, and will submit a Landscape Document Package to show such compliance. A 20% reduction was assumed within emissions modeling to be conservative
- Install low flow indoor water fixtures in all residential units.
- Plumb and install a single Level 2 electric vehicle (EV) charging station in each of the 396 residential units.
- The Project will install 1,973 KW of PV which is equivalent to 6,577 300-watt panels or an average of 16.6 panels per home.

All construction phases of the proposed Project are anticipated to start in 2022 and full buildout is expected in 2029 with full operations expected in 2030. As identified above, the proposed project is committed to using Tier 3 or better equipment with DPF attached which would minimize health risk impacts to less than 10 in one million exposed.

The only source of odors during construction would be from temporary construction equipment or paving equipment. Since odors would-be short-term events, a less than significant odor impact is expected during construction.

The proposed project site has an existing equestrian use which will continue to operate as a separate facility. These equestrian activities will generate equestrian odors which cannot be avoided. Each residential unit sold within the project site will require full disclosure in perpetuity of any equestrian activities adjacent to the project site. The equestrian use currently follows all applicable odor and vector control guidance by both San Diego Air Pollution Control District and the County of San Diego and will continue throughout the Ocean Breeze Ranch project life. Additionally, it should be noted that residential uses are not typically considered odor generators.

Based upon the analysis of construction and operation activities for the proposed project, direct operational or direct construction impacts would not be expected. The proposed project would generate less than significant cumulative impacts.

The Project property has multiple zoning and land use designations and the proposed project would be consistent with overall densities allowed by the General Plan for the site. The Project seeks a major use permit for the residential uses and one for the equestrian uses which will formalize the operational requirements for each set of uses. The Project's overall buildout is 396 residential units which is consistent with the existing General Plan Land Use Designations allowing up to 402 units. Additionally, pursuant to the County's Zoning Ordinance, a Planned Development may propose a project with lot sizes and criteria different from the underlying zoning, in order to preserve natural resources. This project meets that definition, and seeks approval of a Major Use Permit to authorize the proposed site plan.

The environmental impact report for the General Plan analyzed the impacts of all growth projected under the General Plan. The project is consistent with all applicable General Plan policies and has been designed to implement all applicable General Plan mitigation measures related to air quality. Because the project is consistent with the projected growth of the General Plan and with the applicable General Plan air quality policies and mitigation measures, the project will not result in a significant cumulative impact to air quality. Therefore, the project would be consistent with the Regional Air Quality Strategy (RAQS) and State Implementation Plan (SIP).

1.0 INTRODUCTION

1.1 Purpose of this Study

The purpose of this Air Quality study is to determine potential air quality impacts (if any) that may be created by construction, area, or operational emissions (short term or long term) from the proposed Project. Should impacts be determined, the intent of this study would be to recommend suitable mitigation measures to reduce impacts to the extent feasible.

1.2 Project Location

The Ocean Breeze Ranch Project (Project) is a proposed residential community located in north San Diego County, in the unincorporated community of Bonsall. The property consists of 1,402.52 acres and is located at 5820 West Lilac Road, south of State Highway 76 and the San Luis Rey River, and west of Old Highway 395 and the Interstate 15 freeway. A general Project vicinity map is shown in Figure 1-A of this report.

1.3 Project Description

The Project envisions providing 396 single-family detached lots of which 15 lots will be estate-sized or 5-acres or larger lots. The Project proposes a Tentative Map to develop approximately 312 acres of the site for residential uses which would include approximately 16 acres of local parks which would be designed for use by the development and the public. Additionally, the Project proposes to dedicate and conserve approximately 833 acres for biological preservation on-site along with approximately 10 acres of right-of-way dedication along West Lilac Road and a 30 acre vacant remainder parcel. The proposed Project would include the demolition of a small home and a barn that are roughly 6,000 square feet (SF) combined. The Project site plan is shown in Figure 1-B.

The project would also include a privately-owned equestrian facility on approximately 203 acres. The equestrian facility is an existing use occupying 375 acres. The equestrian facility would be formalized going forward by way of an MUP which would both allow the existing uses as well as permitting additional facilities: horse shade structures, a horse aquatic therapy pool, relocated employee manufactured home, and a relocated equipment maintenance shop. Improvements will be necessary to selected internal existing roads, in order to establish fire/emergency access routes meeting county fire code requirements. The proposed Project would include the preservation and continued use of the five residential units, two mobile homes, barns, and various accessory buildings existing on-site. All improvements are proposed within an area smaller than the existing footprint of the

equestrian facility and no expansion of the overall footprint, or increase in intensity of use, is proposed.

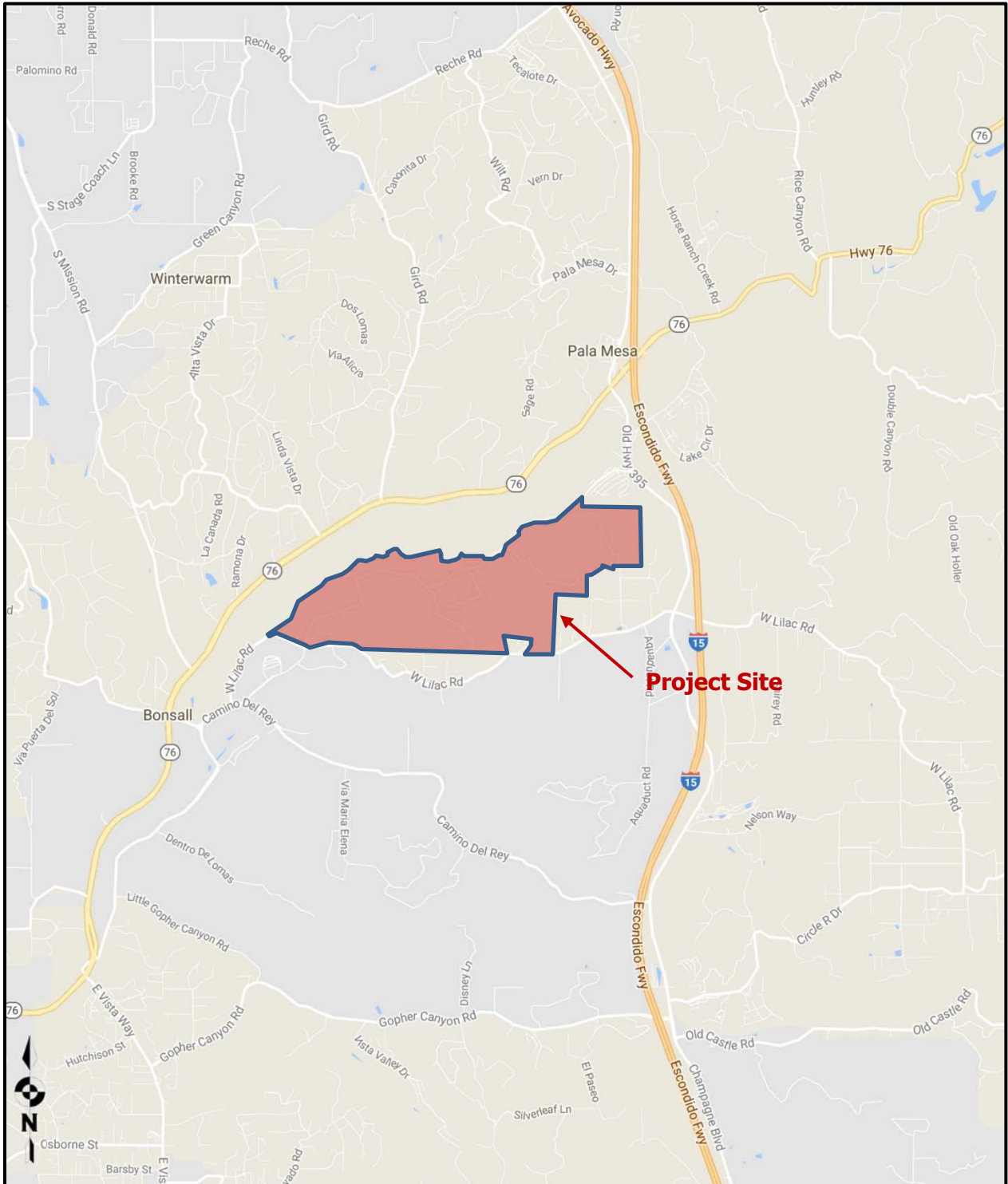
Construction of the Project would be expected to begin in 2022 with completion expected in 2029. The first full year of operations is expected in 2030. (The project would also require some blasting-related activities; as such, the project's air quality study estimated the criteria air pollutants associated with blasting. Of relevance to this analysis, blasting-related activities would utilize ammonium nitrate with fuel oil (ANFO) based explosives. When ANFO detonates, the blast would produce both CO and NOx (EPA, 1995).

1.4 Project Design Features

Project design features (PDFs) have been incorporated into the Project to reduce emissions associated with construction, energy use, area sources and water demand. The project would include numerous PDFs that would reduce air emissions though not all are included within the air quality modeling software due to limitations of the software. Given this, PDFs are broken out to include the following within this analysis. Since these specific PDFs are shown in modeling software, they shall therefore be considered a condition to approval by the County.

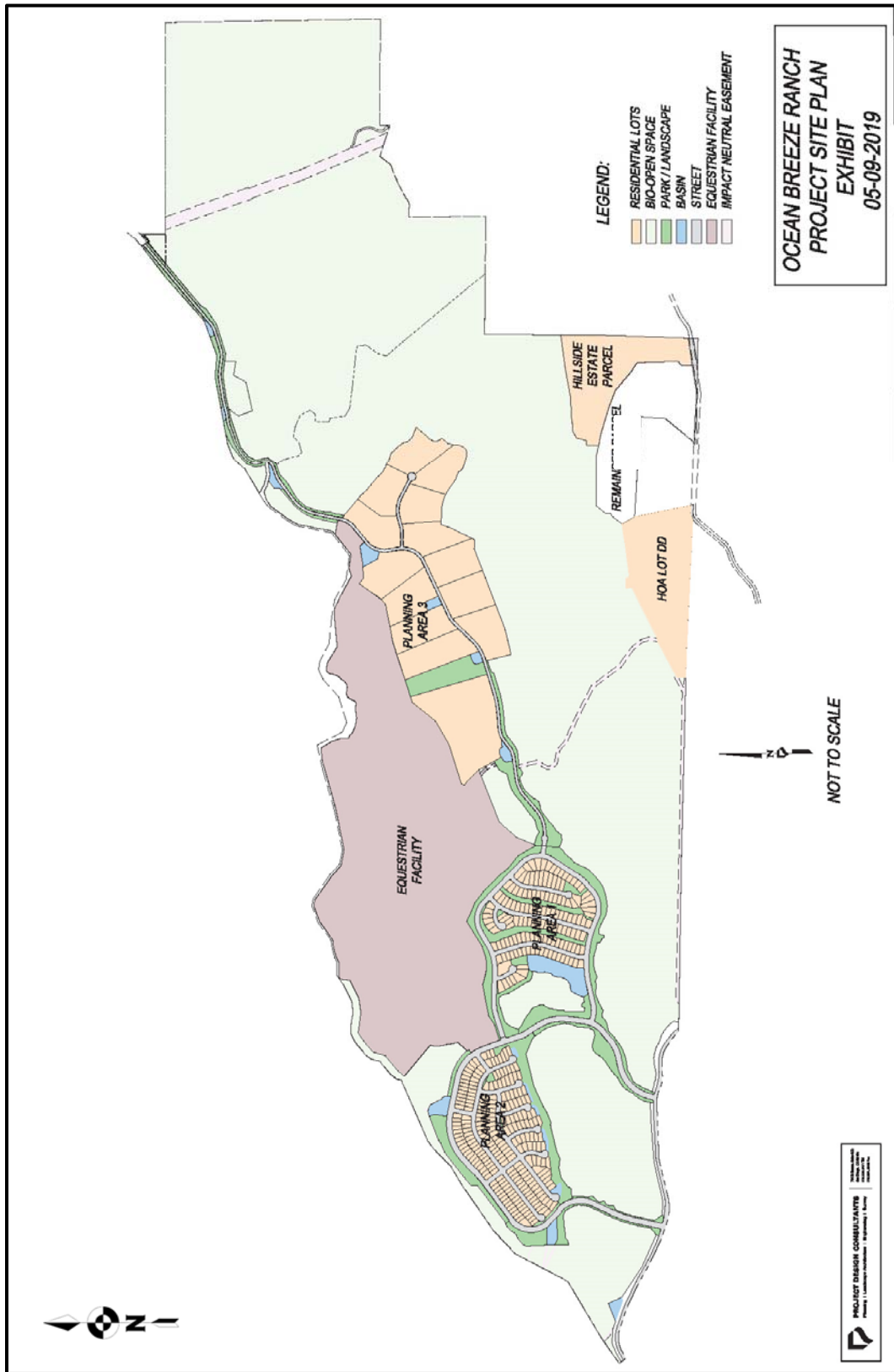
- Project-related construction activities were assumed to use Tier 3 or better United States (U.S.) Environmental Protection Agency (EPA)/ California Air Resources Board (CARB)-certified construction equipment with DPF and was modeled as such within this analysis.
- As a design feature, the proposed project would utilize no more than 6 tons of ammonium nitrate per blast and would not blast an area greater than 20,000 SF per day.
- The Project will only install Natural Gas fireplaces within all 396 residential units.
- The Project will provide disclosures to future residents that the existing Equestrian Facility operations may cause agricultural odors typical of equestrian uses.
- The project will utilize architectural coatings compliant with San Diego Air Pollution Control District (SDAPCD) Rule 67 (SDAPCD, 2015).

Figure 1-A: Project Vicinity Map



Source: (Google, 2018)

Figure 1-B: Proposed Project Site Layout



Source: (Project Design Consultants, 2019)

The project will also install PDFs geared to reduce greenhouse gas emissions which will not significantly reduce project operational air quality emissions and are not quantified or further discussed within this report. It should be noted that these design features are for informational purposes to this air quality report only since modeling results would not be dependent on installation of these PDFs.

- Installation of solar/photovoltaic system on each dwelling unit within the Project.
- Landscaped and screened parking areas consistent with the County's Parking Design Manual, including Section 7 (Landscaping) and the "cool parking" mitigation requirements identified by the CARB.
- Plumb and install every residential unit with a Level 2 electric vehicle (EV) charging station.
- Building efficiency features such as High-Efficiency HVAC system, tankless water heaters and Low E dual pane windows.
- Incorporate into Project Covenants, Conditions & Restrictions (CC&Rs) requirements that the HOA coordinate with SANDAG to provide informational materials on rideshare programs such as iCommute San Diego.
- High-efficiency LED street and area lighting will be installed to achieve reduction in overall lighting energy.
- Increase new tree plantings throughout the neighborhood by planting two trees per dwelling unit which is equivalent to a minimum of 792 trees within the Project Site.

2.0 EXISTING ENVIRONMENTAL SETTING

2.1 Existing Setting

During the late 1800's, the ranch was owned by the Gird family and was used for farming and ranching of cattle. These activities survived into the 20th century, and the property was owned by a Hollywood couple as a gentleman farm into the 1940's. In modern times, the site has been in use as a stallion breeding farm for several decades, dating to the purchase of the property by the Vessels Family in 1981. The lower elevations of the property contain an equestrian facility which includes extensive pastures for horses, some of these areas have been cultivated in the past with row crops such as flowers or tomatoes though isn't considered an agricultural resource. Higher elevations and hillside areas were previously utilized for agriculture, with avocado cultivation being the dominant use in areas of steeper topography.

The only existing, operational use on-site is the existing equestrian facility. The existing equestrian use is roughly 375 acres and includes a horse stable, shade structures, employee homes, an equipment maintenance shop, and other ancillary buildings related to the equestrian use.

Land uses surrounding the Project mostly include single family residential to the south and east uses and a middle/high school facility to the southeast. Bonsall High School and Sullivan Middle School (located on the same site) are located about 140 meters, or about 600 feet, southeast of the closest residential lot. The property includes a variety of terrain, from relatively flat alluvial plain near the river along the northern boundary to ridges and hillsides near the property's southern boundaries. Elevations at the northern boundary vary from 175 feet above mean sea level (MSL) at the northwest, to 840 feet at the northeast. Elevations increase progressively to the south, with ridgelines at or near the southern boundary having elevations ranging from 367 feet at the southwest to 725 feet at the southeast.

2.2 Climate and Meteorology

Climate within the San Diego Air Basin (SDAB) area often varies dramatically over short geographical distances with cooler temperatures on the western coast gradually warming to the east as prevailing winds from the west heat up. Most of southern California is dominated by high-pressure systems for much of the year, which keeps San Diego mostly sunny and warm. Typically, during the winter months, the high-pressure system drops to the south and brings cooler, moister weather from the north. It is common for inversion layers to develop within high-pressure areas, which mostly define pressure patterns over

the SDAB. These inversions are caused when a thin layer of the atmosphere increases in temperature with height. An inversion acts like a lid preventing vertical mixing of air through convective overturning. Meteorological trends within the Bonsall area generally show daytime highs ranging between 67°F in the winter to approximately 83°F in the summer with August usually being the hottest month. Daytime Low temperatures range from approximately 44°F in the winter to approximately 62°F in the summer. Precipitation is generally about 13 inches per year (WRCC, 2016). Prevailing wind patterns for the area vary during any given month during the year and also vary depending on the time of day or night. The predominant pattern though throughout the year is usually from the west or westerly (WRCC, 2018).

2.3 Regulatory Standards

2.3.1 Federal Standards and Definitions

The Federal Air Quality Standards were developed per the requirements of The Federal Clean Air Act, which is a federal law that was passed in 1970 and further amended in 1990. This law provides the basis for the national air pollution control effort. An important element of the act included the development of national ambient air quality standards (NAAQS) for major air pollutants.

The Clean Air Act established two types of air quality standards otherwise known as primary and secondary standards. **Primary Standards** set limits for the intention of protecting public health, which includes sensitive populations such as asthmatics, children and elderly. **Secondary Standards** set limits to protect public welfare to include the protection against decreased visibility, damage to animals, crops, vegetation and buildings. The EPA Office of Air Quality Planning and Standards (OAQPS) has set NAAQS for principal pollutants, which are called "criteria" pollutants. These pollutants are defined below:

1. **Carbon Monoxide (CO):** *is a colorless, odorless, and tasteless gas and is produced from the partial combustion of carbon-containing compounds, notably in internal-combustion engines. Carbon monoxide usually forms when there is a reduced availability of oxygen present during the combustion process. Exposure to CO near the levels of the ambient air quality standards can lead to fatigue, headaches, confusion, and dizziness. CO interferes with the blood's ability to carry oxygen.*
2. **Lead (Pb):** *is a potent neurotoxin that accumulates in soft tissues and bone over time. The major sources of lead emissions have historically been motor vehicles (such as cars and trucks) and industrial sources. Because lead is only slowly excreted, exposures to small amounts of lead from a variety of sources can accumulate to harmful levels. Effects from inhalation of lead near the level of the ambient air quality standard include impaired blood formation and nerve conduction. Lead can adversely affect the nervous, reproductive, digestive, immune, and blood-forming systems. Symptoms can include fatigue, anxiety, short-term memory loss, depression, weakness in the extremities, and learning disabilities in children.*
3. **Nitrogen Dioxide (NO₂):** *is a reactive, oxidizing gas capable of damaging cells lining the respiratory tract and is one of the nitrogen oxides emitted from high-temperature combustion, such as those occurring in trucks, cars, power plants, home heaters, and gas stoves. In the presence of other air*

contaminants, NO_2 is usually visible as a reddish-brown air layer over urban areas. NO_2 along with other traffic-related pollutants is associated with respiratory symptoms, respiratory illness and respiratory impairment. Studies in animals have reported biochemical, structural, and cellular changes in the lung when exposed to NO_2 above the level of the current state air quality standard. Clinical studies of human subjects suggest that NO_2 exposure to levels near the current standard may worsen the effect of allergens in allergic asthmatics, especially in children.

4. **Particulate Matter (PM_{10} or $\text{PM}_{2.5}$):** is a complex mixture of tiny particles that consists of dry solid fragments, solid cores with liquid coatings, and small droplets of liquid. These particles vary in shape, size and chemical composition, and can be made up of multiple materials such as metal, soot, soil, and dust. PM_{10} particles are 10 microns (μm) or less and $\text{PM}_{2.5}$ particles are 2.5 (μm) or less. These particles can contribute significantly to regional haze and reduction of visibility in California. Exposure to PM levels exceeding current air quality standards increases the risk of allergies such as asthma and respiratory illness.
5. **Ozone (O_3):** is a highly oxidative unstable gas capable of damaging the linings of the respiratory tract. This pollutant forms in the atmosphere through reactions between chemicals directly emitted from vehicles, industrial plants, and many other sources. Exposure to ozone above ambient air quality standards can lead to human health effects such as lung inflammation, tissue damage and impaired lung functioning. Ozone can also damage materials such as rubber, fabrics and plastics.
6. **Sulfur Dioxide (SO_2):** is a gaseous compound of sulfur and oxygen and is formed when sulfur-containing fuel is burned by mobile sources, such as locomotives, ships, and off-road diesel equipment. SO_2 is also emitted from several industrial processes, such as petroleum refining and metal processing. Effects from SO_2 exposures at levels near the one-hour standard include bronchoconstriction accompanied by symptoms, which may include wheezing, shortness of breath and chest tightness, especially during exercise or physical activity. Children, the elderly, and people with asthma, cardiovascular disease or chronic lung disease (such as bronchitis or emphysema) are most susceptible to these symptoms. Continued exposure at elevated levels of SO_2 results in increased incidence of pulmonary symptoms and disease, decreased pulmonary function, and increased risk of mortality.

2.3.2 State Standards and Definitions

CARB sets the laws and regulations for air quality on the state level. The California Ambient Air Quality Standards (CAAQS) is similar to the NAAQS and also restricts four additional contaminants. Table 2.1 on the following page identifies both the NAAQS and CAAQS. The additional contaminants as regulated by the CAAQS are defined below:

1. **Visibility Reducing Particles:** Particles in the Air that obstruct the visibility.
2. **Sulfates:** are salts of Sulfuric Acid. Sulfates occur as microscopic particles (aerosols) resulting from fossil fuel and biomass combustion. They increase the acidity of the atmosphere and form acid rain.
3. **Hydrogen Sulfide (H_2S):** is a colorless, toxic and flammable gas with a recognizable smell of rotten eggs or flatulence. H_2S occurs naturally in crude petroleum, natural gas, volcanic gases, and hot springs. Usually, H_2S is formed from bacterial breakdown of organic matter. Exposure to low concentrations of hydrogen sulfide may cause irritation to the eyes, nose, or throat. It may also cause difficulty in breathing for some asthmatics. Brief exposures to high concentrations of hydrogen sulfide (greater than 500 Parts per Million (ppm)) can cause a loss of consciousness and possibly death.
4. **Vinyl Chloride:** also known as chloroethene and is a toxic, carcinogenic, colorless gas with a sweet odor. It is an industrial chemical mainly used to produce its polymer, polyvinyl chloride (PVC).

Table 2.1: Ambient Air Quality Standards

Ambient Air Quality Standards							
Pollutant	Average Time	California Standards ¹		Federal Standards ²			
		Concentration ³	Method ⁴	Primary ^{3,5}	Secondary ^{3,6}	Method ⁷	
Ozone (O ₃) ⁸	1 Hour	0.09 ppm (180 µg/m ³)	Ultraviolet Photometry	-	Same as Primary Standard	Ultraviolet Photometry	
	8 Hour	0.070 ppm (137 µg/m ³)		0.070 ppm (137 µg/m ³)			
Respirable Particulate Matter (PM ₁₀) ⁹	24 Hour	50 µg/m ³	Gravimetric or Beta Attenuation	150 µg/m ³	Same as Primary Standard	Inertial Separation and Gravimetric Analysis	
	Annual Arithmetic Mean	20 µg/m ³		-			
Fine Particulate Matter (PM _{2.5}) ⁹	24 Hour	No Separate State Standard		35 µg/m ³	Same as Primary Standard	Inertial Separation and Gravimetric Analysis	
	Annual Arithmetic Mean	12 µg/m ³	Gravimetric or Beta Attenuation	12.0 µg/m ³			15 µg/m ³
Carbon Monoxide (CO)	8 hour	9.0 ppm (10mg/m ³)	Non-Dispersive Infrared Photometry (NDIR)	9 ppm (10 mg/m ³)	-	Non-Dispersive Infrared Photometry	
	1 hour	20 ppm (23 mg/m ³)		35 ppm (40 mg/m ³)			
	8 Hour (Lake Tahoe)	6 ppm (7 mg/m ³)		-			
Nitrogen Dioxide (NO ₂) ¹⁰	Annual Arithmetic Mean	0.030 ppm (57 µg/m ³)	Gas Phase Chemiluminescence	0.053 ppm (100 µg/m ³) ⁸	Same as Primary Standard	Gas Phase Chemiluminescence	
	1 Hour	0.18 ppm (339 µg/m ³)		0.100 ppm ⁸ (188 µg/m ³)			
Sulfur Dioxide (SO ₂) ¹¹	Annual Arithmetic Mean	-	Ultraviolet Fluorescence	0.030 ppm ¹⁰ (for Certain Areas)	-	Ultraviolet Fluorescence; Spectrophotometry (Pararosaniline Method) ⁹	
	24 Hour	0.04 ppm (105 µg/m ³)		0.14 ppm ¹⁰ (for Certain Areas) (See Footnote 9)			
	3 Hour	-		-			0.5 ppm (1300 µg/m ³)
	1 Hour	0.25 ppm (655 µg/m ³)		75 ppb (196 µg/m ³)			-
Lead ^{12,13}	30 Day Average	1.5 µg/m ³	Atomic Absorption	-	Same as Primary Standard	High Volume Sampler and Atomic Absorption	
	Calendar Quarter	-		1.5 µg/m ³			
	Rolling 3-Month Average	-		0.15 µg/m ³			
Visibility Reducing Particles	8 Hour	See footnote 14					
Sulfates	24 Hour	25 µg/m ³	Ion Chromatography				
Hydrogen Sulfide	1 Hour	0.03 ppm (42 µg/m ³)	Ultraviolet Fluorescence				
Vinyl Chloride ¹²	24 Hour	0.01 ppm (26 µg/m ³)	Gas Chromatography				

- California standards for ozone, carbon monoxide (except 8-hour Lake Tahoe), sulfur dioxide (1 and 24 hour), nitrogen dioxide, and particulate matter (PM₁₀, PM_{2.5}, and visibility reducing particles), are values that are not to be exceeded. All others are not to be equaled or exceeded. California ambient air quality standards are listed in the Table of Standards in Section 70200 of Title 17 of the California Code of Regulations.
- 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 PM₁₀, the 24-hour standard is attained when the expected number of days per calendar year with a 24-hour average concentration above 150 µg/m³ is equal to or less than one. For PM_{2.5}, the 24-hour standard is attained when 98 percent of the daily concentrations, averaged over three years, are equal to or less than the standard. Contact the U.S. EPA for further clarification and current national policies.
- 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.
- Any equivalent procedure which can be shown to the satisfaction of the ARB to give equivalent results at or near the level of the air quality standard may be used.
- National Primary Standards: The levels of air quality necessary, with an adequate margin of safety to protect the public health.
- National Secondary Standards: The levels of air quality necessary to protect the public welfare from any known or anticipated adverse effects of a pollutant.
- Reference method as described by the 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 EPA.
- On October 1, 2015, the national 8-hour ozone primary and secondary standards were lowered from 0.075 to 0.070 ppm.
- On December 14, 2012, the national annual PM_{2.5} primary standard was lowered from 15 µg/m³ to 12.0 µg/m³. The existing national 24-hour PM_{2.5} standards (primary and secondary) were retained at 35 µg/m³, as was the annual secondary standard of 15 µg/m³. The existing 24-hour PM₁₀ standards (primary and secondary) of 150 µg/m³ also were retained. The form of the annual primary and secondary standards is the annual mean, averaged over 3 years.
- 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.
- On June 2, 2010, a new 1-hour SO₂ 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 SO₂ 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.
- The ARB has identified lead and vinyl chloride as 'toxic air contaminants' with no threshold level of exposure for adverse health effects determined. These actions allow for the implementation of control measures at levels below the ambient concentrations specified for these pollutants.
- The national standard for lead was revised on October 15, 2008 to a rolling 3-month average. The 1978 lead standard (1.5 µg/m³ as a quarterly average) remains in effect until one year after an area is designated for the 2008 standard, except that in areas designated nonattainment for the 1978 standard, the 1978 standard remains in effect until implementation plans to attain or maintain the 2008 standard are approved.
- In 1989, the ARB converted both the general statewide 10-mile visibility standard and the Lake Tahoe 30-mile visibility standard to instrumental equivalents, which are "extinction of 0.23 per kilometer" and "extinction of 0.07 per kilometer" for the statewide and Lake Tahoe Air Basin standards, respectively.

Source: (California Air Resources Board, 5/4/2016)

2.3.3 Regional Standards

The State of California has 35 specific air districts, which are each responsible for ensuring that the criteria pollutants are below the NAAQS and CAAQS. Air basins that exceed either the NAAQS or the CAAQS for any criteria pollutants are designated as "non-attainment areas" for that pollutant. Currently, there are 15 non-attainment areas for the federal ozone standard and two non-attainment areas for the PM_{2.5} standard and many areas are in non-attainment for PM₁₀ as well. California therefore created the California State Implementation Plan (SIP), which is designed to provide control measures needed to attain ambient air quality standards.

The San Diego Air Pollution Control District (SDAPCD) is the government agency which regulates sources of air pollution within County. Therefore, the SDAPCD developed a Regional Air Quality Strategy (RAQS) to provide control measures to try to achieve attainment status for state ozone standards with control measures focused on Volatile Organic Compounds (VOCs) and oxides of nitrogen (NO_x). Currently, San Diego is in "non-attainment" status for federal and state O₃ and State PM₁₀ and PM_{2.5}. An attainment plan is available for O₃. The RAQS was adopted in 1992 and has been updated as recently as 2016 which was the latest update incorporating minor changes to the prior 2009 update.

The 2016 update mostly summarizes how the 2009 update has lowered NO_x and VOCs emissions which reduces ozone and clarifies and enhances emission reductions by introducing for discussion three new VOC and four new NO_x reduction measures. NO_x and VOCs are precursors to the formation of ozone in the atmosphere. The criteria pollutant standards are generally attained when each monitor within the region has had no exceedances during the previous three calendar years. A complete listing of the current attainment status for criteria pollutants with respect to both federal and state nonattainment status by pollutants for County is shown in Table 2.2 on the following page (SDAPCD, 2018).

The RAQS is largely based on population predictions by the San Diego Association of Governments (SANDAG). Projects that produce less growth than predicted by SANDAG would generally conform to the RAQS. Projects that create more growth than projected by SANDAG may create a significant impact if the project produces unmitigable air quality emissions or if the project produces cumulative impacts.

Table 2.2: San Diego County Air Basin Attainment Status by Pollutant

Criteria Pollutant	Federal Designation	State Designation
Ozone (8-Hour)	Nonattainment	Nonattainment
Ozone (1-Hour)	Attainment *	Nonattainment
Carbon Monoxide	Attainment	Attainment
PM10	Unclassifiable **	Nonattainment
PM2.5	Attainment	Nonattainment
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
<p><i>* The federal 1-hour standard of 12 pphm was in effect from 1979 through June 15, 2005. The revoked standard is referenced here because it was employed for such a long period and because this benchmark is addressed in State Implementation Plans.</i></p> <p><i>** At the time of designation, if the available data does not support a designation of attainment or nonattainment, the area is designated as unclassifiable.</i></p> <p>(SDAPCD, 2018)</p>		

2.4 California Environmental Quality Act (CEQA) Significance Thresholds

The California Environmental Quality Act has provided a checklist to identify the significance of air quality impacts. These guidelines are found in Appendix G of the CEQA guidelines and are as follows:

AIR QUALITY -- Where available, the significance criteria established by the applicable air quality management or air pollution control district may be relied upon to make the following determinations. Would the Project:

- A: Conflict with or obstruct implementation of the San Diego RAQS or applicable portions of the SIP?
- B: Result in emissions that would 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 non-attainment under an applicable Federal or State ambient air quality standard (PM10, PM2.5 or exceed quantitative thresholds for O3 precursors, NOX and VOCs)?
- D: Expose sensitive receptors (including, but not limited to, schools, hospitals, resident care facilities, residential uses or day-care centers) to substantial pollutant concentrations?
- E: Create objectionable odors affecting a substantial number of people?

2.5 SDAPCD Rule 20.2 – Air Quality Impact Assessment Screening Thresholds

The SDAPCD has established thresholds in Rule 20.2 for new or modified stationary sources. The County's Guidelines for Determining Significance and Report Format and Content Requirements incorporate screening level thresholds from Rule 20.2 for use in all County related Air Quality Impact Assessments (AQIA) and for determining CEQA air quality impacts (County of San Diego, 2007). These screening criteria can be used to demonstrate that a project's total emissions would not result in a significant impact as defined by CEQA. Also, since SDAPCD does not have air quality impact threshold for VOCs, it is acceptable to use the Coachella Valley VOC threshold from South Coast Air Quality Management District. Should emissions be found to exceed these thresholds, additional modeling is required to demonstrate that the project's total air quality impacts are below the state and federal ambient air quality standards. These screening thresholds for construction and daily operations are shown in Table 2.3 on the following page.

Non Criteria pollutants such as Hazardous Air Pollutants (HAPs) or Toxic Air Contaminants (TACs) are also regulated by the SDAPCD. Rule 1200 (Toxic Air Contaminants - New Source Review) adopted on June 12, 1996, requires evaluation of potential health risks for any new, relocated, or modified emission unit which may increase emissions of one or more toxic air contaminants. The rule requires that projects that propose to increase cancer risk to between 1 and 10 in one million need to implement toxics best available control technology (T-BACT) or impose the most effective emission limitation, emission control device or control technique to reduce the cancer risk. At no time shall the project increase the incremental cancer risk to over 10 in one million or a health hazard index (chronic and acute) greater than one. Projects creating cancer risks less than one in one million are not required to implement T-BACT technology.

The U.S. EPA uses the term VOC and the CARB's Emission Inventory Branch (EIB) uses the term Reactive Organic Gases (ROG) to essentially define the same thing. There are minor deviations between compounds that define each term however for purposes of this study we will assume they are essentially the same due to the fact SCAQMD interchanges these words and because Air Quality models directly calculates ROG in place of VOC.

Table 2.3: Screening Level Thresholds for Criteria Pollutants

Pollutant	Total Emissions (Pounds per Day)
Construction Emissions	
Respirable Particulate Matter (PM ₁₀ and PM _{2.5})	100 and 55
Nitrogen Oxide (NO _x)	250
Sulfur Oxide (SO _x)	250
Carbon Monoxide (CO)	550
Volatile Organic Compounds (VOCs)	75
Reactive Organic Gases (ROG) SCAQMD	75
Operational Emissions	
Respirable Particulate Matter (PM ₁₀ and PM _{2.5})	100 and 55
Nitrogen Oxide (NO _x)	250
Sulfur Oxide (SO _x)	250
Carbon Monoxide (CO)	550
Lead and Lead Compounds	3.2
Volatile Organic Compounds (VOCs)	75
Reactive Organic Gases (ROG) SCAQMD	75

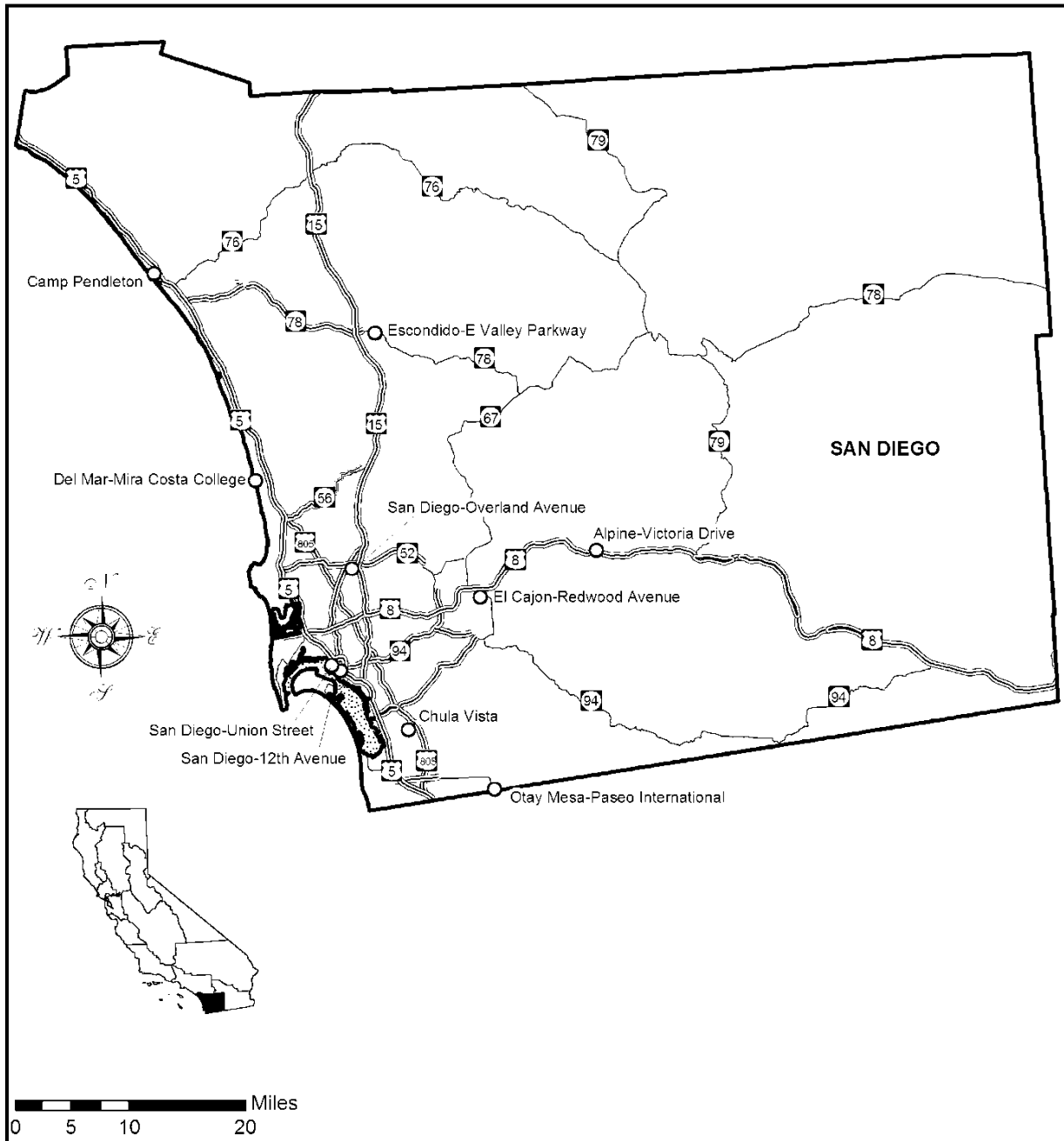
2.6 Local Air Quality

Criteria pollutants are measured continuously throughout the San Diego Air Basin. This data is used to track ambient air quality patterns throughout the County. As mentioned earlier, this data is also used to determine attainment status when compared to the NAAQS and CAAQS. The SDAPCD is responsible for monitoring and reporting monitoring data (SDAPCD, 2018). SDAPCD operates monitoring sites, which collect data on criteria pollutants. The closest monitoring locations to the project site is the Escondido monitoring location roughly 14 miles to the south-southeast, and the Camp Pendleton monitoring station. Table 2.4 on the following page identifies the criteria pollutants monitored at the aforementioned stations.

Table 2.4: Three-Year Ambient Air Quality Summary near the Project Site

Pollutant	Closest Recorded Ambient Monitoring Site	Averaging Time	CAAQS	NAAQS	2015	2016	2017	Days Exceeded over 3 years
O ³ (ppm)	Camp Pendleton or Escondido Monitoring Station	1 Hour	0.09 ppm	No Standard	0.09	0.08	0.09	0
		8 Hour	0.070 ppm	0.070 ppm	0.08	0.07	0.08	10
* PM ₁₀ (µg/m ³)		24 Hour	50 µg/m ³	150 µg/m ³	30	-	-	N/A
		Annual Arithmetic Mean	20 µg/m ³	No Standard	19.4	-	-	N/A
* PM _{2.5} (µg/m ³)		24 Hour	No Standard	35 µg/m ³	29.4	-	-	N/A
		Annual Arithmetic Mean	12 µg/m ³	15 µg/m ³	8.6	-	-	N/A
NO ₂ (ppm)		Annual Arithmetic Mean	0.030 ppm	0.053 ppm	0.006	0.006	0.006	N/A
		1 Hour	0.18 ppm	0.100 ppm	0.060	0.072	0.063	N/A
* CO (ppm)		1 Hour	20 ppm	35 ppm	3.1	-	-	N/A
		8 Hour	9 ppm	9 ppm	2.0	-	-	N/A
Notes: - Yearly maximums marked with "-" indicated data was not available for either monitoring station. Days exceeded marked with "N/A" indicate no data available * Data was selected from the closest Escondido Location								

Figure 2-A: Ambient Air Quality Monitoring Stations within SDAB – CARB



3.0 METHODOLOGY

3.1 Construction Emissions Calculations

Air Quality impacts related to construction and daily operations were calculated using the latest CalEEMod 2016.3.2 air quality model, which was developed by BREEZE Software for South Coast Air Quality Management District (SCAQMD) in 2017. The construction module in CalEEMod is used to calculate the emissions associated with the construction of the Project and uses methodologies presented in the US EPA AP-42 document with emphasis on Chapter 11.9. The CalEEMod input/output model is shown in **Attachment A** to this report.

The SCREEN3 dispersion model will be used to determine the concentration for air pollutants at any location near the pollutant generator. Additionally, the model will predict the point of maximum exposure from the project site and maximum concentrations. The notable toxic air contaminant from construction is diesel exhaust since exposure to diesel exhaust is known to cause cancer and acute and chronic health effects to sensitive residential receptors which are located between 140 and 300 meters from the project. Diesel exhaust emissions can be estimated using the annual PM₁₀ exhaust emissions from onsite construction operations obtained from the annual CalEEMod model output by summing each onsite source for the construction duration. The SCREEN3 input/output file for the proposed Project is shown in **Attachment B** at the end of this report.

Once the dispersed concentrations of diesel particulates are estimated in the surrounding air, they are used to evaluate estimated exposure to people. Exposure is evaluated by calculating the dose in milligrams per kilogram body weight per day (mg/kg/d). For residential exposure, the breathing rates are determined for specific age groups, so inhalation dose (Dose-air) is calculated for each of these age groups, 3rd trimester, 0<2, 2<9, 2<16, 16<30 and 16-70 years. The following algorithms calculate this dose for exposure through the inhalation pathways. The worst case cancer risk dose calculation is defined in Equation 1 below (OEHHA, February 2015):

$$\text{Equation 1} \quad \text{Dose}_{\text{air}} = C_{\text{air}} * (\text{BR}/\text{BW}) * A * \text{EF} * (1 \times 10^{-6})$$

Dose _{air}	=	Dose through inhalation (mg/kg/d) Concentration in air (µg/m ³) Annual average Diesel Particulate Matter (DPM)
C _{air}	=	concentration in µg/m ³ -SCREEN3 predicts a 1-hr concentration and is corrected to an annual average by multiplying the 1-hr average by 0.08 (US EPA, 1992)
BR/BW	=	Daily breathing rate normalized to body weight (L/kg BW-day). See Table I.2 for the daily breathing rate for each age range.
A	=	Inhalation absorption factor (assumed to be 1)
EF	=	Exposure frequency (unitless, days/365 days)
1x10 ⁻⁶	=	Milligrams to micrograms conversion (10 ⁻³ mg/ µg), cubic meters to liters conversion (10 ⁻³ m ³ /l)

Cancer risk is calculated by multiplying the daily inhalation or oral dose, by a cancer potency factor, the age sensitivity factor, the frequency of time spent at a person’s home or exposed to the risk and the exposure duration divided by averaging time, to yield the excess cancer risk. As described below, the excess cancer risk is calculated separately for each age grouping and then summed to yield cancer risk for any given location. Specific factors as modeled are shown within the project models attached to this report. The worst case cancer risk calculation is defined in Equation 2 below (OEHHA, February 2015):

Equation 2

$$RISK_{inh-res} = DOSE_{air} \times CPF \times ASF \times ED/AT \times FAH$$

RISK _{inh-res}	=	Residential inhalation cancer risk
DOSE _{air}	=	Daily inhalation dose (mg/kg-day)
CPF	=	Inhalation cancer potency factor (mg/kg-day ⁻¹)
ASF	=	Age sensitivity factor for a specified age group (unitless)
ED	=	Exposure duration (in years) for a specified age group
AT	=	Averaging time for lifetime cancer risk (years)
FAH	=	Fraction of time spent at home or exposed to the risk (unitless)

OEHHA recommends that an exposure duration (residency time) of 30 years be used to estimate individual cancer risk for the Maximally Exposed Individual Resident (MEIR). OEHHA also recommends that the 30-year exposure duration be used as the basis for public notification and risk reduction audits and plans.

Exposure durations of 9-years and 70-years are also recommended to be evaluated for the MEIR to show the range of cancer risk based on residency periods. If a facility is notifying the public regarding cancer risk, the 9-and 70-year cancer risk estimates are useful for people who have resided in their current residence for periods shorter and longer than 30 years. Health risk calculations are shown in **Attachment C** to this report.

Non-Cancer risks or risks defined as chronic or acute are also known with respect to DPM and are determined by the hazard index. To calculate hazard index, DPM concentration is divided by its chronic Reference Exposure Levels (REL). Where the total equals or exceeds one, a health hazard is presumed to exist. RELs are published by the Office of Environmental Health Hazard Assessment (OEHHA, February 2015). Diesel Exhaust has a REL of 5 µg/m³ and targets the respiratory system.

3.2 Construction Assumptions

The Project construction dates were estimated based on a construction kickoff in 2022 with construction ending in 2029. The proposed project calls for the demolition of up to 15,000 SF of structures. The project would then grade the site to allow for construction of the single-family homes. Once earthwork activities are completed, paving and building construction activities would follow.

CalEEMod 2016.3.2 was utilized for all calculations and included manual updates to the model to reflect the usage of SDAPCD Rule 67 paint VOC limits as well as design features to use Tier 3 or better ratings with DPF for all diesel equipment used during grading and construction. Additionally, per the project engineer, approximately 1,900,000 CY of balanced cut / fill of which 945,000 Cubic Yards of that same material will be hauled onsite 1,500 feet away within Planning Areas 1 and 2. For purposes of analysis, a haul distance of 0.5 miles was assumed. Additionally, the project engineer indicated that up to 32 acres of paving will be required which was included within the modeling. Table 3.1 on the following page shows the Project Engineer expected timeframes for construction processes for all the project infrastructure, facilities and improvements at the proposed project location, as well as the expected number of pieces of equipment. Whenever defaults were not used, the model was updated manually.

It should also be noted that the project design engineer expects that up to three separate blasts will be required during grading. During blasting operations, grading operations would temporarily stop and resume once blasting is completed. Per conversations with the project Civil Engineer, it is expected that each blast, limited to once a day, would be limited to six tons Ammonium Nitrate for any given blast operation. The area of each blast would be limited to 20,000 SF or (100-foot x 200-foot) area.

Blasting operations usually require a chemical material that is capable of extremely rapid combustion resulting in an explosion or detonation. These materials are usually mixtures of several ingredients but are often oxygen deficient as combustion reactions take place which causes a formation of carbon monoxide and to a lesser extent, nitrogen oxides. For ammonium nitrate and fuel oil (ANFO) mixtures it is expected that carbon monoxide would be generated in quantities of 67 lbs per every ton of explosives and nitrogen oxides would be generated at 17 lbs per the same quantity (EPA, 1995). Particulate matter will also be generated from blasting and can be estimated using Table 11.9-1 of the aforementioned document (EPA, 1995) using the following equation:

$$PM_{10}(lb / Blast) = 0.000014 * (BlastArea(ft^2)) * 0.52$$

Table 3.1: Expected Construction Equipment

Equipment Identification	Proposed Start	Proposed Complete	Quantity
Demolition	03/01/2022	03/21/2022	
Excavators			1
Site Preparation	03/22/2022	07/25/2022	
Rubber Tired Dozers			3
Tractors/Loaders/Backhoes			4
Grading	07/26/2022	11/21/2022	
Bore/Drill Rigs			2
Crushing/Proc. Equipment			1
Excavators			3
Graders			3
Rubber Tired Dozers			3
Scrapers			4
Tractors/Loaders/Backhoes			3
Paving	8/29/2023	10/23/2023	
Pavers			2
Paving Equipment			2
Rollers			2
Building Construction	10/24/2023	7/5/2029	
Cranes			1
Forklifts			3
Generator Sets			1
Tractors/Loaders/Backhoes			3
Welders			1
Architectural Coating	5/20/2024	07/5/2029	
Air Compressors			1
This equipment list is based upon equipment inventory within CalEEMod. The quantity and types are based upon assumptions from Projects of similar size and scope in the County of San Diego.			

3.3 Operational Emissions

Once construction is completed the proposed project would generate emissions from daily operations which would include sources such as Area, Energy, Waste and Water uses, which are also calculated within CalEEMod. Area Sources include consumer products, landscaping and architectural coatings as part of regular maintenance. Energy sources would be from uses such as onsite natural gas use. Additionally, it was assumed that an average of 10% of the structural surface area will be re-painted each year.

Finally, the project would also generate emissions through the use of vehicles for transportation. The Project was estimated to generate 3,990 Average Daily Trips (ADT) as identified within the Project traffic study (LSA, 2019). These daily trips were utilized within

the CalEEMod analysis using a rural setting. The Operational model are also shown in **Attachment A** at the end of this report.

3.4 Micro Scale Operational Emissions

Air pollutant emissions related to Project traffic have the potential to create new, or worsen existing localized air quality violations with respect to carbon monoxide (CO). These increased carbon monoxide “Hot Spots” are determined through the utilization of the Institute of Transportation Studies (ITS) Transportation Project-Level Carbon Monoxide Protocol (University of California, Davis, 1997).

In the event the proposed project traffic adds vehicular trips to either an intersection that operates at Level of Service (LOS) E or F or the addition project trips re-classify the intersection from an acceptable LOS to LOS E or F, and when total intersection peak-hour trips exceed 3,000 vehicles, the Project must conduct a CO “Hot Spot” analysis (County of San Diego, 2007).

The ITS Transportation Project-Level Carbon Monoxide Protocol recommends running the EMFAC model to determine emission rates for the Project year as well as conduct dispersion modeling utilizing CALINE to determine worst-case emission concentrations. The EMFAC model is provided as **Attachment D** to this report.

The Project traffic study reported that the proposed Project combined with existing traffic would add trips to seven intersections having LOS of E or worse. However only three of these intersections would have more than 3,000 vehicles per hour. These intersections as identified within the project traffic study are shown in Table 3.2 (LSA, 2019). It should be noted that the project traffic study indicated that impacts combined with cumulative impacts would be fully mitigated through signalization and traffic impact fees.

Table 3.2: Intersections LOS E or Worse and Delay

Intersection	Peak Hour	Number of peak-hour Vehicles	LOS	Delay	Project Added Peak-Hour Vehicles
Highway 76 / Olive Hill Road/Camino Del Rey	AM	4,733	E	57.9	80
	PM	5074	E	56.7	100
Old Highway 395 / SR-76	AM	3274	F	69.8	72
	PM	3215	D	31.0	88
SR-76 / Old River Road - East Vista Way	AM	4193	D	52.7	61
	PM	4635	F	138.5	76

Micro-Scale operations during these conditions show that the Project would add trips to these intersections and would have a potential generate CO emissions in excess of the CAAQS. For purposes of this analysis, the CAAQS would be considered the most stringent air quality standard with CO limits of 9 parts per million (PPM) for the one-hour standard and 20 PPM CO for the 8-hour standard and are used within this analysis. Additionally, the CALINE model incorporated the highest 8-hour and 1-hour air quality data as collected at the Escondido monitoring station, which in 2014 was 3.1 PPM and 3.8 PPM, respectively. The CALINE models are shown in **Attachment E** to this report.

3.5 Odor Impacts (Onsite)

Potential onsite odor generators would include short-term construction odors from activities such as paving and possibly painting. Odors created during short-term construction activities would most likely be from placing asphalt which has a slight odor from the bitumen and solvents used within hot asphalt and architectural coating. Asphalt operations are fairly quick and would cause less than significant impacts.

The proposed project will be constructed on a site which has existing equestrian activities which will remain. The proposed project would not result in any increase in activities related to the equestrian use and would therefore not increase odors generated by the equestrian use. Given this, these equestrian activities will generate equestrian odors which cannot be avoided. Each residential unit sold within the project site will require full disclosure in perpetuity of any equestrian activities within the project site. Based on this, the project would have less than significant impacts. Further discussion of onsite odor impacts is not included in this report.

4.0 FINDINGS

4.1 Construction Findings

Construction emissions in pounds per day from the construction operations and equipment identified in Section 3.2 is shown in Tables 4.1 and 4.2 for summer and winter timeframes respectively. The grading operations are expected to take up to nine months with blasting to occur on an occasional basis. During blasting operations, grading operations would stop and it's expected that each blast operation would require between 10,000 - 12,000 lbs of Ammonium Nitrate. As a design feature, the proposed project would utilize no more than 6 tons of ammonium nitrate daily which would generate up to 402 lbs (67 lbs/ton * 6 tons) of carbon monoxide and up to 102 lbs (17 lbs/ton * 6 tons) of nitrogen oxides during a blast utilizing 6 tons of ammonium nitrate. These quantities would be additive to the mass grading operations for the entire project site and could be added to the worst-case mass grading daily CO and NO_x output. Additional particulates derived from each blast is estimated over a 20,000 SF area roughly 100-foot by 200-foot in dimension as identified in Section 3.2. Given this, it's estimated that each blast would generate 20.59 lb/blast as is shown in the equation below:

$$PM_{10}(\text{lb/ Blast}) = 0.000014 * (20,000 \text{ft}^2)^{1.5} * 0.52 = 20.59(\text{lb/blast})$$

Table 4.1: Expected Construction Emissions Summary – Pounds per Day (Summer)

Year	ROG	NO _x	CO	SO ₂	PM ₁₀ (Dust)	PM ₁₀ (Exhaust)	PM ₁₀ (Total)	PM _{2.5} (Dust)	PM _{2.5} (Exhaust)	PM _{2.5} (Total)
2022	4.161	96.392	86.203	0.183	37.110	0.447	37.272	12.067	0.446	12.228
2023	5.508	92.004	85.704	0.224	24.996	0.440	25.436	10.823	0.439	11.262
2024	13.084	38.321	55.928	0.243	18.004	0.199	18.203	4.828	0.190	5.018
2025	12.838	37.687	53.224	0.237	18.004	0.197	18.201	4.828	0.188	5.016
2026	12.624	37.107	50.970	0.231	18.004	0.193	18.197	4.828	0.184	5.012
2027	12.412	36.569	48.974	0.226	18.004	0.187	18.191	4.828	0.179	5.007
2028	12.190	36.107	47.273	0.222	18.004	0.180	18.184	4.828	0.172	5.000
2029	11.951	35.650	45.649	0.218	18.004	0.173	18.177	4.828	0.166	4.994
Maximum	13.084	96.392	86.203	0.243	37.110	0.447	37.272	12.067	0.446	12.228
Blasting Emissions calculated in text above		102	402		20.59		20.59			
Construction w/ Blasting (Maximum)	13.084	198.392	488.203	0.243	57.7	0.447	57.862	12.067	0.446	12.228
Significance Threshold (lb/day)	75	250	550	250	-	-	100	-	-	55
SDAPCD Impact?	No	No	No	No	-	-	No	-	-	No

Table 4.2: Expected Construction Emissions Summary – Pounds per Day (Winter)

Year	ROG	NO _x	CO	SO ₂	PM ₁₀ (Dust)	PM ₁₀ (Exhaust)	PM ₁₀ (Total)	PM _{2.5} (Dust)	PM _{2.5} (Exhaust)	PM _{2.5} (Total)
2022	4.257	95.416	87.340	0.179	37.110	0.452	37.277	12.067	0.450	12.233
2023	6.294	91.287	86.526	0.214	24.996	0.443	25.439	10.823	0.442	11.265
2024	13.993	38.541	53.503	0.232	18.004	0.201	18.205	4.828	0.192	5.020
2025	13.723	37.879	50.957	0.226	18.004	0.198	18.202	4.828	0.189	5.017
2026	13.489	37.276	48.835	0.221	18.004	0.194	18.198	4.828	0.185	5.013
2027	13.254	36.716	46.959	0.217	18.004	0.188	18.192	4.828	0.180	5.008
2028	13.003	36.238	45.365	0.213	18.004	0.181	18.185	4.828	0.173	5.001
2029	12.728	35.764	43.839	0.209	18.004	0.174	18.178	4.828	0.167	4.995
Maximum	13.993	95.416	87.340	0.232	37.110	0.452	37.277	12.067	0.450	12.233
Blasting Emissions calculations in text above		102	402		20.59		20.59			
Construction w/ Blasting (Maximum)	13.993	197.416	489.34	0.232	57.7	0.452	57.867	12.067	0.45	12.233
Significance Threshold (lb/day)	75	250	550	250	-	-	100	-	-	55
SDAPCD Impact?	No	No	No	No	-	-	No	-	-	No

Based on these numbers, the project would not exceed County screening level thresholds and would not require mitigation to comply. It should be noted that as a design feature, the project construction team will utilize Tier 3 or better construction diesel equipment with DPF for this project.

4.2 Health Risk

The nearest sensitive receptors are between 140 and 300 meters away from the project grading boundaries to include the nearby school and residences to the south of the project. The proposed project will be mandated to utilize required Tier 3 construction equipment with DPF attached. Based upon the annual air quality modeling outputs, worst-case PM₁₀ generated from onsite construction exhaust would cumulatively produce 0.121 tons over the construction duration 2,768-calendar days or an average of 0.00046 grams/second. The average emission rate over the grading area is 3.63x10⁻¹⁰ g/m²/s, which was calculated as follows:

$$\frac{0.00046 \frac{\text{grams}}{\text{second}}}{312 \text{ acres} * 4,046 \frac{\text{meters}^2}{\text{acre}}} = 3.63 * 10^{-10} \frac{\text{grams}}{\text{meters}^2 \text{ second}}$$

Utilizing the SCREEN3 dispersion model, we find that the peak maximum 1-hr concentration is 0.045 $\mu\text{g}/\text{m}^3$ during the worst-case construction period. Converting the peak 1-hr concentration to an annual concentration reduces the concentration to 0.0036 $\mu\text{g}/\text{m}^3$. Therefore, utilizing the risk equation identified above in Section 3.1, the inhalation cancer risk for the point of maximum exposure (800 meters from the project boundary) is 4.61 per one million exposed which does not exceed 10 per one million exposed. Based on this, since the project will be required to utilize Tier 3 equipment with DPF or better, no health risks related to diesel equipment during construction would be expected.

The nearest sensitive receptors are between 140 and 300 meters away from the project grading boundaries include the nearby school and residences to the south of the project. They would be exposed to a cancer risk of no greater than 4.61 per one million exposed. Given this, a less than significant impact would be expected at these units. It should be noted that at least Tier 3 equipment with DPF will be required and is considered T-BACT. There are known acute and chronic health risks associated with diesel exhaust which are considered non-cancer risks. These risks are calculated based on methods identified in Section 3.1. From this we find that the annual concentration of 0.0036 $\mu\text{g}/\text{m}^3$ divided by the REL of 5 $\mu\text{g}/\text{m}^3$ yields a Health Hazard Index of 0.0007, which is less than one. Therefore, no non-cancer risks are expected and all health risks are considered less than significant.

4.3 Operational Findings

The project traffic generation from the project traffic study was utilized within CalEEMod 2016.3.2 (LSA, 2019). Additionally, the model was run for the winter and summer scenarios to determine operational impacts for the buildout year of full operations. The expected daily pollutant generation can be calculated utilizing the product of the average daily miles traveled and the expected emissions inventory calculated by EMFAC2014; CALEEMOD 2016.3.2 performs this calculation. The daily pollutants calculated for summer and winter are shown in Tables 4.3 and 4.4.

Table 4.3: Expected Summer Daily Pollutant Generation

	ROG	NO_x	CO	SO_x	PM₁₀	PM_{2.5}
Area	20.078	6.945	35.384	0.044	0.712	0.712
Energy	0.274	2.338	0.995	0.015	0.189	0.189
Mobile	5.103	20.519	66.311	0.282	31.594	8.555
Total (Unmitigated)	25.454	29.802	102.690	0.341	32.495	9.456
SDAPCD Thresholds	75	250	550	250	100	55
Significant?	No	No	No	No	No	No
Daily pollutant generation assumes trip distances within CalEEMod The final numbers are all rounded within Excel and are reported as rounded numbers.						

Table 4.4: Expected Winter Daily Pollutant Generation

	ROG	NO_x	CO	SO_x	PM_{1.0}	PM_{2.5}
Area	20.078	6.945	35.384	0.044	0.712	0.712
Energy	0.274	2.338	0.995	0.015	0.189	0.189
Mobile	4.941	21.066	63.960	0.269	31.594	8.555
Total (Unmitigated)	25.292	30.348	100.340	0.327	32.495	9.457
SDAPCD Thresholds	75	250	550	250	100	55
Significant?	No	No	No	No	No	No
Daily pollutant generation assumes trip distances within CalEEMod The final numbers are all rounded within Excel and are reported as rounded numbers.						

Based upon these calculations, the proposed project would not exceed SDAPCD operational air quality significance thresholds and would not be required to implement specific mitigation measures to comply with CEQA and SDAPCD thresholds. It should be noted however that PDFs identified in Section 1.4 of this report will be conditions of approval by the County.

4.4 Micro-Scale Operational Findings

The Project traffic study reported that the proposed Project would add project related traffic to three intersections operating at LOS E or worse and having more than 3,000 peak hour vehicles. Based on review of the data in Table 3.2 above, the worst-case intersection or the intersection having the most combined trips is the intersection of *Highway 76 / Olive Hill Road/Camino Del Rey* with over 5,074 vehicles during the PM peak-hour of which 80 are project related. It should be noted that the proposed project would add a larger number of project specific trips to other intersections however, these intersections would have fewer than 3,000 peak hour trips and would therefore have less than significant impacts.

The CALINE4 model was set up to show a typical intersection with a North, East, South and West segment extending a typical 50-meters in every direction. Peak-Hour volumes were taken from the peak-hour turning movements within the project traffic study (LSA, 2019) for the worst-case intersection identified. Sensitive receptors were assumed to be roughly 25-feet to each roadway which represents a worst-case environment. The EMFAC2014 model was run to determine the emission factors for 2025 since its expected vehicles will be added to the roadways by 2025 and this calculation is conservative since using a 2030 scenario (first buildout year expected) in EMFAC would have lower emission factors. Based on this analysis for the worst case intersection having the highest number of peak hour vehicles and the highest number of project added vehicles would produce less than significant CO impacts. Furthermore, since all other intersections have less than 3,000 total

peak hour vehicles, a less than significant CO impact at these locations would also be expected.

Table 4.5 identifies both the 1-hour emission concentration predictions and the 8-hour average after utilizing the carbon dioxide persistence factor of 0.7. Based on model output results, the CO impacts at this intersection would be less than significant. Based on this calculation, since all other remaining intersections have lower traffic volumes, we can conclude that all other remaining intersections would also comply with the CAAQS.

Table 4.5: Expected Carbon Monoxide Hot Spot Concentration Levels

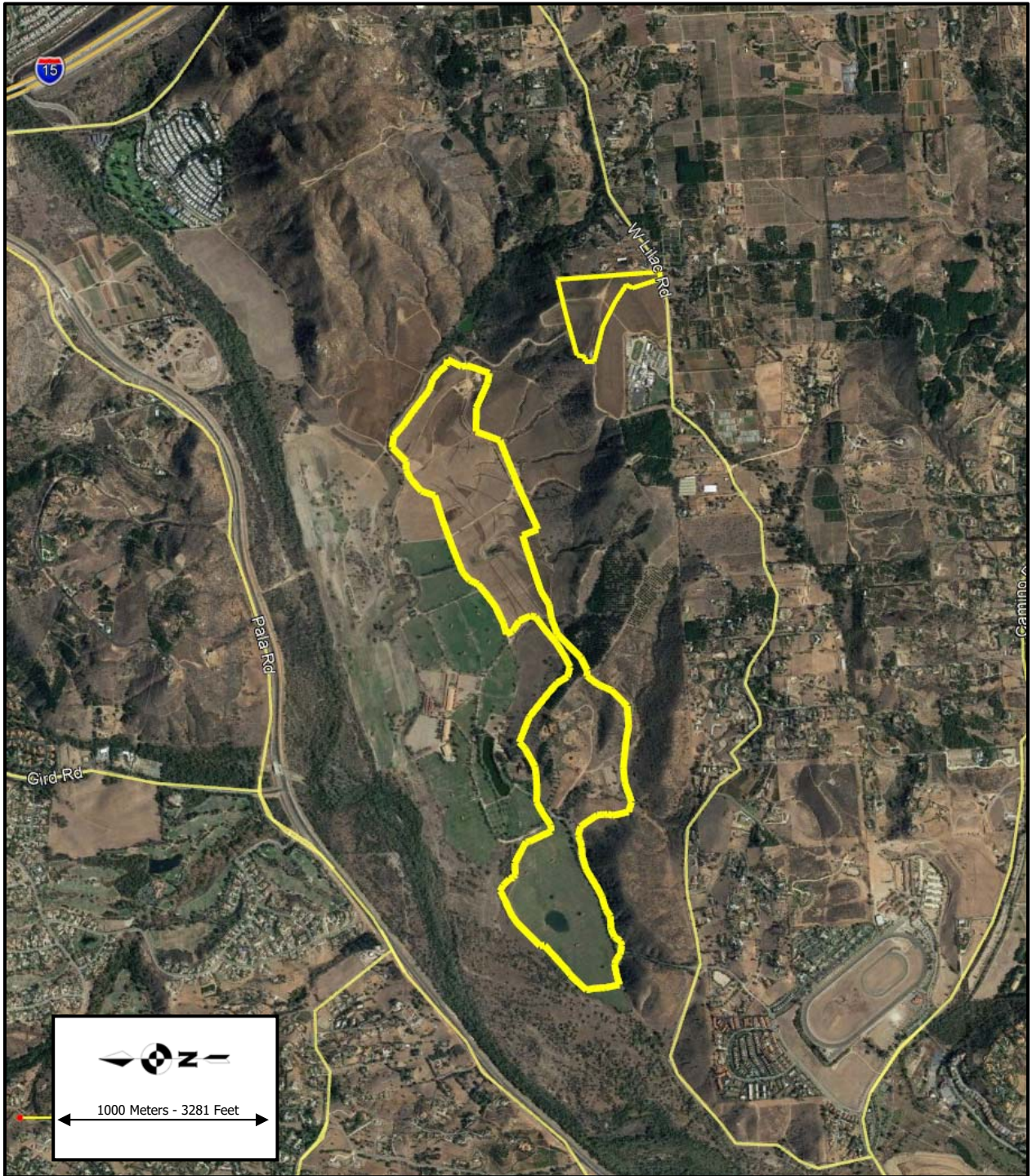
Intersection	Vehicles Per Hour	Predicted Concentration PPM	
	PM	1 HR	8HR
Highway 76 / Olive Hill Road/Camino Del Rey	5,074	3.3	2.31
CAAQS - Significant Thresholds?		20	9
Significant		No	No
Emission levels taken from EMFAC 2014 Traffic Volumes obtained from Project Traffic Study (LSA, 2019)			

4.5 Cumulative Impact Findings

Cumulative impacts would exist when either there are direct air quality impacts or when multiple construction projects occur within the same area simultaneously. To illustrate this, if a project was to produce air quality emissions simultaneous to a nearby construction project the addition of both project emissions to the environment could exceed significance thresholds. If a nearby project was to be under construction at the same time, that project would need to produce an additive amount of emissions close to the project site such that emissions would exceed thresholds. In Section 4.2, it was found the maximum exposure for dispersed emissions would be roughly 800 meters from the project construction boundary.

As can be seen in Figure 4-A on the following page, the proposed project residential construction areas are located within a 1,402.52-acre site and large buffer areas exist between construction areas (identified in yellow) and off project sites or developable areas adjacent to the project site for which cumulative projects could be proposed. The nearest large project at this time with a potential to cumulatively increase construction emissions would be the Lilac Hills Ranch, roughly 3,000 meters to the southeast which is well beyond the 800-meter point of maximum exposure predicted by air dispersion modeling.

Figure 4-A: Proposed Residential Construction Areas



Additionally, it should be noted that any potential cumulative projects would be separated by intervening topography and a freeway. Since the separation distances exceeds is more than 3,000 meters or 2,200 meters from the point of maximum exposure in combination with intervening topography, the project would have a less than significant cumulative construction impact.

The Project property has multiple zoning and land use designations and the proposed project would be consistent with overall densities allowed by the General Plan for the site. The Project seeks a major use permit for the residential uses and one for the equestrian uses which will formalize the operational requirements for each set of uses. The Project's overall buildout of 396 units would be consistent with the existing General Plan Land Use Designations allowing up to 402 units. Additionally, the Project would be consistent with existing zoning designations of A70 (Limited Agricultural Use), S80 (Open Space), and RV (Variable Family Residential), to include all applicable Special Area Regulations, and Animal Regulations (County of San Diego, 2017). No amendments to zoning designations, Special Area Regulations, or Animal Regulations are needed to accommodate the project.

The environmental impact report for the General Plan analyzed the impacts of all growth projected under the General Plan. The project is consistent with all applicable General Plan policies and has been designed to implement all applicable General Plan mitigation measures related to air quality. Because the project is consistent with the projected growth of the General Plan and with the applicable General Plan air quality policies and mitigation measures, the project will not result in a significant cumulative impact to air quality. Therefore, the project would be consistent with the RAQS and SIP.

4.6 Conclusion of Findings

Based upon the analysis of construction and operation activities for the proposed project would generate less than significant direct operational and direct construction impacts.

As a condition of approval, the proposed project would utilize Tier 3 or better diesel equipment with DPF. Diesel particulate matter from the project was not found to increase cancer risks greater than 10 per million exposed. Since Tier 3 equipment with DPF is considered T-BACT equipment, this potential health risk impact would be less than significant.

The Project property has multiple zoning and land use designations and the proposed project would be consistent with overall densities allowed by the General Plan for the site. The Project seeks a major use permit for the residential uses and one for the equestrian uses which will formalize the operational requirements for each set of uses. The Project's

overall or combined buildout of 396 units would be consistent with the existing General Plan Land Use Designations allowing 402 units. Additionally, the Project would be consistent with existing zoning designations of A70 (Limited Agricultural Use), S80 (Open Space), and RV (Variable Family Residential), to include all applicable Special Area Regulations, and Animal Regulations (County of San Diego, 2017). No amendments to zoning designations, Special Area Regulations, or Animal Regulations are needed to accommodate the project and less than significant impacts would be expected. Therefore, the project would be consistent with the RAQS and SIP.

Project design features (PDFs) have been included in this project. The applicant has agreed to implement all PDFs and will be included in the project's Conditions of Approval. The following PDFs are included.

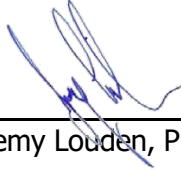
- Project-related construction activities were assumed to use Tier 3 or better U.S.EPA/ CARB-certified construction equipment with DPF and was modeled as such within this analysis.
- As a design feature, the proposed project would utilize no more than 6 tons of ammonium nitrate per blast and would not blast an area greater than 20,000 SF per day.
- The Project will only install Natural Gas fireplaces within all 396 residential units.
- The Project will provide disclosures to future residents that the existing Equestrian Facility operations may cause agricultural odors typical of equestrian uses.
- The project will utilize architectural coatings compliant with San Diego Air Pollution Control District (SDAPCD) Rule 67 (SDAPCD, 2015).

5.0 REFERENCES

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6.0 CERTIFICATIONS

The contents of this report represent an accurate depiction of the air quality environment and impacts within and surrounding the proposed residential development. This report was prepared utilizing the latest emission rates and reduction methodologies. This report was prepared by Jeremy Loudon; a County approved CEQA Consultant for Air Quality.



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Date June 23, 2019

ATTACHMENT A

CalEEMod

Ocean Breeze Ranch 2030 Operations - San Diego County, Summer

Ocean Breeze Ranch 2030 Operations
San Diego County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Other Asphalt Surfaces	32.00	Acre	32.00	1,393,920.00	0
City Park	16.00	Acre	16.00	696,960.00	0
Single Family Housing	396.00	Dwelling Unit	264.00	712,800.00	1133

1.2 Other Project Characteristics

Urbanization	Rural	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/MW hr)	402.51	CH4 Intensity (lb/MW hr)	0.016	N2O Intensity (lb/MW hr)	0.003

1.3 User Entered Comments & Non-Default Data

Ocean Breeze Ranch 2030 Operations - San Diego County, Summer

Project Characteristics - rps for fully operational year 2030 50% RPS

Land Use - Proposed project... Project Engineer estimated 32 acres of paving

Construction Phase - Project Construction Durations

Off-road Equipment - construction equipment

Off-road Equipment - construction equipment

Off-road Equipment - construction equipment

Off-road Equipment - Construction Equipment

Off-road Equipment - Construction Equipment

Off-road Equipment - construction equipment

Off-road Equipment - construction equipment

Trips and VMT - Project soil export and import hauling length would be from moving material onsite.

Demolition -

Grading - 945000 cf onsite earthwork haulage... 1,500' only though 0.5 mile was assumed. 312 ac with multiple passes

Architectural Coating - rule 67 paint

Vehicle Trips - per TS 396 units to generate 3,990 trips 10.08 trips per average unit. Parks would be primarily for project usage and would not generate trips per TS

Woodstoves - PDF - All fireplaces are Natural Gas

Area Coating - rule 67 paint

Energy Use -

Water And Wastewater -

Solid Waste -

Construction Off-road Equipment Mitigation - Tier 3 with DPF

Area Mitigation -

Energy Mitigation -

Water Mitigation -

Waste Mitigation -

Fleet Mix -

Ocean Breeze Ranch 2030 Operations - San Diego County, Summer

Table Name	Column Name	Default Value	New Value
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_Parking	250	100
tblAreaCoating	Area_EF_Residential_Exterior	250	100
tblAreaCoating	Area_EF_Residential_Interior	250	100
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tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
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tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
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tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00

Ocean Breeze Ranch 2030 Operations - San Diego County, Summer

tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
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tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
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tblConstructionPhase	NumDays	240.00	90.00

Ocean Breeze Ranch 2030 Operations - San Diego County, Summer

tblConstructionPhase	NumDays	620.00	285.00
tblConstructionPhase	NumDays	440.00	40.00
tblConstructionPhase	NumDays	6,200.00	1,488.00
tblConstructionPhase	NumDays	440.00	1,339.00
tblFireplaces	NumberGas	217.80	396.00
tblFireplaces	NumberNoFireplace	39.60	0.00
tblFireplaces	NumberWood	138.60	0.00
tblGrading	AcresOfGrading	1,567.50	1,550.00
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tblOffRoadEquipment	UsageHours	8.00	5.00

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tblOffRoadEquipment	UsageHours	8.00	4.00
tblOffRoadEquipment	UsageHours	8.00	4.00
tblOffRoadEquipment	UsageHours	7.00	3.00
tblOffRoadEquipment	UsageHours	8.00	4.00
tblProjectCharacteristics	CH4IntensityFactor	0.029	0.016
tblProjectCharacteristics	CO2IntensityFactor	720.49	402.51
tblProjectCharacteristics	N2OIntensityFactor	0.006	0.003
tblProjectCharacteristics	UrbanizationLevel	Urban	Rural
tblTripsAndVMT	HaulingTripLength	20.00	0.50
tblTripsAndVMT	HaulingTripLength	20.00	0.50
tblVehicleTrips	HO_TTP	39.60	40.00
tblVehicleTrips	HS_TTP	18.80	18.00
tblVehicleTrips	HW_TTP	41.60	42.00
tblVehicleTrips	ST_TR	22.75	0.00
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tblVehicleTrips	SU_TR	16.74	0.00
tblVehicleTrips	SU_TR	8.62	10.08
tblVehicleTrips	WD_TR	1.89	0.00
tblVehicleTrips	WD_TR	9.52	10.08
tblWoodstoves	NumberCatalytic	19.80	0.00
tblWoodstoves	NumberNoncatalytic	19.80	0.00

2.0 Emissions Summary

Ocean Breeze Ranch 2030 Operations - 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					
2022	9.2007	120.0495	66.5979	0.1831	37.1095	3.8208	38.7423	12.0670	3.5212	14.3650	0.0000	18,198.93 63	18,198.93 63	4.9315	0.0000	18,322.22 40
2023	8.2734	104.8423	63.6088	0.2242	24.9963	3.2897	28.2860	10.8232	3.0315	13.8547	0.0000	23,058.72 40	23,058.72 40	4.8348	0.0000	23,089.86 63
2024	13.5189	37.8670	55.1640	0.2430	18.0043	0.4441	18.4484	4.8281	0.4185	5.2466	0.0000	24,943.50 84	24,943.50 84	1.2741	0.0000	24,975.36 06
2025	13.2190	36.7510	52.4227	0.2368	18.0043	0.3970	18.4013	4.8281	0.3739	5.2020	0.0000	24,327.83 91	24,327.83 91	1.2394	0.0000	24,358.82 43
2026	13.0048	36.1716	50.1681	0.2313	18.0043	0.3931	18.3974	4.8281	0.3703	5.1984	0.0000	23,788.61 52	23,788.61 52	1.2117	0.0000	23,818.90 71
2027	12.7927	35.6328	48.1727	0.2264	18.0043	0.3874	18.3916	4.8281	0.3649	5.1930	0.0000	23,312.12 88	23,312.12 88	1.1876	0.0000	23,341.81 81
2028	12.5717	35.1716	46.4709	0.2222	18.0043	0.3802	18.3845	4.8281	0.3583	5.1864	0.0000	22,896.21 33	22,896.21 33	1.1668	0.0000	22,925.38 23
2029	12.3327	34.7143	44.8469	0.2184	18.0043	0.3736	18.3779	4.8281	0.3522	5.1803	0.0000	22,526.29 38	22,526.29 38	1.1486	0.0000	22,555.00 84
Maximum	13.5189	120.0495	66.5979	0.2430	37.1095	3.8208	38.7423	12.0670	3.5212	14.3650	0.0000	24,943.50 84	24,943.50 84	4.9315	0.0000	24,975.36 06

Ocean Breeze Ranch 2030 Operations - 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	20.0775	6.9446	35.3843	0.0437		0.7123	0.7123		0.7123	0.7123	0.0000	8,444.7196	8,444.7196	0.2168	0.1537	8,495.9545
Energy	0.2736	2.3383	0.9950	0.0149		0.1891	0.1891		0.1891	0.1891		2,985.0831	2,985.0831	0.0572	0.0547	3,002.8220
Mobile	5.1033	20.5187	66.3105	0.2824	31.4203	0.1732	31.5935	8.3941	0.1609	8.5550		28,903.7845	28,903.7845	1.3159		28,936.6817
Total	25.4544	29.8017	102.6899	0.3410	31.4203	1.0746	32.4948	8.3941	1.0623	9.4564	0.0000	40,333.5872	40,333.5872	1.5899	0.2085	40,435.4582

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	20.0775	6.9446	35.3843	0.0437		0.7123	0.7123		0.7123	0.7123	0.0000	8,444.7196	8,444.7196	0.2168	0.1537	8,495.9545
Energy	0.2736	2.3383	0.9950	0.0149		0.1891	0.1891		0.1891	0.1891		2,985.0831	2,985.0831	0.0572	0.0547	3,002.8220
Mobile	5.1033	20.5187	66.3105	0.2824	31.4203	0.1732	31.5935	8.3941	0.1609	8.5550		28,903.7845	28,903.7845	1.3159		28,936.6817
Total	25.4544	29.8017	102.6899	0.3410	31.4203	1.0746	32.4948	8.3941	1.0623	9.4564	0.0000	40,333.5872	40,333.5872	1.5899	0.2085	40,435.4582

Ocean Breeze Ranch 2030 Operations - 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
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	3/1/2022	3/21/2022	5	15	
2	Site Preparation	Site Preparation	3/22/2022	7/25/2022	5	90	
3	Grading	Grading	7/26/2022	8/28/2023	5	285	
4	Paving	Paving	8/29/2023	10/23/2023	5	40	
5	Building Construction	Building Construction	10/24/2023	7/5/2029	5	1488	
6	Architectural Coating	Architectural Coating	5/20/2024	7/5/2029	5	1339	

Acres of Grading (Site Preparation Phase): 1550

Acres of Grading (Grading Phase): 1550

Acres of Paving: 32

Residential Indoor: 1,443,420; Residential Outdoor: 481,140; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 83,635 (Architectural Coating – sqft)

OffRoad Equipment

Ocean Breeze Ranch 2030 Operations - San Diego County, Summer

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Excavators	1	5.00	158	0.38
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Bore/Drill Rigs	2	3.00	221	0.50
Grading	Crushing/Proc. Equipment	1	3.00	85	0.78
Grading	Excavators	3	8.00	158	0.38
Grading	Graders	3	8.00	187	0.41
Grading	Rubber Tired Dozers	3	8.00	247	0.40
Grading	Scrapers	4	8.00	367	0.48
Grading	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Building Construction	Cranes	1	3.00	231	0.29
Building Construction	Forklifts	3	4.00	89	0.20
Building Construction	Generator Sets	1	4.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	3.00	97	0.37
Building Construction	Welders	1	4.00	46	0.45
Architectural Coating	Air Compressors	1	3.00	78	0.48

Trips and VMT

Ocean Breeze Ranch 2030 Operations - 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	1	3.00	0.00	68.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	31,250.00	16.80	6.60	0.50	LD_Mix	HDT_Mix	HHDT
Grading	19	48.00	0.00	86,875.00	16.80	6.60	0.50	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	1,021.00	385.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	204.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Use DPF for Construction Equipment

3.2 Demolition - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.9966	0.0000	0.9966	0.1509	0.0000	0.1509			0.0000			0.0000
Off-Road	0.1265	1.1106	2.0345	3.2300e-003		0.0537	0.0537		0.0494	0.0494		312.5096	312.5096	0.1011		315.0363
Total	0.1265	1.1106	2.0345	3.2300e-003	0.9966	0.0537	1.0503	0.1509	0.0494	0.2003		312.5096	312.5096	0.1011		315.0363

Ocean Breeze Ranch 2030 Operations - San Diego County, Summer

3.2 Demolition - 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	0.0316	1.0634	0.2825	3.4400e-003	0.0792	3.0000e-003	0.0822	0.0217	2.8700e-003	0.0246		378.3738	378.3738	0.0335		379.2121
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0136	9.1500e-003	0.1091	3.6000e-004	0.0383	2.5000e-004	0.0386	0.0102	2.3000e-004	0.0104		36.2527	36.2527	9.6000e-004		36.2768
Total	0.0452	1.0725	0.3916	3.8000e-003	0.1175	3.2500e-003	0.1208	0.0319	3.1000e-003	0.0350		414.6266	414.6266	0.0345		415.4889

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.9966	0.0000	0.9966	0.1509	0.0000	0.1509			0.0000			0.0000
Off-Road	0.0794	1.5354	2.4488	3.2300e-003		0.0111	0.0111		0.0111	0.0111	0.0000	312.5096	312.5096	0.1011		315.0363
Total	0.0794	1.5354	2.4488	3.2300e-003	0.9966	0.0111	1.0078	0.1509	0.0111	0.1621	0.0000	312.5096	312.5096	0.1011		315.0363

Ocean Breeze Ranch 2030 Operations - San Diego County, Summer

3.2 Demolition - 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	0.0316	1.0634	0.2825	3.4400e-003	0.0792	3.0000e-003	0.0822	0.0217	2.8700e-003	0.0246		378.3738	378.3738	0.0335		379.2121
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0136	9.1500e-003	0.1091	3.6000e-004	0.0383	2.5000e-004	0.0386	0.0102	2.3000e-004	0.0104		36.2527	36.2527	9.6000e-004		36.2768
Total	0.0452	1.0725	0.3916	3.8000e-003	0.1175	3.2500e-003	0.1208	0.0319	3.1000e-003	0.0350		414.6266	414.6266	0.0345		415.4889

3.3 Site Preparation - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					36.7208	0.0000	36.7208	11.9619	0.0000	11.9619			0.0000			0.0000
Off-Road	3.1701	33.0835	19.6978	0.0380		1.6126	1.6126		1.4836	1.4836		3,686.0619	3,686.0619	1.1922		3,715.8655
Total	3.1701	33.0835	19.6978	0.0380	36.7208	1.6126	38.3333	11.9619	1.4836	13.4455		3,686.0619	3,686.0619	1.1922		3,715.8655

Ocean Breeze Ranch 2030 Operations - San Diego County, Summer

3.3 Site Preparation - 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	0.5695	32.7013	4.3327	0.0416	0.1588	0.0187	0.1776	0.0442	0.0179	0.0621		4,550.2516	4,550.2516	0.6540		4,566.6018
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0819	0.0549	0.6546	2.1800e-003	0.2299	1.4900e-003	0.2314	0.0610	1.3800e-003	0.0624		217.5164	217.5164	5.7600e-003		217.6605
Total	0.6513	32.7562	4.9873	0.0438	0.3888	0.0202	0.4090	0.1051	0.0193	0.1244		4,767.7681	4,767.7681	0.6598		4,784.2623

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					36.7208	0.0000	36.7208	11.9619	0.0000	11.9619			0.0000			0.0000
Off-Road	0.9312	19.0656	22.9600	0.0380		0.1419	0.1419		0.1419	0.1419	0.0000	3,686.0619	3,686.0619	1.1922		3,715.8655
Total	0.9312	19.0656	22.9600	0.0380	36.7208	0.1419	36.8627	11.9619	0.1419	12.1038	0.0000	3,686.0619	3,686.0619	1.1922		3,715.8655

Ocean Breeze Ranch 2030 Operations - San Diego County, Summer

3.3 Site Preparation - 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	0.5695	32.7013	4.3327	0.0416	0.1588	0.0187	0.1776	0.0442	0.0179	0.0621		4,550.2516	4,550.2516	0.6540		4,566.6018
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0819	0.0549	0.6546	2.1800e-003	0.2299	1.4900e-003	0.2314	0.0610	1.3800e-003	0.0624		217.5164	217.5164	5.7600e-003		217.6605
Total	0.6513	32.7562	4.9873	0.0438	0.3888	0.0202	0.4090	0.1051	0.0193	0.1244		4,767.7681	4,767.7681	0.6598		4,784.2623

3.4 Grading - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					24.1766	0.0000	24.1766	10.6053	0.0000	10.6053			0.0000			0.0000
Off-Road	8.4825	91.1948	61.0488	0.1408		3.8004	3.8004		3.5018	3.5018		13,624.2506	13,624.2506	4.3420		13,732.8003
Total	8.4825	91.1948	61.0488	0.1408	24.1766	3.8004	27.9770	10.6053	3.5018	14.1071		13,624.2506	13,624.2506	4.3420		13,732.8003

Ocean Breeze Ranch 2030 Operations - San Diego County, Summer

3.4 Grading - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.4999	28.7083	3.8036	0.0365	0.2906	0.0164	0.3070	0.0759	0.0157	0.0916		3,994.6420	3,994.6420	0.5742		4,008.9957
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.2183	0.1464	1.7455	5.8200e-003	0.6131	3.9800e-003	0.6171	0.1626	3.6700e-003	0.1663		580.0438	580.0438	0.0154		580.4280
Total	0.7182	28.8547	5.5492	0.0423	0.9037	0.0204	0.9241	0.2385	0.0194	0.2579		4,574.6857	4,574.6857	0.5895		4,589.4237

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					24.1766	0.0000	24.1766	10.6053	0.0000	10.6053			0.0000			0.0000
Off-Road	3.4426	67.5377	80.6543	0.1408		0.4266	0.4266		0.4266	0.4266	0.0000	13,624.2506	13,624.2506	4.3420		13,732.8002
Total	3.4426	67.5377	80.6543	0.1408	24.1766	0.4266	24.6031	10.6053	0.4266	11.0319	0.0000	13,624.2506	13,624.2506	4.3420		13,732.8002

Ocean Breeze Ranch 2030 Operations - San Diego County, Summer

3.4 Grading - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.4999	28.7083	3.8036	0.0365	0.2906	0.0164	0.3070	0.0759	0.0157	0.0916		3,994.6420	3,994.6420	0.5742		4,008.9957
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.2183	0.1464	1.7455	5.8200e-003	0.6131	3.9800e-003	0.6171	0.1626	3.6700e-003	0.1663		580.0438	580.0438	0.0154		580.4280
Total	0.7182	28.8547	5.5492	0.0423	0.9037	0.0204	0.9241	0.2385	0.0194	0.2579		4,574.6857	4,574.6857	0.5895		4,589.4237

3.4 Grading - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					24.1766	0.0000	24.1766	10.6053	0.0000	10.6053			0.0000			0.0000
Off-Road	7.7017	80.3758	58.5593	0.1408		3.2765	3.2765		3.0190	3.0190		13,624.8804	13,624.8804	4.3409		13,733.4023
Total	7.7017	80.3758	58.5593	0.1408	24.1766	3.2765	27.4530	10.6053	3.0190	13.6243		13,624.8804	13,624.8804	4.3409		13,733.4023

Ocean Breeze Ranch 2030 Operations - San Diego County, Summer

3.4 Grading - 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	0.3646	24.3327	3.4269	0.0351	0.2066	9.3600e-003	0.2160	0.0553	8.9500e-003	0.0642		3,852.0340	3,852.0340	0.4799		3,864.0309
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.2070	0.1338	1.6225	5.5900e-003	0.6131	3.9000e-003	0.6170	0.1626	3.5900e-003	0.1662		557.8541	557.8541	0.0141		558.2060
Total	0.5717	24.4665	5.0494	0.0406	0.8197	0.0133	0.8330	0.2179	0.0125	0.2304		4,409.8881	4,409.8881	0.4940		4,422.2369

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					24.1766	0.0000	24.1766	10.6053	0.0000	10.6053			0.0000			0.0000
Off-Road	3.4426	67.5377	80.6543	0.1408		0.4266	0.4266		0.4266	0.4266	0.0000	13,624.8804	13,624.8804	4.3409		13,733.4023
Total	3.4426	67.5377	80.6543	0.1408	24.1766	0.4266	24.6031	10.6053	0.4266	11.0319	0.0000	13,624.8804	13,624.8804	4.3409		13,733.4023

Ocean Breeze Ranch 2030 Operations - San Diego County, Summer

3.4 Grading - 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	0.3646	24.3327	3.4269	0.0351	0.2066	9.3600e-003	0.2160	0.0553	8.9500e-003	0.0642		3,852.0340	3,852.0340	0.4799		3,864.0309
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.2070	0.1338	1.6225	5.5900e-003	0.6131	3.9000e-003	0.6170	0.1626	3.5900e-003	0.1662		557.8541	557.8541	0.0141		558.2060
Total	0.5717	24.4665	5.0494	0.0406	0.8197	0.0133	0.8330	0.2179	0.0125	0.2304		4,409.8881	4,409.8881	0.4940		4,422.2369

3.5 Paving - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.0327	10.1917	14.5842	0.0228		0.5102	0.5102		0.4694	0.4694		2,207.5841	2,207.5841	0.7140		2,225.4336
Paving	2.0960					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	3.1287	10.1917	14.5842	0.0228		0.5102	0.5102		0.4694	0.4694		2,207.5841	2,207.5841	0.7140		2,225.4336

Ocean Breeze Ranch 2030 Operations - San Diego County, Summer

3.5 Paving - 2023

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0647	0.0418	0.5070	1.7500e-003	0.1916	1.2200e-003	0.1928	0.0508	1.1200e-003	0.0519		174.3294	174.3294	4.4000e-003		174.4394
Total	0.0647	0.0418	0.5070	1.7500e-003	0.1916	1.2200e-003	0.1928	0.0508	1.1200e-003	0.0519		174.3294	174.3294	4.4000e-003		174.4394

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.5609	11.2952	17.2957	0.0228		0.0914	0.0914		0.0914	0.0914	0.0000	2,207.5841	2,207.5841	0.7140		2,225.4336
Paving	2.0960					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	2.6569	11.2952	17.2957	0.0228		0.0914	0.0914		0.0914	0.0914	0.0000	2,207.5841	2,207.5841	0.7140		2,225.4336

Ocean Breeze Ranch 2030 Operations - San Diego County, Summer

3.5 Paving - 2023

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0647	0.0418	0.5070	1.7500e-003	0.1916	1.2200e-003	0.1928	0.0508	1.1200e-003	0.0519		174.3294	174.3294	4.4000e-003		174.4394
Total	0.0647	0.0418	0.5070	1.7500e-003	0.1916	1.2200e-003	0.1928	0.0508	1.1200e-003	0.0519		174.3294	174.3294	4.4000e-003		174.4394

3.6 Building Construction - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.7360	6.6660	7.5890	0.0125		0.3257	0.3257		0.3070	0.3070		1,186.1332	1,186.1332	0.2743		1,192.9916
Total	0.7360	6.6660	7.5890	0.0125		0.3257	0.3257		0.3070	0.3070		1,186.1332	1,186.1332	0.2743		1,192.9916

Ocean Breeze Ranch 2030 Operations - San Diego County, Summer

3.6 Building Construction - 2023

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.7902	28.2754	8.2360	0.0926	2.3573	0.0316	2.3889	0.6787	0.0302	0.7089		10,006.5692	10,006.5692	0.6720		10,023.3687
Worker	4.4040	2.8465	34.5121	0.1190	13.0413	0.0830	13.1243	3.4584	0.0765	3.5349		11,866.0216	11,866.0216	0.2994		11,873.5060
Total	5.1942	31.1219	42.7482	0.2116	15.3986	0.1146	15.5132	4.1371	0.1066	4.2438		21,872.5909	21,872.5909	0.9714		21,896.8746

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	0.3139	6.6165	8.3058	0.0125		0.0634	0.0634		0.0634	0.0634	0.0000	1,186.1332	1,186.1332	0.2743		1,192.9916
Total	0.3139	6.6165	8.3058	0.0125		0.0634	0.0634		0.0634	0.0634	0.0000	1,186.1332	1,186.1332	0.2743		1,192.9916

Ocean Breeze Ranch 2030 Operations - San Diego County, Summer

3.6 Building Construction - 2023

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.7902	28.2754	8.2360	0.0926	2.3573	0.0316	2.3889	0.6787	0.0302	0.7089		10,006.5692	10,006.5692	0.6720		10,023.3687
Worker	4.4040	2.8465	34.5121	0.1190	13.0413	0.0830	13.1243	3.4584	0.0765	3.5349		11,866.0216	11,866.0216	0.2994		11,873.5060
Total	5.1942	31.1219	42.7482	0.2116	15.3986	0.1146	15.5132	4.1371	0.1066	4.2438		21,872.5909	21,872.5909	0.9714		21,896.8746

3.6 Building Construction - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.6881	6.2313	7.5533	0.0125		0.2851	0.2851		0.2686	0.2686		1,186.3427	1,186.3427	0.2726		1,193.1572
Total	0.6881	6.2313	7.5533	0.0125		0.2851	0.2851		0.2686	0.2686		1,186.3427	1,186.3427	0.2726		1,193.1572

Ocean Breeze Ranch 2030 Operations - San Diego County, Summer

3.6 Building Construction - 2024

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.7616	27.8911	7.9678	0.0919	2.3573	0.0308	2.3881	0.6787	0.0294	0.7081		9,940.8157	9,940.8157	0.6632		9,957.3967
Worker	4.1902	2.6131	32.2868	0.1143	13.0413	0.0815	13.1228	3.4584	0.0750	3.5334		11,398.2156	11,398.2156	0.2753		11,405.0989
Total	4.9518	30.5042	40.2546	0.2062	15.3986	0.1122	15.5108	4.1371	0.1044	4.2415		21,339.0313	21,339.0313	0.9386		21,362.4956

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	0.3139	6.6165	8.3058	0.0125		0.0634	0.0634		0.0634	0.0634	0.0000	1,186.3427	1,186.3427	0.2726		1,193.1572
Total	0.3139	6.6165	8.3058	0.0125		0.0634	0.0634		0.0634	0.0634	0.0000	1,186.3427	1,186.3427	0.2726		1,193.1572

Ocean Breeze Ranch 2030 Operations - San Diego County, Summer

3.6 Building Construction - 2024

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.7616	27.8911	7.9678	0.0919	2.3573	0.0308	2.3881	0.6787	0.0294	0.7081		9,940.8157	9,940.8157	0.6632		9,957.3967
Worker	4.1902	2.6131	32.2868	0.1143	13.0413	0.0815	13.1228	3.4584	0.0750	3.5334		11,398.2156	11,398.2156	0.2753		11,405.0989
Total	4.9518	30.5042	40.2546	0.2062	15.3986	0.1122	15.5108	4.1371	0.1044	4.2415		21,339.0313	21,339.0313	0.9386		21,362.4956

3.6 Building Construction - 2025

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.6394	5.7865	7.5157	0.0125		0.2452	0.2452		0.2311	0.2311		1,186.6751	1,186.6751	0.2709		1,193.4466
Total	0.6394	5.7865	7.5157	0.0125		0.2452	0.2452		0.2311	0.2311		1,186.6751	1,186.6751	0.2709		1,193.4466

Ocean Breeze Ranch 2030 Operations - San Diego County, Summer

3.6 Building Construction - 2025

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.7386	27.4987	7.8036	0.0912	2.3573	0.0299	2.3872	0.6787	0.0285	0.7073		9,878.4080	9,878.4080	0.6557		9,894.8001
Worker	4.0041	2.4112	30.1706	0.1097	13.0413	0.0802	13.1215	3.4584	0.0738	3.5322		10,936.8120	10,936.8120	0.2544		10,943.1711
Total	4.7427	29.9099	37.9742	0.2008	15.3986	0.1101	15.5086	4.1371	0.1023	4.2395		20,815.2200	20,815.2200	0.9100		20,837.9712

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	0.3139	6.6165	8.3058	0.0125		0.0634	0.0634		0.0634	0.0634	0.0000	1,186.6751	1,186.6751	0.2709		1,193.4466
Total	0.3139	6.6165	8.3058	0.0125		0.0634	0.0634		0.0634	0.0634	0.0000	1,186.6751	1,186.6751	0.2709		1,193.4466

Ocean Breeze Ranch 2030 Operations - San Diego County, Summer

3.6 Building Construction - 2025

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.7386	27.4987	7.8036	0.0912	2.3573	0.0299	2.3872	0.6787	0.0285	0.7073		9,878.4080	9,878.4080	0.6557		9,894.8001
Worker	4.0041	2.4112	30.1706	0.1097	13.0413	0.0802	13.1215	3.4584	0.0738	3.5322		10,936.8120	10,936.8120	0.2544		10,943.1711
Total	4.7427	29.9099	37.9742	0.2008	15.3986	0.1101	15.5086	4.1371	0.1023	4.2395		20,815.2200	20,815.2200	0.9100		20,837.9712

3.6 Building Construction - 2026

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.6394	5.7865	7.5157	0.0125		0.2452	0.2452		0.2311	0.2311		1,186.6751	1,186.6751	0.2709		1,193.4466
Total	0.6394	5.7865	7.5157	0.0125		0.2452	0.2452		0.2311	0.2311		1,186.6751	1,186.6751	0.2709		1,193.4466

Ocean Breeze Ranch 2030 Operations - San Diego County, Summer

3.6 Building Construction - 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
Vendor	0.7195	27.1192	7.6900	0.0905	2.3573	0.0290	2.3863	0.6787	0.0277	0.7064		9,819.9429	9,819.9429	0.6485		9,836.1557
Worker	3.8415	2.2447	28.3862	0.1056	13.0413	0.0776	13.1189	3.4584	0.0715	3.5299		10,536.1143	10,536.1143	0.2372		10,542.0450
Total	4.5610	29.3639	36.0761	0.1962	15.3986	0.1067	15.5052	4.1371	0.0992	4.2363		20,356.0572	20,356.0572	0.8857		20,378.2006

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	0.3139	6.6165	8.3058	0.0125		0.0634	0.0634		0.0634	0.0634	0.0000	1,186.6751	1,186.6751	0.2709		1,193.4466
Total	0.3139	6.6165	8.3058	0.0125		0.0634	0.0634		0.0634	0.0634	0.0000	1,186.6751	1,186.6751	0.2709		1,193.4466

Ocean Breeze Ranch 2030 Operations - San Diego County, Summer

3.6 Building Construction - 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
Vendor	0.7195	27.1192	7.6900	0.0905	2.3573	0.0290	2.3863	0.6787	0.0277	0.7064		9,819.9429	9,819.9429	0.6485		9,836.1557
Worker	3.8415	2.2447	28.3862	0.1056	13.0413	0.0776	13.1189	3.4584	0.0715	3.5299		10,536.1143	10,536.1143	0.2372		10,542.0450
Total	4.5610	29.3639	36.0761	0.1962	15.3986	0.1067	15.5052	4.1371	0.0992	4.2363		20,356.0572	20,356.0572	0.8857		20,378.2006

3.6 Building Construction - 2027

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.6394	5.7865	7.5157	0.0125		0.2452	0.2452		0.2311	0.2311		1,186.6751	1,186.6751	0.2709		1,193.4466
Total	0.6394	5.7865	7.5157	0.0125		0.2452	0.2452		0.2311	0.2311		1,186.6751	1,186.6751	0.2709		1,193.4466

Ocean Breeze Ranch 2030 Operations - San Diego County, Summer

3.6 Building Construction - 2027

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.7033	26.7574	7.5933	0.0899	2.3573	0.0283	2.3857	0.6787	0.0271	0.7058		9,766.6693	9,766.6693	0.6423		9,782.7273
Worker	3.6782	2.0971	26.8036	0.1021	13.0413	0.0734	13.1147	3.4584	0.0675	3.5260		10,183.3793	10,183.3793	0.2223		10,188.9367
Total	4.3816	28.8545	34.3969	0.1920	15.3986	0.1017	15.5003	4.1371	0.0946	4.2317		19,950.0487	19,950.0487	0.8646		19,971.6641

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	0.3139	6.6165	8.3058	0.0125		0.0634	0.0634		0.0634	0.0634	0.0000	1,186.6751	1,186.6751	0.2709		1,193.4466
Total	0.3139	6.6165	8.3058	0.0125		0.0634	0.0634		0.0634	0.0634	0.0000	1,186.6751	1,186.6751	0.2709		1,193.4466

Ocean Breeze Ranch 2030 Operations - San Diego County, Summer

3.6 Building Construction - 2027

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.7033	26.7574	7.5933	0.0899	2.3573	0.0283	2.3857	0.6787	0.0271	0.7058		9,766.6693	9,766.6693	0.6423		9,782.7273
Worker	3.6782	2.0971	26.8036	0.1021	13.0413	0.0734	13.1147	3.4584	0.0675	3.5260		10,183.3793	10,183.3793	0.2223		10,188.9367
Total	4.3816	28.8545	34.3969	0.1920	15.3986	0.1017	15.5003	4.1371	0.0946	4.2317		19,950.0487	19,950.0487	0.8646		19,971.6641

3.6 Building Construction - 2028

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.6394	5.7865	7.5157	0.0125		0.2452	0.2452		0.2311	0.2311		1,186.6751	1,186.6751	0.2709		1,193.4466
Total	0.6394	5.7865	7.5157	0.0125		0.2452	0.2452		0.2311	0.2311		1,186.6751	1,186.6751	0.2709		1,193.4466

Ocean Breeze Ranch 2030 Operations - San Diego County, Summer

3.6 Building Construction - 2028

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.6907	26.4528	7.5442	0.0894	2.3573	0.0278	2.3851	0.6787	0.0265	0.7052		9,721.807 1	9,721.807 1	0.6367		9,737.723 9
Worker	3.5045	1.9666	25.4262	0.0990	13.0413	0.0679	13.1092	3.4584	0.0625	3.5209		9,874.117 8	9,874.117 8	0.2097		9,879.359 2
Total	4.1952	28.4194	32.9704	0.1884	15.3986	0.0957	15.4943	4.1371	0.0890	4.2261		19,595.92 49	19,595.92 49	0.8463		19,617.08 31

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	0.3139	6.6165	8.3058	0.0125		0.0634	0.0634		0.0634	0.0634	0.0000	1,186.675 1	1,186.675 1	0.2709		1,193.446 6
Total	0.3139	6.6165	8.3058	0.0125		0.0634	0.0634		0.0634	0.0634	0.0000	1,186.675 1	1,186.675 1	0.2709		1,193.446 6

Ocean Breeze Ranch 2030 Operations - San Diego County, Summer

3.6 Building Construction - 2028

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.6907	26.4528	7.5442	0.0894	2.3573	0.0278	2.3851	0.6787	0.0265	0.7052		9,721.807 1	9,721.807 1	0.6367		9,737.723 9
Worker	3.5045	1.9666	25.4262	0.0990	13.0413	0.0679	13.1092	3.4584	0.0625	3.5209		9,874.117 8	9,874.117 8	0.2097		9,879.359 2
Total	4.1952	28.4194	32.9704	0.1884	15.3986	0.0957	15.4943	4.1371	0.0890	4.2261		19,595.92 49	19,595.92 49	0.8463		19,617.08 31

3.6 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	0.6394	5.7865	7.5157	0.0125		0.2452	0.2452		0.2311	0.2311		1,186.675 1	1,186.675 1	0.2709		1,193.446 6
Total	0.6394	5.7865	7.5157	0.0125		0.2452	0.2452		0.2311	0.2311		1,186.675 1	1,186.675 1	0.2709		1,193.446 6

Ocean Breeze Ranch 2030 Operations - San Diego County, Summer

3.6 Building Construction - 2029

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.6786	26.1397	7.4890	0.0889	2.3573	0.0271	2.3844	0.6787	0.0259	0.7046		9,677.797 1	9,677.797 1	0.6325		9,693.610 3
Worker	3.3154	1.8464	24.1186	0.0962	13.0413	0.0630	13.1043	3.4584	0.0579	3.5164		9,602.482 2	9,602.482 2	0.1980		9,607.431 3
Total	3.9940	27.9861	31.6076	0.1852	15.3986	0.0901	15.4887	4.1371	0.0838	4.2210		19,280.27 93	19,280.27 93	0.8305		19,301.04 16

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	0.3139	6.6165	8.3058	0.0125		0.0634	0.0634		0.0634	0.0634	0.0000	1,186.675 1	1,186.675 1	0.2709		1,193.446 6
Total	0.3139	6.6165	8.3058	0.0125		0.0634	0.0634		0.0634	0.0634	0.0000	1,186.675 1	1,186.675 1	0.2709		1,193.446 6

Ocean Breeze Ranch 2030 Operations - San Diego County, Summer

3.6 Building Construction - 2029

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.6786	26.1397	7.4890	0.0889	2.3573	0.0271	2.3844	0.6787	0.0259	0.7046		9,677.797 1	9,677.797 1	0.6325		9,693.610 3
Worker	3.3154	1.8464	24.1186	0.0962	13.0413	0.0630	13.1043	3.4584	0.0579	3.5164		9,602.482 2	9,602.482 2	0.1980		9,607.431 3
Total	3.9940	27.9861	31.6076	0.1852	15.3986	0.0901	15.4887	4.1371	0.0838	4.2210		19,280.27 93	19,280.27 93	0.8305		19,301.04 16

3.7 Architectural Coating - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	6.9514					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.0904	0.6094	0.9051	1.4900e-003		0.0305	0.0305		0.0305	0.0305		140.7240	140.7240	7.9200e-003		140.9221
Total	7.0418	0.6094	0.9051	1.4900e-003		0.0305	0.0305		0.0305	0.0305		140.7240	140.7240	7.9200e-003		140.9221

Ocean Breeze Ranch 2030 Operations - San Diego County, Summer

3.7 Architectural Coating - 2024

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.8372	0.5221	6.4510	0.0228	2.6057	0.0163	2.6220	0.6910	0.0150	0.7060		2,277.410 4	2,277.410 4	0.0550		2,278.785 7
Total	0.8372	0.5221	6.4510	0.0228	2.6057	0.0163	2.6220	0.6910	0.0150	0.7060		2,277.410 4	2,277.410 4	0.0550		2,278.785 7

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	6.9514					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.0297	0.6785	0.9162	1.4900e-003		7.1300e-003	7.1300e-003		7.1300e-003	7.1300e-003	0.0000	140.7240	140.7240	7.9200e-003		140.9221
Total	6.9812	0.6785	0.9162	1.4900e-003		7.1300e-003	7.1300e-003		7.1300e-003	7.1300e-003	0.0000	140.7240	140.7240	7.9200e-003		140.9221

Ocean Breeze Ranch 2030 Operations - San Diego County, Summer

3.7 Architectural Coating - 2024

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.8372	0.5221	6.4510	0.0228	2.6057	0.0163	2.6220	0.6910	0.0150	0.7060		2,277.410 4	2,277.410 4	0.0550		2,278.785 7
Total	0.8372	0.5221	6.4510	0.0228	2.6057	0.0163	2.6220	0.6910	0.0150	0.7060		2,277.410 4	2,277.410 4	0.0550		2,278.785 7

3.7 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	6.9514					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.0854	0.5728	0.9046	1.4900e-003		0.0258	0.0258		0.0258	0.0258		140.7240	140.7240	7.6800e-003		140.9159
Total	7.0369	0.5728	0.9046	1.4900e-003		0.0258	0.0258		0.0258	0.0258		140.7240	140.7240	7.6800e-003		140.9159

Ocean Breeze Ranch 2030 Operations - San Diego County, Summer

3.7 Architectural Coating - 2025

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.8000	0.4818	6.0282	0.0219	2.6057	0.0160	2.6217	0.6910	0.0148	0.7058		2,185.2200	2,185.2200	0.0508		2,186.4906
Total	0.8000	0.4818	6.0282	0.0219	2.6057	0.0160	2.6217	0.6910	0.0148	0.7058		2,185.2200	2,185.2200	0.0508		2,186.4906

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	6.9514					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.0297	0.6785	0.9162	1.4900e-003		7.1300e-003	7.1300e-003		7.1300e-003	7.1300e-003	0.0000	140.7240	140.7240	7.6800e-003		140.9159
Total	6.9812	0.6785	0.9162	1.4900e-003		7.1300e-003	7.1300e-003		7.1300e-003	7.1300e-003	0.0000	140.7240	140.7240	7.6800e-003		140.9159

Ocean Breeze Ranch 2030 Operations - San Diego County, Summer

3.7 Architectural Coating - 2025

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.8000	0.4818	6.0282	0.0219	2.6057	0.0160	2.6217	0.6910	0.0148	0.7058		2,185.2200	2,185.2200	0.0508		2,186.4906
Total	0.8000	0.4818	6.0282	0.0219	2.6057	0.0160	2.6217	0.6910	0.0148	0.7058		2,185.2200	2,185.2200	0.0508		2,186.4906

3.7 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	6.9514					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.0854	0.5728	0.9046	1.4900e-003		0.0258	0.0258		0.0258	0.0258		140.7240	140.7240	7.6800e-003		140.9159
Total	7.0369	0.5728	0.9046	1.4900e-003		0.0258	0.0258		0.0258	0.0258		140.7240	140.7240	7.6800e-003		140.9159

Ocean Breeze Ranch 2030 Operations - San Diego County, Summer

3.7 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
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.7676	0.4485	5.6717	0.0211	2.6057	0.0155	2.6212	0.6910	0.0143	0.7053		2,105.1590	2,105.1590	0.0474		2,106.3440
Total	0.7676	0.4485	5.6717	0.0211	2.6057	0.0155	2.6212	0.6910	0.0143	0.7053		2,105.1590	2,105.1590	0.0474		2,106.3440

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	6.9514					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.0297	0.6785	0.9162	1.4900e-003		7.1300e-003	7.1300e-003		7.1300e-003	7.1300e-003	0.0000	140.7240	140.7240	7.6800e-003		140.9159
Total	6.9812	0.6785	0.9162	1.4900e-003		7.1300e-003	7.1300e-003		7.1300e-003	7.1300e-003	0.0000	140.7240	140.7240	7.6800e-003		140.9159

Ocean Breeze Ranch 2030 Operations - San Diego County, Summer

3.7 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
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.7676	0.4485	5.6717	0.0211	2.6057	0.0155	2.6212	0.6910	0.0143	0.7053		2,105.1590	2,105.1590	0.0474		2,106.3440
Total	0.7676	0.4485	5.6717	0.0211	2.6057	0.0155	2.6212	0.6910	0.0143	0.7053		2,105.1590	2,105.1590	0.0474		2,106.3440

3.7 Architectural Coating - 2027

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	6.9514					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.0854	0.5728	0.9046	1.4900e-003		0.0258	0.0258		0.0258	0.0258		140.7240	140.7240	7.6800e-003		140.9159
Total	7.0369	0.5728	0.9046	1.4900e-003		0.0258	0.0258		0.0258	0.0258		140.7240	140.7240	7.6800e-003		140.9159

Ocean Breeze Ranch 2030 Operations - San Diego County, Summer

3.7 Architectural Coating - 2027

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.7349	0.4190	5.3555	0.0204	2.6057	0.0147	2.6204	0.6910	0.0135	0.7045		2,034.681 1	2,034.681 1	0.0444		2,035.791 5
Total	0.7349	0.4190	5.3555	0.0204	2.6057	0.0147	2.6204	0.6910	0.0135	0.7045		2,034.681 1	2,034.681 1	0.0444		2,035.791 5

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	6.9514					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.0297	0.6785	0.9162	1.4900e-003		7.1300e-003	7.1300e-003		7.1300e-003	7.1300e-003	0.0000	140.7240	140.7240	7.6800e-003		140.9159
Total	6.9812	0.6785	0.9162	1.4900e-003		7.1300e-003	7.1300e-003		7.1300e-003	7.1300e-003	0.0000	140.7240	140.7240	7.6800e-003		140.9159

Ocean Breeze Ranch 2030 Operations - San Diego County, Summer

3.7 Architectural Coating - 2027

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.7349	0.4190	5.3555	0.0204	2.6057	0.0147	2.6204	0.6910	0.0135	0.7045		2,034.681 1	2,034.681 1	0.0444		2,035.791 5
Total	0.7349	0.4190	5.3555	0.0204	2.6057	0.0147	2.6204	0.6910	0.0135	0.7045		2,034.681 1	2,034.681 1	0.0444		2,035.791 5

3.7 Architectural Coating - 2028

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	6.9514					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.0854	0.5728	0.9046	1.4900e-003		0.0258	0.0258		0.0258	0.0258		140.7240	140.7240	7.6800e-003		140.9159
Total	7.0369	0.5728	0.9046	1.4900e-003		0.0258	0.0258		0.0258	0.0258		140.7240	140.7240	7.6800e-003		140.9159

Ocean Breeze Ranch 2030 Operations - San Diego County, Summer

3.7 Architectural Coating - 2028

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.7002	0.3929	5.0803	0.0198	2.6057	0.0136	2.6193	0.6910	0.0125	0.7035		1,972.8894	1,972.8894	0.0419		1,973.9366
Total	0.7002	0.3929	5.0803	0.0198	2.6057	0.0136	2.6193	0.6910	0.0125	0.7035		1,972.8894	1,972.8894	0.0419		1,973.9366

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	6.9514					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.0297	0.6785	0.9162	1.4900e-003		7.1300e-003	7.1300e-003		7.1300e-003	7.1300e-003	0.0000	140.7240	140.7240	7.6800e-003		140.9159
Total	6.9812	0.6785	0.9162	1.4900e-003		7.1300e-003	7.1300e-003		7.1300e-003	7.1300e-003	0.0000	140.7240	140.7240	7.6800e-003		140.9159

Ocean Breeze Ranch 2030 Operations - San Diego County, Summer

3.7 Architectural Coating - 2028

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.7002	0.3929	5.0803	0.0198	2.6057	0.0136	2.6193	0.6910	0.0125	0.7035		1,972.8894	1,972.8894	0.0419		1,973.9366
Total	0.7002	0.3929	5.0803	0.0198	2.6057	0.0136	2.6193	0.6910	0.0125	0.7035		1,972.8894	1,972.8894	0.0419		1,973.9366

3.7 Architectural Coating - 2029

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	6.9514					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.0854	0.5728	0.9046	1.4900e-003		0.0258	0.0258		0.0258	0.0258		140.7240	140.7240	7.6800e-003		140.9159
Total	7.0369	0.5728	0.9046	1.4900e-003		0.0258	0.0258		0.0258	0.0258		140.7240	140.7240	7.6800e-003		140.9159

Ocean Breeze Ranch 2030 Operations - San Diego County, Summer

3.7 Architectural Coating - 2029

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.6624	0.3689	4.8190	0.0192	2.6057	0.0126	2.6183	0.6910	0.0116	0.7026		1,918.615 4	1,918.615 4	0.0396		1,919.604 3
Total	0.6624	0.3689	4.8190	0.0192	2.6057	0.0126	2.6183	0.6910	0.0116	0.7026		1,918.615 4	1,918.615 4	0.0396		1,919.604 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	6.9514					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.0297	0.6785	0.9162	1.4900e-003		7.1300e-003	7.1300e-003		7.1300e-003	7.1300e-003	0.0000	140.7240	140.7240	7.6800e-003		140.9159
Total	6.9812	0.6785	0.9162	1.4900e-003		7.1300e-003	7.1300e-003		7.1300e-003	7.1300e-003	0.0000	140.7240	140.7240	7.6800e-003		140.9159

Ocean Breeze Ranch 2030 Operations - San Diego County, Summer

3.7 Architectural Coating - 2029

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.6624	0.3689	4.8190	0.0192	2.6057	0.0126	2.6183	0.6910	0.0116	0.7026		1,918.615 4	1,918.615 4	0.0396		1,919.604 3
Total	0.6624	0.3689	4.8190	0.0192	2.6057	0.0126	2.6183	0.6910	0.0116	0.7026		1,918.615 4	1,918.615 4	0.0396		1,919.604 3

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Ocean Breeze Ranch 2030 Operations - 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	5.1033	20.5187	66.3105	0.2824	31.4203	0.1732	31.5935	8.3941	0.1609	8.5550		28,903.78 45	28,903.78 45	1.3159		28,936.68 17
Unmitigated	5.1033	20.5187	66.3105	0.2824	31.4203	0.1732	31.5935	8.3941	0.1609	8.5550		28,903.78 45	28,903.78 45	1.3159		28,936.68 17

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
City Park	0.00	0.00	0.00		
Other Asphalt Surfaces	0.00	0.00	0.00		
Single Family Housing	3,991.68	3,991.68	3,991.68	14,826,012	14,826,012
Total	3,991.68	3,991.68	3,991.68	14,826,012	14,826,012

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	14.70	6.60	6.60	33.00	48.00	19.00	66	28	6
Other Asphalt Surfaces	14.70	6.60	6.60	0.00	0.00	0.00	0	0	0
Single Family Housing	16.80	7.10	7.90	42.00	18.00	40.00	86	11	3

4.4 Fleet Mix

Ocean Breeze Ranch 2030 Operations - San Diego County, Summer

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
City Park	0.616428	0.037185	0.177402	0.097684	0.012090	0.005279	0.017663	0.025476	0.001931	0.001677	0.005617	0.000785	0.000782
Other Asphalt Surfaces	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
Single Family Housing	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

Install High Efficiency Lighting

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	lb/day										lb/day					
NaturalGas Mitigated	0.2736	2.3383	0.9950	0.0149		0.1891	0.1891		0.1891	0.1891		2,985.0831	2,985.0831	0.0572	0.0547	3,002.8220
NaturalGas Unmitigated	0.2736	2.3383	0.9950	0.0149		0.1891	0.1891		0.1891	0.1891		2,985.0831	2,985.0831	0.0572	0.0547	3,002.8220

Ocean Breeze Ranch 2030 Operations - San Diego County, Summer

5.2 Energy by Land Use - Natural Gas

Unmitigated

	Natural Gas 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	0.0000
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Single Family Housing	25373.2	0.2736	2.3383	0.9950	0.0149		0.1891	0.1891		0.1891	0.1891		2,985.0831	2,985.0831	0.0572	0.0547	3,002.8220	
Total		0.2736	2.3383	0.9950	0.0149		0.1891	0.1891		0.1891	0.1891		2,985.0831	2,985.0831	0.0572	0.0547	3,002.8220	

Mitigated

	Natural Gas 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	0.0000
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Single Family Housing	25.3732	0.2736	2.3383	0.9950	0.0149		0.1891	0.1891		0.1891	0.1891		2,985.0831	2,985.0831	0.0572	0.0547	3,002.8220	
Total		0.2736	2.3383	0.9950	0.0149		0.1891	0.1891		0.1891	0.1891		2,985.0831	2,985.0831	0.0572	0.0547	3,002.8220	

6.0 Area Detail

Ocean Breeze Ranch 2030 Operations - San Diego County, Summer

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	20.0775	6.9446	35.3843	0.0437		0.7123	0.7123		0.7123	0.7123	0.0000	8,444.7196	8,444.7196	0.2168	0.1537	8,495.9545
Unmitigated	20.0775	6.9446	35.3843	0.0437		0.7123	0.7123		0.7123	0.7123	0.0000	8,444.7196	8,444.7196	0.2168	0.1537	8,495.9545

Ocean Breeze Ranch 2030 Operations - San Diego County, Summer

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	2.5501					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	15.7836					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.7687	6.5689	2.7953	0.0419		0.5311	0.5311		0.5311	0.5311	0.0000	8,385.8824	8,385.8824	0.1607	0.1537	8,435.7155
Landscaping	0.9751	0.3757	32.5890	1.7300e-003		0.1812	0.1812		0.1812	0.1812		58.8372	58.8372	0.0561		60.2391
Total	20.0775	6.9446	35.3843	0.0437		0.7123	0.7123		0.7123	0.7123	0.0000	8,444.7196	8,444.7196	0.2168	0.1537	8,495.9545

Ocean Breeze Ranch 2030 Operations - 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	2.5501					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	15.7836					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.7687	6.5689	2.7953	0.0419		0.5311	0.5311		0.5311	0.5311	0.0000	8,385.8824	8,385.8824	0.1607	0.1537	8,435.7155
Landscaping	0.9751	0.3757	32.5890	1.7300e-003		0.1812	0.1812		0.1812	0.1812		58.8372	58.8372	0.0561		60.2391
Total	20.0775	6.9446	35.3843	0.0437		0.7123	0.7123		0.7123	0.7123	0.0000	8,444.7196	8,444.7196	0.2168	0.1537	8,495.9545

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

8.0 Waste Detail

8.1 Mitigation Measures Waste

Ocean Breeze Ranch 2030 Operations - San Diego County, Summer

Institute Recycling and Composting Services

9.0 Operational Offroad

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

Fire Pumps and Emergency Generators

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

Boilers

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

User Defined Equipment

Equipment Type	Number
----------------	--------

11.0 Vegetation

Ocean Breeze Ranch 2030 Operations - San Diego County, Winter

Ocean Breeze Ranch 2030 Operations
San Diego County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Other Asphalt Surfaces	32.00	Acre	32.00	1,393,920.00	0
City Park	16.00	Acre	16.00	696,960.00	0
Single Family Housing	396.00	Dwelling Unit	264.00	712,800.00	1133

1.2 Other Project Characteristics

Urbanization	Rural	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)	402.51	CH4 Intensity (lb/MWhr)	0.016	N2O Intensity (lb/MWhr)	0.003

1.3 User Entered Comments & Non-Default Data

Ocean Breeze Ranch 2030 Operations - San Diego County, Winter

Project Characteristics - rps for fully operational year 2030 50% RPS

Land Use - Proposed project... Project Engineer estimated 32 acres of paving

Construction Phase - Project Construction Durations

Off-road Equipment - construction equipment

Off-road Equipment - construction equipment

Off-road Equipment - construction equipment

Off-road Equipment - Construction Equipment

Off-road Equipment - Construction Equipment

Off-road Equipment - construction equipment

Off-road Equipment - construction equipment

Trips and VMT - Project soil export and import hauling length would be from moving material onsite.

Demolition -

Grading - 945000 cf onsite earthwork haulage... 1,500' only though 0.5 mile was assumed. 312 ac with multiple passes

Architectural Coating - rule 67 paint

Vehicle Trips - per TS 396 units to generate 3,990 trips 10.08 trips per average unit. Parks would be primarily for project usage and would not generate trips per TS

Woodstoves - PDF - All fireplaces are Natural Gas

Area Coating - rule 67 paint

Energy Use -

Water And Wastewater -

Solid Waste -

Construction Off-road Equipment Mitigation - Tier 3 with DPF

Area Mitigation -

Energy Mitigation -

Water Mitigation -

Waste Mitigation -

Fleet Mix -

Ocean Breeze Ranch 2030 Operations - San Diego County, Winter

Table Name	Column Name	Default Value	New Value
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_Parking	250	100
tblAreaCoating	Area_EF_Residential_Exterior	250	100
tblAreaCoating	Area_EF_Residential_Interior	250	100
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00

Ocean Breeze Ranch 2030 Operations - San Diego County, Winter

tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	6.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	10.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstructionPhase	NumDays	400.00	15.00
tblConstructionPhase	NumDays	240.00	90.00

Ocean Breeze Ranch 2030 Operations - San Diego County, Winter

tblConstructionPhase	NumDays	620.00	285.00
tblConstructionPhase	NumDays	440.00	40.00
tblConstructionPhase	NumDays	6,200.00	1,488.00
tblConstructionPhase	NumDays	440.00	1,339.00
tblFireplaces	NumberGas	217.80	396.00
tblFireplaces	NumberNoFireplace	39.60	0.00
tblFireplaces	NumberWood	138.60	0.00
tblGrading	AcresOfGrading	1,567.50	1,550.00
tblGrading	AcresOfGrading	0.00	1,550.00
tblGrading	MaterialExported	0.00	347,500.00
tblGrading	MaterialExported	0.00	125,000.00
tblGrading	MaterialImported	0.00	347,500.00
tblGrading	MaterialImported	0.00	125,000.00
tblLandUse	LotAcreage	128.57	264.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	3.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	3.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	3.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	3.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	PhaseName		Grading
tblOffRoadEquipment	PhaseName		Grading
tblOffRoadEquipment	UsageHours	6.00	3.00
tblOffRoadEquipment	UsageHours	7.00	3.00
tblOffRoadEquipment	UsageHours	8.00	5.00

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tblOffRoadEquipment	UsageHours	8.00	4.00
tblOffRoadEquipment	UsageHours	8.00	4.00
tblOffRoadEquipment	UsageHours	7.00	3.00
tblOffRoadEquipment	UsageHours	8.00	4.00
tblProjectCharacteristics	CH4IntensityFactor	0.029	0.016
tblProjectCharacteristics	CO2IntensityFactor	720.49	402.51
tblProjectCharacteristics	N2OIntensityFactor	0.006	0.003
tblProjectCharacteristics	UrbanizationLevel	Urban	Rural
tblTripsAndVMT	HaulingTripLength	20.00	0.50
tblTripsAndVMT	HaulingTripLength	20.00	0.50
tblVehicleTrips	HO_TTP	39.60	40.00
tblVehicleTrips	HS_TTP	18.80	18.00
tblVehicleTrips	HW_TTP	41.60	42.00
tblVehicleTrips	ST_TR	22.75	0.00
tblVehicleTrips	ST_TR	9.91	10.08
tblVehicleTrips	SU_TR	16.74	0.00
tblVehicleTrips	SU_TR	8.62	10.08
tblVehicleTrips	WD_TR	1.89	0.00
tblVehicleTrips	WD_TR	9.52	10.08
tblWoodstoves	NumberCatalytic	19.80	0.00
tblWoodstoves	NumberNoncatalytic	19.80	0.00

2.0 Emissions Summary

Ocean Breeze Ranch 2030 Operations - San Diego County, Winter

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2022	9.2971	119.0727	67.7348	0.1787	37.1095	3.8254	38.7475	12.0670	3.5256	14.3694	0.0000	17,719.2009	17,719.2009	5.0021	0.0000	17,844.2532
2023	8.3517	104.1249	64.4307	0.2143	24.9963	3.2927	28.2890	10.8232	3.0344	13.8576	0.0000	22,048.7935	22,048.7935	4.8924	0.0000	22,080.4122
2024	14.4275	38.0866	52.7393	0.2321	18.0043	0.4458	18.4501	4.8281	0.4201	5.2482	0.0000	23,826.3306	23,826.3306	1.2891	0.0000	23,858.5593
2025	14.1040	36.9428	50.1557	0.2262	18.0043	0.3985	18.4028	4.8281	0.3753	5.2034	0.0000	23,248.6549	23,248.6549	1.2543	0.0000	23,280.0123
2026	13.8700	36.3407	48.0337	0.2210	18.0043	0.3944	18.3987	4.8281	0.3715	5.1996	0.0000	22,742.4435	22,742.4435	1.2262	0.0000	22,773.0991
2027	13.6348	35.7803	46.1575	0.2165	18.0043	0.3885	18.3928	4.8281	0.3660	5.1941	0.0000	22,294.4839	22,294.4839	1.2019	0.0000	22,324.5300
2028	13.3838	35.3018	44.5632	0.2125	18.0043	0.3812	18.3855	4.8281	0.3593	5.1874	0.0000	21,903.5606	21,903.5606	1.1807	0.0000	21,933.0778
2029	13.1094	34.8284	43.0370	0.2089	18.0043	0.3745	18.3788	4.8281	0.3531	5.1812	0.0000	21,555.6849	21,555.6849	1.1623	0.0000	21,584.7420
Maximum	14.4275	119.0727	67.7348	0.2321	37.1095	3.8254	38.7475	12.0670	3.5256	14.3694	0.0000	23,826.3306	23,826.3306	5.0021	0.0000	23,858.5593

Ocean Breeze Ranch 2030 Operations - San Diego County, Winter

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	20.0775	6.9446	35.3843	0.0437		0.7123	0.7123		0.7123	0.7123	0.0000	8,444.7196	8,444.7196	0.2168	0.1537	8,495.9545
Energy	0.2736	2.3383	0.9950	0.0149		0.1891	0.1891		0.1891	0.1891		2,985.0831	2,985.0831	0.0572	0.0547	3,002.8220
Mobile	4.9410	21.0655	63.9601	0.2685	31.4203	0.1736	31.5939	8.3941	0.1613	8.5554		27,496.1489	27,496.1489	1.3146		27,529.0147
Total	25.2921	30.3484	100.3395	0.3270	31.4203	1.0750	32.4952	8.3941	1.0627	9.4568	0.0000	38,925.9515	38,925.9515	1.5886	0.2085	39,027.7912

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	20.0775	6.9446	35.3843	0.0437		0.7123	0.7123		0.7123	0.7123	0.0000	8,444.7196	8,444.7196	0.2168	0.1537	8,495.9545
Energy	0.2736	2.3383	0.9950	0.0149		0.1891	0.1891		0.1891	0.1891		2,985.0831	2,985.0831	0.0572	0.0547	3,002.8220
Mobile	4.9410	21.0655	63.9601	0.2685	31.4203	0.1736	31.5939	8.3941	0.1613	8.5554		27,496.1489	27,496.1489	1.3146		27,529.0147
Total	25.2921	30.3484	100.3395	0.3270	31.4203	1.0750	32.4952	8.3941	1.0627	9.4568	0.0000	38,925.9515	38,925.9515	1.5886	0.2085	39,027.7912

Ocean Breeze Ranch 2030 Operations - San Diego County, Winter

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

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	3/1/2022	3/21/2022	5	15	
2	Site Preparation	Site Preparation	3/22/2022	7/25/2022	5	90	
3	Grading	Grading	7/26/2022	8/28/2023	5	285	
4	Paving	Paving	8/29/2023	10/23/2023	5	40	
5	Building Construction	Building Construction	10/24/2023	7/5/2029	5	1488	
6	Architectural Coating	Architectural Coating	5/20/2024	7/5/2029	5	1339	

Acres of Grading (Site Preparation Phase): 1550

Acres of Grading (Grading Phase): 1550

Acres of Paving: 32

Residential Indoor: 1,443,420; Residential Outdoor: 481,140; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 83,635 (Architectural Coating – sqft)

OffRoad Equipment

Ocean Breeze Ranch 2030 Operations - San Diego County, Winter

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Excavators	1	5.00	158	0.38
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Bore/Drill Rigs	2	3.00	221	0.50
Grading	Crushing/Proc. Equipment	1	3.00	85	0.78
Grading	Excavators	3	8.00	158	0.38
Grading	Graders	3	8.00	187	0.41
Grading	Rubber Tired Dozers	3	8.00	247	0.40
Grading	Scrapers	4	8.00	367	0.48
Grading	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Building Construction	Cranes	1	3.00	231	0.29
Building Construction	Forklifts	3	4.00	89	0.20
Building Construction	Generator Sets	1	4.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	3.00	97	0.37
Building Construction	Welders	1	4.00	46	0.45
Architectural Coating	Air Compressors	1	3.00	78	0.48

Trips and VMT

Ocean Breeze Ranch 2030 Operations - San Diego County, Winter

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	1	3.00	0.00	68.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	31,250.00	16.80	6.60	0.50	LD_Mix	HDT_Mix	HHDT
Grading	19	48.00	0.00	86,875.00	16.80	6.60	0.50	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	1,021.00	385.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	204.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Use DPF for Construction Equipment

3.2 Demolition - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.9966	0.0000	0.9966	0.1509	0.0000	0.1509			0.0000			0.0000
Off-Road	0.1265	1.1106	2.0345	3.2300e-003		0.0537	0.0537		0.0494	0.0494		312.5096	312.5096	0.1011		315.0363
Total	0.1265	1.1106	2.0345	3.2300e-003	0.9966	0.0537	1.0503	0.1509	0.0494	0.2003		312.5096	312.5096	0.1011		315.0363

Ocean Breeze Ranch 2030 Operations - San Diego County, Winter

3.2 Demolition - 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	0.0325	1.0714	0.2995	3.3800e-003	0.0792	3.0700e-003	0.0823	0.0217	2.9400e-003	0.0247		371.7709	371.7709	0.0346		372.6355
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0159	0.0103	0.1003	3.4000e-004	0.0383	2.5000e-004	0.0386	0.0102	2.3000e-004	0.0104		34.0185	34.0185	9.0000e-004		34.0409
Total	0.0484	1.0816	0.3998	3.7200e-003	0.1175	3.3200e-003	0.1209	0.0319	3.1700e-003	0.0350		405.7893	405.7893	0.0355		406.6764

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.9966	0.0000	0.9966	0.1509	0.0000	0.1509			0.0000			0.0000
Off-Road	0.0794	1.5354	2.4488	3.2300e-003		0.0111	0.0111		0.0111	0.0111	0.0000	312.5096	312.5096	0.1011		315.0363
Total	0.0794	1.5354	2.4488	3.2300e-003	0.9966	0.0111	1.0078	0.1509	0.0111	0.1621	0.0000	312.5096	312.5096	0.1011		315.0363

Ocean Breeze Ranch 2030 Operations - San Diego County, Winter

3.2 Demolition - 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	0.0325	1.0714	0.2995	3.3800e-003	0.0792	3.0700e-003	0.0823	0.0217	2.9400e-003	0.0247		371.7709	371.7709	0.0346		372.6355
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0159	0.0103	0.1003	3.4000e-004	0.0383	2.5000e-004	0.0386	0.0102	2.3000e-004	0.0104		34.0185	34.0185	9.0000e-004		34.0409
Total	0.0484	1.0816	0.3998	3.7200e-003	0.1175	3.3200e-003	0.1209	0.0319	3.1700e-003	0.0350		405.7893	405.7893	0.0355		406.6764

3.3 Site Preparation - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					36.7208	0.0000	36.7208	11.9619	0.0000	11.9619			0.0000			0.0000
Off-Road	3.1701	33.0835	19.6978	0.0380		1.6126	1.6126		1.4836	1.4836		3,686.0619	3,686.0619	1.1922		3,715.8655
Total	3.1701	33.0835	19.6978	0.0380	36.7208	1.6126	38.3333	11.9619	1.4836	13.4455		3,686.0619	3,686.0619	1.1922		3,715.8655

Ocean Breeze Ranch 2030 Operations - San Diego County, Winter

3.3 Site Preparation - 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	0.6384	31.5684	5.7881	0.0370	0.1588	0.0239	0.1828	0.0442	0.0229	0.0671		4,044.5106	4,044.5106	0.7356		4,062.8993
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0953	0.0616	0.6018	2.0500e-003	0.2299	1.4900e-003	0.2314	0.0610	1.3800e-003	0.0624		204.1109	204.1109	5.3900e-003		204.2457
Total	0.7337	31.6300	6.3899	0.0390	0.3888	0.0254	0.4142	0.1051	0.0243	0.1294		4,248.6215	4,248.6215	0.7409		4,267.1449

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					36.7208	0.0000	36.7208	11.9619	0.0000	11.9619			0.0000			0.0000
Off-Road	0.9312	19.0656	22.9600	0.0380		0.1419	0.1419		0.1419	0.1419	0.0000	3,686.0619	3,686.0619	1.1922		3,715.8655
Total	0.9312	19.0656	22.9600	0.0380	36.7208	0.1419	36.8627	11.9619	0.1419	12.1038	0.0000	3,686.0619	3,686.0619	1.1922		3,715.8655

Ocean Breeze Ranch 2030 Operations - San Diego County, Winter

3.3 Site Preparation - 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	0.6384	31.5684	5.7881	0.0370	0.1588	0.0239	0.1828	0.0442	0.0229	0.0671		4,044.5106	4,044.5106	0.7356		4,062.8993
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0953	0.0616	0.6018	2.0500e-003	0.2299	1.4900e-003	0.2314	0.0610	1.3800e-003	0.0624		204.1109	204.1109	5.3900e-003		204.2457
Total	0.7337	31.6300	6.3899	0.0390	0.3888	0.0254	0.4142	0.1051	0.0243	0.1294		4,248.6215	4,248.6215	0.7409		4,267.1449

3.4 Grading - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					24.1766	0.0000	24.1766	10.6053	0.0000	10.6053			0.0000			0.0000
Off-Road	8.4825	91.1948	61.0488	0.1408		3.8004	3.8004		3.5018	3.5018		13,624.2506	13,624.2506	4.3420		13,732.8003
Total	8.4825	91.1948	61.0488	0.1408	24.1766	3.8004	27.9770	10.6053	3.5018	14.1071		13,624.2506	13,624.2506	4.3420		13,732.8003

Ocean Breeze Ranch 2030 Operations - San Diego County, Winter

3.4 Grading - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.5604	27.7137	5.0813	0.0325	0.2906	0.0210	0.3116	0.0759	0.0201	0.0960		3,550.6546	3,550.6546	0.6457		3,566.7979
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.2542	0.1642	1.6048	5.4600e-003	0.6131	3.9800e-003	0.6171	0.1626	3.6700e-003	0.1663		544.2958	544.2958	0.0144		544.6551
Total	0.8146	27.8780	6.6861	0.0379	0.9037	0.0250	0.9287	0.2385	0.0238	0.2622		4,094.9504	4,094.9504	0.6601		4,111.4530

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					24.1766	0.0000	24.1766	10.6053	0.0000	10.6053			0.0000			0.0000
Off-Road	3.4426	67.5377	80.6543	0.1408		0.4266	0.4266		0.4266	0.4266	0.0000	13,624.2506	13,624.2506	4.3420		13,732.8002
Total	3.4426	67.5377	80.6543	0.1408	24.1766	0.4266	24.6031	10.6053	0.4266	11.0319	0.0000	13,624.2506	13,624.2506	4.3420		13,732.8002

Ocean Breeze Ranch 2030 Operations - San Diego County, Winter

3.4 Grading - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.5604	27.7137	5.0813	0.0325	0.2906	0.0210	0.3116	0.0759	0.0201	0.0960		3,550.6546	3,550.6546	0.6457		3,566.7979
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.2542	0.1642	1.6048	5.4600e-003	0.6131	3.9800e-003	0.6171	0.1626	3.6700e-003	0.1663		544.2958	544.2958	0.0144		544.6551
Total	0.8146	27.8780	6.6861	0.0379	0.9037	0.0250	0.9287	0.2385	0.0238	0.2622		4,094.9504	4,094.9504	0.6601		4,111.4530

3.4 Grading - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					24.1766	0.0000	24.1766	10.6053	0.0000	10.6053			0.0000			0.0000
Off-Road	7.7017	80.3758	58.5593	0.1408		3.2765	3.2765		3.0190	3.0190		13,624.8804	13,624.8804	4.3409		13,733.4023
Total	7.7017	80.3758	58.5593	0.1408	24.1766	3.2765	27.4530	10.6053	3.0190	13.6243		13,624.8804	13,624.8804	4.3409		13,733.4023

Ocean Breeze Ranch 2030 Operations - San Diego County, Winter

3.4 Grading - 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	0.4081	23.5990	4.3827	0.0312	0.2066	0.0124	0.2190	0.0553	0.0118	0.0671		3,423.8068	3,423.8068	0.5384		3,437.2660
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.2419	0.1501	1.4887	5.2500e-003	0.6131	3.9000e-003	0.6170	0.1626	3.5900e-003	0.1662		523.4928	523.4928	0.0131		523.8214
Total	0.6499	23.7491	5.8714	0.0364	0.8197	0.0163	0.8360	0.2179	0.0154	0.2333		3,947.2996	3,947.2996	0.5515		3,961.0874

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					24.1766	0.0000	24.1766	10.6053	0.0000	10.6053			0.0000			0.0000
Off-Road	3.4426	67.5377	80.6543	0.1408		0.4266	0.4266		0.4266	0.4266	0.0000	13,624.8804	13,624.8804	4.3409		13,733.4023
Total	3.4426	67.5377	80.6543	0.1408	24.1766	0.4266	24.6031	10.6053	0.4266	11.0319	0.0000	13,624.8804	13,624.8804	4.3409		13,733.4023

Ocean Breeze Ranch 2030 Operations - San Diego County, Winter

3.4 Grading - 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	0.4081	23.5990	4.3827	0.0312	0.2066	0.0124	0.2190	0.0553	0.0118	0.0671		3,423.8068	3,423.8068	0.5384		3,437.2660
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.2419	0.1501	1.4887	5.2500e-003	0.6131	3.9000e-003	0.6170	0.1626	3.5900e-003	0.1662		523.4928	523.4928	0.0131		523.8214
Total	0.6499	23.7491	5.8714	0.0364	0.8197	0.0163	0.8360	0.2179	0.0154	0.2333		3,947.2996	3,947.2996	0.5515		3,961.0874

3.5 Paving - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.0327	10.1917	14.5842	0.0228		0.5102	0.5102		0.4694	0.4694		2,207.5841	2,207.5841	0.7140		2,225.4336
Paving	2.0960					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	3.1287	10.1917	14.5842	0.0228		0.5102	0.5102		0.4694	0.4694		2,207.5841	2,207.5841	0.7140		2,225.4336

Ocean Breeze Ranch 2030 Operations - San Diego County, Winter

3.5 Paving - 2023

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0756	0.0469	0.4652	1.6400e-003	0.1916	1.2200e-003	0.1928	0.0508	1.1200e-003	0.0519		163.5915	163.5915	4.1100e-003		163.6942
Total	0.0756	0.0469	0.4652	1.6400e-003	0.1916	1.2200e-003	0.1928	0.0508	1.1200e-003	0.0519		163.5915	163.5915	4.1100e-003		163.6942

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.5609	11.2952	17.2957	0.0228		0.0914	0.0914		0.0914	0.0914	0.0000	2,207.5841	2,207.5841	0.7140		2,225.4336
Paving	2.0960					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	2.6569	11.2952	17.2957	0.0228		0.0914	0.0914		0.0914	0.0914	0.0000	2,207.5841	2,207.5841	0.7140		2,225.4336

Ocean Breeze Ranch 2030 Operations - San Diego County, Winter

3.5 Paving - 2023

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0756	0.0469	0.4652	1.6400e-003	0.1916	1.2200e-003	0.1928	0.0508	1.1200e-003	0.0519		163.5915	163.5915	4.1100e-003		163.6942
Total	0.0756	0.0469	0.4652	1.6400e-003	0.1916	1.2200e-003	0.1928	0.0508	1.1200e-003	0.0519		163.5915	163.5915	4.1100e-003		163.6942

3.6 Building Construction - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.7360	6.6660	7.5890	0.0125		0.3257	0.3257		0.3070	0.3070		1,186.1332	1,186.1332	0.2743		1,192.9916
Total	0.7360	6.6660	7.5890	0.0125		0.3257	0.3257		0.3070	0.3070		1,186.1332	1,186.1332	0.2743		1,192.9916

Ocean Breeze Ranch 2030 Operations - San Diego County, Winter

3.6 Building Construction - 2023

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.8359	28.1131	9.0870	0.0901	2.3573	0.0335	2.3908	0.6787	0.0320	0.7107		9,727.5325	9,727.5325	0.7108		9,745.3031
Worker	5.1446	3.1916	31.6655	0.1117	13.0413	0.0830	13.1243	3.4584	0.0765	3.5349		11,135.1279	11,135.1279	0.2796		11,142.1174
Total	5.9805	31.3047	40.7525	0.2018	15.3986	0.1165	15.5151	4.1371	0.1085	4.2456		20,862.6604	20,862.6604	0.9904		20,887.4205

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	0.3139	6.6165	8.3058	0.0125		0.0634	0.0634		0.0634	0.0634	0.0000	1,186.1332	1,186.1332	0.2743		1,192.9916
Total	0.3139	6.6165	8.3058	0.0125		0.0634	0.0634		0.0634	0.0634	0.0000	1,186.1332	1,186.1332	0.2743		1,192.9916

Ocean Breeze Ranch 2030 Operations - San Diego County, Winter

3.6 Building Construction - 2023

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.8359	28.1131	9.0870	0.0901	2.3573	0.0335	2.3908	0.6787	0.0320	0.7107		9,727.5325	9,727.5325	0.7108		9,745.3031
Worker	5.1446	3.1916	31.6655	0.1117	13.0413	0.0830	13.1243	3.4584	0.0765	3.5349		11,135.1279	11,135.1279	0.2796		11,142.1174
Total	5.9805	31.3047	40.7525	0.2018	15.3986	0.1165	15.5151	4.1371	0.1085	4.2456		20,862.6604	20,862.6604	0.9904		20,887.4205

3.6 Building Construction - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.6881	6.2313	7.5533	0.0125		0.2851	0.2851		0.2686	0.2686		1,186.3427	1,186.3427	0.2726		1,193.1572
Total	0.6881	6.2313	7.5533	0.0125		0.2851	0.2851		0.2686	0.2686		1,186.3427	1,186.3427	0.2726		1,193.1572

Ocean Breeze Ranch 2030 Operations - San Diego County, Winter

3.6 Building Construction - 2024

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.8051	27.7315	8.7863	0.0894	2.3573	0.0325	2.3898	0.6787	0.0310	0.7097		9,665.511 2	9,665.511 2	0.7005		9,683.023 0
Worker	4.9112	2.9291	29.5836	0.1072	13.0413	0.0815	13.1228	3.4584	0.0750	3.5334		10,696.53 99	10,696.53 99	0.2569		10,702.96 12
Total	5.7163	30.6607	38.3700	0.1966	15.3986	0.1139	15.5125	4.1371	0.1060	4.2432		20,362.05 11	20,362.05 11	0.9573		20,385.98 43

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	0.3139	6.6165	8.3058	0.0125		0.0634	0.0634		0.0634	0.0634	0.0000	1,186.342 7	1,186.342 7	0.2726		1,193.157 2
Total	0.3139	6.6165	8.3058	0.0125		0.0634	0.0634		0.0634	0.0634	0.0000	1,186.342 7	1,186.342 7	0.2726		1,193.157 2

Ocean Breeze Ranch 2030 Operations - San Diego County, Winter

3.6 Building Construction - 2024

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.8051	27.7315	8.7863	0.0894	2.3573	0.0325	2.3898	0.6787	0.0310	0.7097		9,665.511 2	9,665.511 2	0.7005		9,683.023 0
Worker	4.9112	2.9291	29.5836	0.1072	13.0413	0.0815	13.1228	3.4584	0.0750	3.5334		10,696.53 99	10,696.53 99	0.2569		10,702.96 12
Total	5.7163	30.6607	38.3700	0.1966	15.3986	0.1139	15.5125	4.1371	0.1060	4.2432		20,362.05 11	20,362.05 11	0.9573		20,385.98 43

3.6 Building Construction - 2025

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.6394	5.7865	7.5157	0.0125		0.2452	0.2452		0.2311	0.2311		1,186.675 1	1,186.675 1	0.2709		1,193.446 6
Total	0.6394	5.7865	7.5157	0.0125		0.2452	0.2452		0.2311	0.2311		1,186.675 1	1,186.675 1	0.2709		1,193.446 6

Ocean Breeze Ranch 2030 Operations - San Diego County, Winter

3.6 Building Construction - 2025

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.7805	27.3414	8.5976	0.0887	2.3573	0.0313	2.3887	0.6787	0.0300	0.7087		9,606.5480	9,606.5480	0.6913		9,623.8303
Worker	4.7069	2.7022	27.6193	0.1029	13.0413	0.0802	13.1215	3.4584	0.0738	3.5322		10,263.9320	10,263.9320	0.2371		10,269.8594
Total	5.4873	30.0436	36.2169	0.1916	15.3986	0.1115	15.5101	4.1371	0.1038	4.2409		19,870.4800	19,870.4800	0.9284		19,893.6896

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	0.3139	6.6165	8.3058	0.0125		0.0634	0.0634		0.0634	0.0634	0.0000	1,186.6751	1,186.6751	0.2709		1,193.4466
Total	0.3139	6.6165	8.3058	0.0125		0.0634	0.0634		0.0634	0.0634	0.0000	1,186.6751	1,186.6751	0.2709		1,193.4466

Ocean Breeze Ranch 2030 Operations - San Diego County, Winter

3.6 Building Construction - 2025

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.7805	27.3414	8.5976	0.0887	2.3573	0.0313	2.3887	0.6787	0.0300	0.7087		9,606.5480	9,606.5480	0.6913		9,623.8303
Worker	4.7069	2.7022	27.6193	0.1029	13.0413	0.0802	13.1215	3.4584	0.0738	3.5322		10,263.9320	10,263.9320	0.2371		10,269.8594
Total	5.4873	30.0436	36.2169	0.1916	15.3986	0.1115	15.5101	4.1371	0.1038	4.2409		19,870.4800	19,870.4800	0.9284		19,893.6896

3.6 Building Construction - 2026

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.6394	5.7865	7.5157	0.0125		0.2452	0.2452		0.2311	0.2311		1,186.6751	1,186.6751	0.2709		1,193.4466
Total	0.6394	5.7865	7.5157	0.0125		0.2452	0.2452		0.2311	0.2311		1,186.6751	1,186.6751	0.2709		1,193.4466

Ocean Breeze Ranch 2030 Operations - San Diego County, Winter

3.6 Building Construction - 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
Vendor	0.7598	26.9638	8.4643	0.0881	2.3573	0.0303	2.3876	0.6787	0.0290	0.7077		9,551.3987	9,551.3987	0.6826		9,568.4637
Worker	4.5291	2.5151	25.9619	0.0991	13.0413	0.0776	13.1189	3.4584	0.0715	3.5299		9,887.9855	9,887.9855	0.2209		9,893.5091
Total	5.2889	29.4789	34.4261	0.1872	15.3986	0.1079	15.5065	4.1371	0.1004	4.2375		19,439.3842	19,439.3842	0.9035		19,461.9728

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	0.3139	6.6165	8.3058	0.0125		0.0634	0.0634		0.0634	0.0634	0.0000	1,186.6751	1,186.6751	0.2709		1,193.4466
Total	0.3139	6.6165	8.3058	0.0125		0.0634	0.0634		0.0634	0.0634	0.0000	1,186.6751	1,186.6751	0.2709		1,193.4466

Ocean Breeze Ranch 2030 Operations - San Diego County, Winter

3.6 Building Construction - 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
Vendor	0.7598	26.9638	8.4643	0.0881	2.3573	0.0303	2.3876	0.6787	0.0290	0.7077		9,551.3987	9,551.3987	0.6826		9,568.4637
Worker	4.5291	2.5151	25.9619	0.0991	13.0413	0.0776	13.1189	3.4584	0.0715	3.5299		9,887.9855	9,887.9855	0.2209		9,893.5091
Total	5.2889	29.4789	34.4261	0.1872	15.3986	0.1079	15.5065	4.1371	0.1004	4.2375		19,439.3842	19,439.3842	0.9035		19,461.9728

3.6 Building Construction - 2027

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.6394	5.7865	7.5157	0.0125		0.2452	0.2452		0.2311	0.2311		1,186.6751	1,186.6751	0.2709		1,193.4466
Total	0.6394	5.7865	7.5157	0.0125		0.2452	0.2452		0.2311	0.2311		1,186.6751	1,186.6751	0.2709		1,193.4466

Ocean Breeze Ranch 2030 Operations - San Diego County, Winter

3.6 Building Construction - 2027

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.7425	26.6023	8.3518	0.0875	2.3573	0.0295	2.3868	0.6787	0.0282	0.7069		9,500.8699	9,500.8699	0.6751		9,517.7472
Worker	4.3474	2.3493	24.4918	0.0958	13.0413	0.0734	13.1147	3.4584	0.0675	3.5260		9,556.7391	9,556.7391	0.2069		9,561.9111
Total	5.0899	28.9516	32.8436	0.1833	15.3986	0.1029	15.5015	4.1371	0.0957	4.2328		19,057.6090	19,057.6090	0.8820		19,079.6583

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	0.3139	6.6165	8.3058	0.0125		0.0634	0.0634		0.0634	0.0634	0.0000	1,186.6751	1,186.6751	0.2709		1,193.4466
Total	0.3139	6.6165	8.3058	0.0125		0.0634	0.0634		0.0634	0.0634	0.0000	1,186.6751	1,186.6751	0.2709		1,193.4466

Ocean Breeze Ranch 2030 Operations - San Diego County, Winter

3.6 Building Construction - 2027

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.7425	26.6023	8.3518	0.0875	2.3573	0.0295	2.3868	0.6787	0.0282	0.7069		9,500.8699	9,500.8699	0.6751		9,517.7472
Worker	4.3474	2.3493	24.4918	0.0958	13.0413	0.0734	13.1147	3.4584	0.0675	3.5260		9,556.7391	9,556.7391	0.2069		9,561.9111
Total	5.0899	28.9516	32.8436	0.1833	15.3986	0.1029	15.5015	4.1371	0.0957	4.2328		19,057.6090	19,057.6090	0.8820		19,079.6583

3.6 Building Construction - 2028

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.6394	5.7865	7.5157	0.0125		0.2452	0.2452		0.2311	0.2311		1,186.6751	1,186.6751	0.2709		1,193.4466
Total	0.6394	5.7865	7.5157	0.0125		0.2452	0.2452		0.2311	0.2311		1,186.6751	1,186.6751	0.2709		1,193.4466

Ocean Breeze Ranch 2030 Operations - San Diego County, Winter

3.6 Building Construction - 2028

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.7289	26.2999	8.2907	0.0871	2.3573	0.0288	2.3861	0.6787	0.0275	0.7062		9,458.6117	9,458.6117	0.6682		9,475.3163
Worker	4.1496	2.2026	23.2139	0.0929	13.0413	0.0679	13.1092	3.4584	0.0625	3.5209		9,266.1375	9,266.1375	0.1950		9,271.0126
Total	4.8785	28.5025	31.5046	0.1799	15.3986	0.0967	15.4953	4.1371	0.0900	4.2271		18,724.7492	18,724.7492	0.8632		18,746.3288

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	0.3139	6.6165	8.3058	0.0125		0.0634	0.0634		0.0634	0.0634	0.0000	1,186.6751	1,186.6751	0.2709		1,193.4466
Total	0.3139	6.6165	8.3058	0.0125		0.0634	0.0634		0.0634	0.0634	0.0000	1,186.6751	1,186.6751	0.2709		1,193.4466

Ocean Breeze Ranch 2030 Operations - San Diego County, Winter

3.6 Building Construction - 2028

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.7289	26.2999	8.2907	0.0871	2.3573	0.0288	2.3861	0.6787	0.0275	0.7062		9,458.6117	9,458.6117	0.6682		9,475.3163
Worker	4.1496	2.2026	23.2139	0.0929	13.0413	0.0679	13.1092	3.4584	0.0625	3.5209		9,266.1375	9,266.1375	0.1950		9,271.0126
Total	4.8785	28.5025	31.5046	0.1799	15.3986	0.0967	15.4953	4.1371	0.0900	4.2271		18,724.7492	18,724.7492	0.8632		18,746.3288

3.6 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	0.6394	5.7865	7.5157	0.0125		0.2452	0.2452		0.2311	0.2311		1,186.6751	1,186.6751	0.2709		1,193.4466
Total	0.6394	5.7865	7.5157	0.0125		0.2452	0.2452		0.2311	0.2311		1,186.6751	1,186.6751	0.2709		1,193.4466

Ocean Breeze Ranch 2030 Operations - San Diego County, Winter

3.6 Building Construction - 2029

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.7159	25.9887	8.2235	0.0866	2.3573	0.0280	2.3853	0.6787	0.0267	0.7054		9,417.2173	9,417.2173	0.6630		9,433.7921
Worker	3.9318	2.0674	21.9979	0.0903	13.0413	0.0630	13.1043	3.4584	0.0579	3.5164		9,010.6947	9,010.6947	0.1840		9,015.2945
Total	4.6476	28.0560	30.2214	0.1769	15.3986	0.0910	15.4895	4.1371	0.0847	4.2218		18,427.9120	18,427.9120	0.8470		18,449.0865

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	0.3139	6.6165	8.3058	0.0125		0.0634	0.0634		0.0634	0.0634	0.0000	1,186.6751	1,186.6751	0.2709		1,193.4466
Total	0.3139	6.6165	8.3058	0.0125		0.0634	0.0634		0.0634	0.0634	0.0000	1,186.6751	1,186.6751	0.2709		1,193.4466

Ocean Breeze Ranch 2030 Operations - San Diego County, Winter

3.6 Building Construction - 2029

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.7159	25.9887	8.2235	0.0866	2.3573	0.0280	2.3853	0.6787	0.0267	0.7054		9,417.2173	9,417.2173	0.6630		9,433.7921
Worker	3.9318	2.0674	21.9979	0.0903	13.0413	0.0630	13.1043	3.4584	0.0579	3.5164		9,010.6947	9,010.6947	0.1840		9,015.2945
Total	4.6476	28.0560	30.2214	0.1769	15.3986	0.0910	15.4895	4.1371	0.0847	4.2218		18,427.9120	18,427.9120	0.8470		18,449.0865

3.7 Architectural Coating - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	6.9514					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.0904	0.6094	0.9051	1.4900e-003		0.0305	0.0305		0.0305	0.0305		140.7240	140.7240	7.9200e-003		140.9221
Total	7.0418	0.6094	0.9051	1.4900e-003		0.0305	0.0305		0.0305	0.0305		140.7240	140.7240	7.9200e-003		140.9221

Ocean Breeze Ranch 2030 Operations - San Diego County, Winter

3.7 Architectural Coating - 2024

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.9813	0.5853	5.9109	0.0214	2.6057	0.0163	2.6220	0.6910	0.0150	0.7060		2,137.2127	2,137.2127	0.0513		2,138.4957
Total	0.9813	0.5853	5.9109	0.0214	2.6057	0.0163	2.6220	0.6910	0.0150	0.7060		2,137.2127	2,137.2127	0.0513		2,138.4957

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	6.9514					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.0297	0.6785	0.9162	1.4900e-003		7.1300e-003	7.1300e-003		7.1300e-003	7.1300e-003	0.0000	140.7240	140.7240	7.9200e-003		140.9221
Total	6.9812	0.6785	0.9162	1.4900e-003		7.1300e-003	7.1300e-003		7.1300e-003	7.1300e-003	0.0000	140.7240	140.7240	7.9200e-003		140.9221

Ocean Breeze Ranch 2030 Operations - San Diego County, Winter

3.7 Architectural Coating - 2024

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.9813	0.5853	5.9109	0.0214	2.6057	0.0163	2.6220	0.6910	0.0150	0.7060		2,137.2127	2,137.2127	0.0513		2,138.4957
Total	0.9813	0.5853	5.9109	0.0214	2.6057	0.0163	2.6220	0.6910	0.0150	0.7060		2,137.2127	2,137.2127	0.0513		2,138.4957

3.7 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	6.9514					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.0854	0.5728	0.9046	1.4900e-003		0.0258	0.0258		0.0258	0.0258		140.7240	140.7240	7.6800e-003		140.9159
Total	7.0369	0.5728	0.9046	1.4900e-003		0.0258	0.0258		0.0258	0.0258		140.7240	140.7240	7.6800e-003		140.9159

Ocean Breeze Ranch 2030 Operations - San Diego County, Winter

3.7 Architectural Coating - 2025

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.9405	0.5399	5.5185	0.0206	2.6057	0.0160	2.6217	0.6910	0.0148	0.7058		2,050.7758	2,050.7758	0.0474		2,051.9602
Total	0.9405	0.5399	5.5185	0.0206	2.6057	0.0160	2.6217	0.6910	0.0148	0.7058		2,050.7758	2,050.7758	0.0474		2,051.9602

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	6.9514					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.0297	0.6785	0.9162	1.4900e-003		7.1300e-003	7.1300e-003		7.1300e-003	7.1300e-003	0.0000	140.7240	140.7240	7.6800e-003		140.9159
Total	6.9812	0.6785	0.9162	1.4900e-003		7.1300e-003	7.1300e-003		7.1300e-003	7.1300e-003	0.0000	140.7240	140.7240	7.6800e-003		140.9159

Ocean Breeze Ranch 2030 Operations - San Diego County, Winter

3.7 Architectural Coating - 2025

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.9405	0.5399	5.5185	0.0206	2.6057	0.0160	2.6217	0.6910	0.0148	0.7058		2,050.7758	2,050.7758	0.0474		2,051.9602
Total	0.9405	0.5399	5.5185	0.0206	2.6057	0.0160	2.6217	0.6910	0.0148	0.7058		2,050.7758	2,050.7758	0.0474		2,051.9602

3.7 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	6.9514					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.0854	0.5728	0.9046	1.4900e-003		0.0258	0.0258		0.0258	0.0258		140.7240	140.7240	7.6800e-003		140.9159
Total	7.0369	0.5728	0.9046	1.4900e-003		0.0258	0.0258		0.0258	0.0258		140.7240	140.7240	7.6800e-003		140.9159

Ocean Breeze Ranch 2030 Operations - San Diego County, Winter

3.7 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
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.9049	0.5025	5.1873	0.0198	2.6057	0.0155	2.6212	0.6910	0.0143	0.7053		1,975.660 2	1,975.660 2	0.0442		1,976.763 8
Total	0.9049	0.5025	5.1873	0.0198	2.6057	0.0155	2.6212	0.6910	0.0143	0.7053		1,975.660 2	1,975.660 2	0.0442		1,976.763 8

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	6.9514					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.0297	0.6785	0.9162	1.4900e-003		7.1300e-003	7.1300e-003		7.1300e-003	7.1300e-003	0.0000	140.7240	140.7240	7.6800e-003		140.9159
Total	6.9812	0.6785	0.9162	1.4900e-003		7.1300e-003	7.1300e-003		7.1300e-003	7.1300e-003	0.0000	140.7240	140.7240	7.6800e-003		140.9159

Ocean Breeze Ranch 2030 Operations - San Diego County, Winter

3.7 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
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.9049	0.5025	5.1873	0.0198	2.6057	0.0155	2.6212	0.6910	0.0143	0.7053		1,975.660 2	1,975.660 2	0.0442		1,976.763 8
Total	0.9049	0.5025	5.1873	0.0198	2.6057	0.0155	2.6212	0.6910	0.0143	0.7053		1,975.660 2	1,975.660 2	0.0442		1,976.763 8

3.7 Architectural Coating - 2027

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	6.9514					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.0854	0.5728	0.9046	1.4900e-003		0.0258	0.0258		0.0258	0.0258		140.7240	140.7240	7.6800e-003		140.9159
Total	7.0369	0.5728	0.9046	1.4900e-003		0.0258	0.0258		0.0258	0.0258		140.7240	140.7240	7.6800e-003		140.9159

Ocean Breeze Ranch 2030 Operations - San Diego County, Winter

3.7 Architectural Coating - 2027

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.8686	0.4694	4.8936	0.0191	2.6057	0.0147	2.6204	0.6910	0.0135	0.7045		1,909.4758	1,909.4758	0.0413		1,910.5092
Total	0.8686	0.4694	4.8936	0.0191	2.6057	0.0147	2.6204	0.6910	0.0135	0.7045		1,909.4758	1,909.4758	0.0413		1,910.5092

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	6.9514					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.0297	0.6785	0.9162	1.4900e-003		7.1300e-003	7.1300e-003		7.1300e-003	7.1300e-003	0.0000	140.7240	140.7240	7.6800e-003		140.9159
Total	6.9812	0.6785	0.9162	1.4900e-003		7.1300e-003	7.1300e-003		7.1300e-003	7.1300e-003	0.0000	140.7240	140.7240	7.6800e-003		140.9159

Ocean Breeze Ranch 2030 Operations - San Diego County, Winter

3.7 Architectural Coating - 2027

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.8686	0.4694	4.8936	0.0191	2.6057	0.0147	2.6204	0.6910	0.0135	0.7045		1,909.4758	1,909.4758	0.0413		1,910.5092
Total	0.8686	0.4694	4.8936	0.0191	2.6057	0.0147	2.6204	0.6910	0.0135	0.7045		1,909.4758	1,909.4758	0.0413		1,910.5092

3.7 Architectural Coating - 2028

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	6.9514					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.0854	0.5728	0.9046	1.4900e-003		0.0258	0.0258		0.0258	0.0258		140.7240	140.7240	7.6800e-003		140.9159
Total	7.0369	0.5728	0.9046	1.4900e-003		0.0258	0.0258		0.0258	0.0258		140.7240	140.7240	7.6800e-003		140.9159

Ocean Breeze Ranch 2030 Operations - San Diego County, Winter

3.7 Architectural Coating - 2028

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.8291	0.4401	4.6382	0.0186	2.6057	0.0136	2.6193	0.6910	0.0125	0.7035		1,851.412 4	1,851.412 4	0.0390		1,852.386 5
Total	0.8291	0.4401	4.6382	0.0186	2.6057	0.0136	2.6193	0.6910	0.0125	0.7035		1,851.412 4	1,851.412 4	0.0390		1,852.386 5

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	6.9514					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.0297	0.6785	0.9162	1.4900e-003		7.1300e-003	7.1300e-003		7.1300e-003	7.1300e-003	0.0000	140.7240	140.7240	7.6800e-003		140.9159
Total	6.9812	0.6785	0.9162	1.4900e-003		7.1300e-003	7.1300e-003		7.1300e-003	7.1300e-003	0.0000	140.7240	140.7240	7.6800e-003		140.9159

Ocean Breeze Ranch 2030 Operations - San Diego County, Winter

3.7 Architectural Coating - 2028

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.8291	0.4401	4.6382	0.0186	2.6057	0.0136	2.6193	0.6910	0.0125	0.7035		1,851.4124	1,851.4124	0.0390		1,852.3865
Total	0.8291	0.4401	4.6382	0.0186	2.6057	0.0136	2.6193	0.6910	0.0125	0.7035		1,851.4124	1,851.4124	0.0390		1,852.3865

3.7 Architectural Coating - 2029

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	6.9514					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.0854	0.5728	0.9046	1.4900e-003		0.0258	0.0258		0.0258	0.0258		140.7240	140.7240	7.6800e-003		140.9159
Total	7.0369	0.5728	0.9046	1.4900e-003		0.0258	0.0258		0.0258	0.0258		140.7240	140.7240	7.6800e-003		140.9159

Ocean Breeze Ranch 2030 Operations - San Diego County, Winter

3.7 Architectural Coating - 2029

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.7856	0.4131	4.3953	0.0180	2.6057	0.0126	2.6183	0.6910	0.0116	0.7026		1,800.373 9	1,800.373 9	0.0368		1,801.292 9
Total	0.7856	0.4131	4.3953	0.0180	2.6057	0.0126	2.6183	0.6910	0.0116	0.7026		1,800.373 9	1,800.373 9	0.0368		1,801.292 9

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	6.9514					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.0297	0.6785	0.9162	1.4900e-003		7.1300e-003	7.1300e-003		7.1300e-003	7.1300e-003	0.0000	140.7240	140.7240	7.6800e-003		140.9159
Total	6.9812	0.6785	0.9162	1.4900e-003		7.1300e-003	7.1300e-003		7.1300e-003	7.1300e-003	0.0000	140.7240	140.7240	7.6800e-003		140.9159

Ocean Breeze Ranch 2030 Operations - San Diego County, Winter

3.7 Architectural Coating - 2029

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.7856	0.4131	4.3953	0.0180	2.6057	0.0126	2.6183	0.6910	0.0116	0.7026		1,800.373 9	1,800.373 9	0.0368		1,801.292 9
Total	0.7856	0.4131	4.3953	0.0180	2.6057	0.0126	2.6183	0.6910	0.0116	0.7026		1,800.373 9	1,800.373 9	0.0368		1,801.292 9

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Ocean Breeze Ranch 2030 Operations - San Diego County, Winter

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	4.9410	21.0655	63.9601	0.2685	31.4203	0.1736	31.5939	8.3941	0.1613	8.5554		27,496.14 89	27,496.14 89	1.3146		27,529.01 47
Unmitigated	4.9410	21.0655	63.9601	0.2685	31.4203	0.1736	31.5939	8.3941	0.1613	8.5554		27,496.14 89	27,496.14 89	1.3146		27,529.01 47

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
City Park	0.00	0.00	0.00		
Other Asphalt Surfaces	0.00	0.00	0.00		
Single Family Housing	3,991.68	3,991.68	3,991.68	14,826,012	14,826,012
Total	3,991.68	3,991.68	3,991.68	14,826,012	14,826,012

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	14.70	6.60	6.60	33.00	48.00	19.00	66	28	6
Other Asphalt Surfaces	14.70	6.60	6.60	0.00	0.00	0.00	0	0	0
Single Family Housing	16.80	7.10	7.90	42.00	18.00	40.00	86	11	3

4.4 Fleet Mix

Ocean Breeze Ranch 2030 Operations - San Diego County, Winter

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
City Park	0.616428	0.037185	0.177402	0.097684	0.012090	0.005279	0.017663	0.025476	0.001931	0.001677	0.005617	0.000785	0.000782
Other Asphalt Surfaces	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
Single Family Housing	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

Install High Efficiency Lighting

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	lb/day										lb/day					
NaturalGas Mitigated	0.2736	2.3383	0.9950	0.0149		0.1891	0.1891		0.1891	0.1891		2,985.083 1	2,985.083 1	0.0572	0.0547	3,002.822 0
NaturalGas Unmitigated	0.2736	2.3383	0.9950	0.0149		0.1891	0.1891		0.1891	0.1891		2,985.083 1	2,985.083 1	0.0572	0.0547	3,002.822 0

Ocean Breeze Ranch 2030 Operations - San Diego County, Winter

5.2 Energy by Land Use - Natural Gas

Unmitigated

	Natural Gas 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
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Single Family Housing	25373.2	0.2736	2.3383	0.9950	0.0149		0.1891	0.1891		0.1891	0.1891		2,985.0831	2,985.0831	0.0572	0.0547	3,002.8220
Total		0.2736	2.3383	0.9950	0.0149		0.1891	0.1891		0.1891	0.1891		2,985.0831	2,985.0831	0.0572	0.0547	3,002.8220

Mitigated

	Natural Gas 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
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Single Family Housing	25.3732	0.2736	2.3383	0.9950	0.0149		0.1891	0.1891		0.1891	0.1891		2,985.0831	2,985.0831	0.0572	0.0547	3,002.8220
Total		0.2736	2.3383	0.9950	0.0149		0.1891	0.1891		0.1891	0.1891		2,985.0831	2,985.0831	0.0572	0.0547	3,002.8220

6.0 Area Detail

Ocean Breeze Ranch 2030 Operations - San Diego County, Winter

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	20.0775	6.9446	35.3843	0.0437		0.7123	0.7123		0.7123	0.7123	0.0000	8,444.7196	8,444.7196	0.2168	0.1537	8,495.9545
Unmitigated	20.0775	6.9446	35.3843	0.0437		0.7123	0.7123		0.7123	0.7123	0.0000	8,444.7196	8,444.7196	0.2168	0.1537	8,495.9545

Ocean Breeze Ranch 2030 Operations - San Diego County, Winter

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	2.5501					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	15.7836					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.7687	6.5689	2.7953	0.0419		0.5311	0.5311		0.5311	0.5311	0.0000	8,385.8824	8,385.8824	0.1607	0.1537	8,435.7155
Landscaping	0.9751	0.3757	32.5890	1.7300e-003		0.1812	0.1812		0.1812	0.1812		58.8372	58.8372	0.0561		60.2391
Total	20.0775	6.9446	35.3843	0.0437		0.7123	0.7123		0.7123	0.7123	0.0000	8,444.7196	8,444.7196	0.2168	0.1537	8,495.9545

Ocean Breeze Ranch 2030 Operations - San Diego County, Winter

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	2.5501					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	15.7836					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.7687	6.5689	2.7953	0.0419		0.5311	0.5311		0.5311	0.5311	0.0000	8,385.8824	8,385.8824	0.1607	0.1537	8,435.7155
Landscaping	0.9751	0.3757	32.5890	1.7300e-003		0.1812	0.1812		0.1812	0.1812		58.8372	58.8372	0.0561		60.2391
Total	20.0775	6.9446	35.3843	0.0437		0.7123	0.7123		0.7123	0.7123	0.0000	8,444.7196	8,444.7196	0.2168	0.1537	8,495.9545

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

8.0 Waste Detail

8.1 Mitigation Measures Waste

Ocean Breeze Ranch 2030 Operations - San Diego County, Winter

Institute Recycling and Composting Services

9.0 Operational Offroad

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

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

Ocean Breeze Ranch 2030 Operations - San Diego County, Annual

Ocean Breeze Ranch 2030 Operations
San Diego County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Other Asphalt Surfaces	32.00	Acre	32.00	1,393,920.00	0
City Park	16.00	Acre	16.00	696,960.00	0
Single Family Housing	396.00	Dwelling Unit	264.00	712,800.00	1133

1.2 Other Project Characteristics

Urbanization	Rural	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/MW hr)	402.51	CH4 Intensity (lb/MW hr)	0.016	N2O Intensity (lb/MW hr)	0.003

1.3 User Entered Comments & Non-Default Data

Ocean Breeze Ranch 2030 Operations - San Diego County, Annual

Project Characteristics - rps for fully operational year 2030 50% RPS

Land Use - Proposed project... Project Engineer estimated 32 acres of paving

Construction Phase - Project Construction Durations

Off-road Equipment - construction equipment

Off-road Equipment - construction equipment

Off-road Equipment - construction equipment

Off-road Equipment - Construction Equipment

Off-road Equipment - Construction Equipment

Off-road Equipment - construction equipment

Off-road Equipment - construction equipment

Trips and VMT - Project soil export and import hauling length would be from moving material onsite.

Demolition -

Grading - 945000 cf onsite earthwork haulage... 1,500' only though 0.5 mile was assumed. 312 ac with multiple passes

Architectural Coating - rule 67 paint

Vehicle Trips - per TS 396 units to generate 3,990 trips 10.08 trips per average unit. Parks would be primarily for project usage and would not generate trips per TS

Woodstoves - PDF - All fireplaces are Natural Gas

Area Coating - rule 67 paint

Energy Use -

Water And Wastewater -

Solid Waste -

Construction Off-road Equipment Mitigation - Tier 3 with DPF

Area Mitigation -

Energy Mitigation -

Water Mitigation -

Waste Mitigation -

Fleet Mix -

Ocean Breeze Ranch 2030 Operations - San Diego County, Annual

Table Name	Column Name	Default Value	New Value
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_Parking	250	100
tblAreaCoating	Area_EF_Residential_Exterior	250	100
tblAreaCoating	Area_EF_Residential_Interior	250	100
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
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tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
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tblConstEquipMitigation	DPF	No Change	Level 3
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tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00

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tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	6.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	10.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
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tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstructionPhase	NumDays	400.00	15.00
tblConstructionPhase	NumDays	240.00	90.00

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tblConstructionPhase	NumDays	620.00	285.00
tblConstructionPhase	NumDays	440.00	40.00
tblConstructionPhase	NumDays	6,200.00	1,488.00
tblConstructionPhase	NumDays	440.00	1,339.00
tblFireplaces	NumberGas	217.80	396.00
tblFireplaces	NumberNoFireplace	39.60	0.00
tblFireplaces	NumberWood	138.60	0.00
tblGrading	AcresOfGrading	1,567.50	1,550.00
tblGrading	AcresOfGrading	0.00	1,550.00
tblGrading	MaterialExported	0.00	347,500.00
tblGrading	MaterialExported	0.00	125,000.00
tblGrading	MaterialImported	0.00	347,500.00
tblGrading	MaterialImported	0.00	125,000.00
tblLandUse	LotAcreage	128.57	264.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	3.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	3.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	3.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	3.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	PhaseName		Grading
tblOffRoadEquipment	PhaseName		Grading
tblOffRoadEquipment	UsageHours	6.00	3.00
tblOffRoadEquipment	UsageHours	7.00	3.00
tblOffRoadEquipment	UsageHours	8.00	5.00

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tblOffRoadEquipment	UsageHours	8.00	4.00
tblOffRoadEquipment	UsageHours	8.00	4.00
tblOffRoadEquipment	UsageHours	7.00	3.00
tblOffRoadEquipment	UsageHours	8.00	4.00
tblProjectCharacteristics	CH4IntensityFactor	0.029	0.016
tblProjectCharacteristics	CO2IntensityFactor	720.49	402.51
tblProjectCharacteristics	N2OIntensityFactor	0.006	0.003
tblProjectCharacteristics	UrbanizationLevel	Urban	Rural
tblTripsAndVMT	HaulingTripLength	20.00	0.50
tblTripsAndVMT	HaulingTripLength	20.00	0.50
tblVehicleTrips	HO_TTP	39.60	40.00
tblVehicleTrips	HS_TTP	18.80	18.00
tblVehicleTrips	HW_TTP	41.60	42.00
tblVehicleTrips	ST_TR	22.75	0.00
tblVehicleTrips	ST_TR	9.91	10.08
tblVehicleTrips	SU_TR	16.74	0.00
tblVehicleTrips	SU_TR	8.62	10.08
tblVehicleTrips	WD_TR	1.89	0.00
tblVehicleTrips	WD_TR	9.52	10.08
tblWoodstoves	NumberCatalytic	19.80	0.00
tblWoodstoves	NumberNoncatalytic	19.80	0.00

2.0 Emissions Summary

Ocean Breeze Ranch 2030 Operations - San Diego County, Annual

2.1 Overall Construction

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	tons/yr										MT/yr					
2022	0.7009	9.7818	4.9794	0.0140	3.6287	0.2919	3.9206	1.2198	0.2689	1.4887	0.0000	1,270.745 0	1,270.745 0	0.3345	0.0000	1,279.108 5
2023	0.9214	10.0822	6.9486	0.0212	2.8561	0.3024	3.1585	1.0636	0.2789	1.3425	0.0000	1,921.842 6	1,921.842 6	0.4177	0.0000	1,932.284 1
2024	1.3939	4.9626	6.5526	0.0296	2.1765	0.0559	2.2325	0.5852	0.0526	0.6379	0.0000	2,761.559 3	2,761.559 3	0.1484	0.0000	2,765.270 2
2025	1.7428	4.8530	6.5323	0.0299	2.2949	0.0519	2.3468	0.6167	0.0489	0.6655	0.0000	2,785.667 9	2,785.667 9	0.1465	0.0000	2,789.331 1
2026	1.7149	4.7740	6.2552	0.0292	2.2949	0.0514	2.3463	0.6167	0.0484	0.6650	0.0000	2,724.972 3	2,724.972 3	0.1433	0.0000	2,728.554 4
2027	1.6871	4.7006	6.0100	0.0286	2.2949	0.0506	2.3455	0.6167	0.0477	0.6643	0.0000	2,671.283 2	2,671.283 2	0.1405	0.0000	2,674.794 9
2028	1.6516	4.6200	5.7793	0.0280	2.2861	0.0495	2.3356	0.6143	0.0466	0.6609	0.0000	2,614.362 5	2,614.362 5	0.1375	0.0000	2,617.800 0
2029	0.8349	2.3492	2.8762	0.0142	1.1782	0.0251	1.2033	0.3166	0.0236	0.3402	0.0000	1,325.984 6	1,325.984 6	0.0698	0.0000	1,327.729 1
Maximum	1.7428	10.0822	6.9486	0.0299	3.6287	0.3024	3.9206	1.2198	0.2789	1.4887	0.0000	2,785.667 9	2,785.667 9	0.4177	0.0000	2,789.331 1

Ocean Breeze Ranch 2030 Operations - San Diego County, Annual

2.1 Overall Construction

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	tons/yr										MT/yr					
2022	0.3125	7.8058	6.2468	0.0140	3.6287	0.0331	3.6618	1.2198	0.0330	1.2528	0.0000	1,270.743 9	1,270.743 9	0.3345	0.0000	1,279.107 4
2023	0.5375	9.0054	8.9095	0.0212	2.8561	0.0440	2.9000	1.0636	0.0437	1.1073	0.0000	1,921.841 2	1,921.841 2	0.4177	0.0000	1,932.282 7
2024	1.3399	5.0186	6.6521	0.0296	2.1765	0.0250	2.2015	0.5852	0.0239	0.6091	0.0000	2,761.559 1	2,761.559 1	0.1484	0.0000	2,765.270 0
2025	1.6930	4.9751	6.6369	0.0299	2.2949	0.0257	2.3207	0.6167	0.0246	0.6412	0.0000	2,785.667 7	2,785.667 7	0.1465	0.0000	2,789.331 0
2026	1.6651	4.8961	6.3598	0.0292	2.2949	0.0252	2.3201	0.6167	0.0241	0.6407	0.0000	2,724.972 1	2,724.972 1	0.1433	0.0000	2,728.554 2
2027	1.6374	4.8227	6.1147	0.0286	2.2949	0.0245	2.3194	0.6167	0.0234	0.6400	0.0000	2,671.283 0	2,671.283 0	0.1405	0.0000	2,674.794 7
2028	1.6020	4.7417	5.8836	0.0280	2.2861	0.0234	2.3095	0.6143	0.0224	0.6367	0.0000	2,614.362 3	2,614.362 3	0.1375	0.0000	2,617.799 8
2029	0.8094	2.4119	2.9299	0.0142	1.1782	0.0116	1.1899	0.3166	0.0111	0.3277	0.0000	1,325.984 5	1,325.984 5	0.0698	0.0000	1,327.729 0
Maximum	1.6930	9.0054	8.9095	0.0299	3.6287	0.0440	3.6618	1.2198	0.0437	1.2528	0.0000	2,785.667 7	2,785.667 7	0.4177	0.0000	2,789.331 0

	ROG	NOx	CO	SO2	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	9.87	5.30	-8.27	0.00	0.00	75.82	3.35	0.00	74.73	9.43	0.00	0.00	0.00	0.00	0.00	0.00

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
4	1-1-2022	3-31-2022	0.2628	0.2076
5	4-1-2022	6-30-2022	2.2640	1.7356

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6	7-1-2022	9-30-2022	3.7147	2.8829
7	10-1-2022	12-31-2022	4.2179	3.2750
8	1-1-2023	3-31-2023	3.6153	3.0658
9	4-1-2023	6-30-2023	3.6763	3.1206
10	7-1-2023	9-30-2023	2.5418	2.1889
11	10-1-2023	12-31-2023	1.2116	1.2052
12	1-1-2024	3-31-2024	1.4071	1.4075
13	4-1-2024	6-30-2024	1.5124	1.5128
14	7-1-2024	9-30-2024	1.6884	1.6890
15	10-1-2024	12-31-2024	1.7255	1.7261
16	1-1-2025	3-31-2025	1.6408	1.6586
17	4-1-2025	6-30-2025	1.6240	1.6420
18	7-1-2025	9-30-2025	1.6419	1.6601
19	10-1-2025	12-31-2025	1.6773	1.6955
20	1-1-2026	3-31-2026	1.6139	1.6317
21	4-1-2026	6-30-2026	1.5982	1.6163
22	7-1-2026	9-30-2026	1.6158	1.6340
23	10-1-2026	12-31-2026	1.6498	1.6680
24	1-1-2027	3-31-2027	1.5883	1.6062
25	4-1-2027	6-30-2027	1.5738	1.5919
26	7-1-2027	9-30-2027	1.5911	1.6093
27	10-1-2027	12-31-2027	1.6236	1.6419
28	1-1-2028	3-31-2028	1.5823	1.6003
29	4-1-2028	6-30-2028	1.5517	1.5697
30	7-1-2028	9-30-2028	1.5687	1.5869
31	10-1-2028	12-31-2028	1.5997	1.6179
32	1-1-2029	3-31-2029	1.5409	1.5587

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33	4-1-2029	6-30-2029	1.5290	1.5470
34	7-1-2029	9-30-2029	0.0840	0.0850
		Highest	4.2179	3.2750

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	tons/yr										MT/yr					
Area	3.4652	0.3031	3.0476	1.8700e-003		0.0381	0.0381		0.0381	0.0381	0.0000	316.7132	316.7132	0.0106	5.7200e-003	318.6812
Energy	0.0499	0.4267	0.1816	2.7200e-003		0.0345	0.0345		0.0345	0.0345	0.0000	1,079.5452	1,079.5452	0.0327	0.0134	1,084.3638
Mobile	0.8817	3.8432	11.5741	0.0493	5.5842	0.0315	5.6158	1.4948	0.0293	1.5241	0.0000	4,579.5905	4,579.5905	0.2155	0.0000	4,584.9771
Waste						0.0000	0.0000		0.0000	0.0000	94.5755	0.0000	94.5755	5.5893	0.0000	234.3069
Water						0.0000	0.0000		0.0000	0.0000	8.1855	133.0000	141.1855	0.8460	0.0208	168.5469
Total	4.3968	4.5730	14.8033	0.0539	5.5842	0.1041	5.6883	1.4948	0.1019	1.5966	102.7610	6,108.8489	6,211.6099	6.6940	0.0400	6,390.8757

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2.2 Overall Operational

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	tons/yr										MT/yr					
Area	3.4652	0.3031	3.0476	1.8700e-003		0.0381	0.0381		0.0381	0.0381	0.0000	316.7132	316.7132	0.0106	5.7200e-003	318.6812
Energy	0.0499	0.4267	0.1816	2.7200e-003		0.0345	0.0345		0.0345	0.0345	0.0000	1,003.9379	1,003.9379	0.0297	0.0129	1,008.5134
Mobile	0.8817	3.8432	11.5741	0.0493	5.5842	0.0315	5.6158	1.4948	0.0293	1.5241	0.0000	4,579.5905	4,579.5905	0.2155	0.0000	4,584.9771
Waste						0.0000	0.0000		0.0000	0.0000	70.9316	0.0000	70.9316	4.1919	0.0000	175.7301
Water						0.0000	0.0000		0.0000	0.0000	8.1855	118.6674	126.8529	0.8454	0.0207	154.1682
Total	4.3968	4.5730	14.8033	0.0539	5.5842	0.1041	5.6883	1.4948	0.1019	1.5966	79.1171	6,018.9090	6,098.0261	5.2931	0.0393	6,242.0700

	ROG	NOx	CO	SO2	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	0.00	0.00	0.00	0.00	0.00	0.00	23.01	1.47	1.83	20.93	1.65	2.33

3.0 Construction Detail

Construction Phase

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Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	3/1/2022	3/21/2022	5	15	
2	Site Preparation	Site Preparation	3/22/2022	7/25/2022	5	90	
3	Grading	Grading	7/26/2022	8/28/2023	5	285	
4	Paving	Paving	8/29/2023	10/23/2023	5	40	
5	Building Construction	Building Construction	10/24/2023	7/5/2029	5	1488	
6	Architectural Coating	Architectural Coating	5/20/2024	7/5/2029	5	1339	

Acres of Grading (Site Preparation Phase): 1550

Acres of Grading (Grading Phase): 1550

Acres of Paving: 32

Residential Indoor: 1,443,420; Residential Outdoor: 481,140; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 83,635 (Architectural Coating – sqft)

OffRoad Equipment

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Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Excavators	1	5.00	158	0.38
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Bore/Drill Rigs	2	3.00	221	0.50
Grading	Crushing/Proc. Equipment	1	3.00	85	0.78
Grading	Excavators	3	8.00	158	0.38
Grading	Graders	3	8.00	187	0.41
Grading	Rubber Tired Dozers	3	8.00	247	0.40
Grading	Scrapers	4	8.00	367	0.48
Grading	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Building Construction	Cranes	1	3.00	231	0.29
Building Construction	Forklifts	3	4.00	89	0.20
Building Construction	Generator Sets	1	4.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	3.00	97	0.37
Building Construction	Welders	1	4.00	46	0.45
Architectural Coating	Air Compressors	1	3.00	78	0.48

Trips and VMT

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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	1	3.00	0.00	68.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	31,250.00	16.80	6.60	0.50	LD_Mix	HDT_Mix	HHDT
Grading	19	48.00	0.00	86,875.00	16.80	6.60	0.50	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	1,021.00	385.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	204.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Use DPF for Construction Equipment

3.2 Demolition - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					7.4700e-003	0.0000	7.4700e-003	1.1300e-003	0.0000	1.1300e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	9.5000e-004	8.3300e-003	0.0153	2.0000e-005		4.0000e-004	4.0000e-004		3.7000e-004	3.7000e-004	0.0000	2.1263	2.1263	6.9000e-004	0.0000	2.1435
Total	9.5000e-004	8.3300e-003	0.0153	2.0000e-005	7.4700e-003	4.0000e-004	7.8700e-003	1.1300e-003	3.7000e-004	1.5000e-003	0.0000	2.1263	2.1263	6.9000e-004	0.0000	2.1435

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3.2 Demolition - 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	tons/yr										MT/yr					
Hauling	2.4000e-004	8.1200e-003	2.1700e-003	3.0000e-005	5.8000e-004	2.0000e-005	6.0000e-004	1.6000e-004	2.0000e-005	1.8000e-004	0.0000	2.5555	2.5555	2.3000e-004	0.0000	2.5613
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.0000e-004	8.0000e-005	7.6000e-004	0.0000	2.8000e-004	0.0000	2.8000e-004	7.0000e-005	0.0000	8.0000e-005	0.0000	0.2338	0.2338	1.0000e-005	0.0000	0.2339
Total	3.4000e-004	8.2000e-003	2.9300e-003	3.0000e-005	8.6000e-004	2.0000e-005	8.8000e-004	2.3000e-004	2.0000e-005	2.6000e-004	0.0000	2.7893	2.7893	2.4000e-004	0.0000	2.7953

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	tons/yr										MT/yr					
Fugitive Dust					7.4700e-003	0.0000	7.4700e-003	1.1300e-003	0.0000	1.1300e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	6.0000e-004	0.0115	0.0184	2.0000e-005		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005	0.0000	2.1263	2.1263	6.9000e-004	0.0000	2.1435
Total	6.0000e-004	0.0115	0.0184	2.0000e-005	7.4700e-003	8.0000e-005	7.5500e-003	1.1300e-003	8.0000e-005	1.2100e-003	0.0000	2.1263	2.1263	6.9000e-004	0.0000	2.1435

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3.2 Demolition - 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	tons/yr										MT/yr					
Hauling	2.4000e-004	8.1200e-003	2.1700e-003	3.0000e-005	5.8000e-004	2.0000e-005	6.0000e-004	1.6000e-004	2.0000e-005	1.8000e-004	0.0000	2.5555	2.5555	2.3000e-004	0.0000	2.5613
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.0000e-004	8.0000e-005	7.6000e-004	0.0000	2.8000e-004	0.0000	2.8000e-004	7.0000e-005	0.0000	8.0000e-005	0.0000	0.2338	0.2338	1.0000e-005	0.0000	0.2339
Total	3.4000e-004	8.2000e-003	2.9300e-003	3.0000e-005	8.6000e-004	2.0000e-005	8.8000e-004	2.3000e-004	2.0000e-005	2.6000e-004	0.0000	2.7893	2.7893	2.4000e-004	0.0000	2.7953

3.3 Site Preparation - 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	tons/yr										MT/yr					
Fugitive Dust					1.6524	0.0000	1.6524	0.5383	0.0000	0.5383	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1427	1.4888	0.8864	1.7100e-003		0.0726	0.0726		0.0668	0.0668	0.0000	150.4773	150.4773	0.0487	0.0000	151.6939
Total	0.1427	1.4888	0.8864	1.7100e-003	1.6524	0.0726	1.7250	0.5383	0.0668	0.6051	0.0000	150.4773	150.4773	0.0487	0.0000	151.6939

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3.3 Site Preparation - 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	tons/yr										MT/yr					
Hauling	0.0270	1.4520	0.2252	1.7800e-003	7.0100e-003	9.4000e-004	7.9500e-003	1.9500e-003	9.0000e-004	2.8500e-003	0.0000	177.0850	177.0850	0.0282	0.0000	177.7888
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.7600e-003	2.7300e-003	0.0273	9.0000e-005	0.0101	7.0000e-005	0.0102	2.6800e-003	6.0000e-005	2.7500e-003	0.0000	8.4164	8.4164	2.2000e-004	0.0000	8.4219
Total	0.0307	1.4547	0.2525	1.8700e-003	0.0171	1.0100e-003	0.0181	4.6300e-003	9.6000e-004	5.6000e-003	0.0000	185.5014	185.5014	0.0284	0.0000	186.2107

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	tons/yr										MT/yr					
Fugitive Dust					1.6524	0.0000	1.6524	0.5383	0.0000	0.5383	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0419	0.8580	1.0332	1.7100e-003		6.3900e-003	6.3900e-003		6.3900e-003	6.3900e-003	0.0000	150.4771	150.4771	0.0487	0.0000	151.6938
Total	0.0419	0.8580	1.0332	1.7100e-003	1.6524	6.3900e-003	1.6588	0.5383	6.3900e-003	0.5447	0.0000	150.4771	150.4771	0.0487	0.0000	151.6938

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3.3 Site Preparation - 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	tons/yr										MT/yr					
Hauling	0.0270	1.4520	0.2252	1.7800e-003	7.0100e-003	9.4000e-004	7.9500e-003	1.9500e-003	9.0000e-004	2.8500e-003	0.0000	177.0850	177.0850	0.0282	0.0000	177.7888
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.7600e-003	2.7300e-003	0.0273	9.0000e-005	0.0101	7.0000e-005	0.0102	2.6800e-003	6.0000e-005	2.7500e-003	0.0000	8.4164	8.4164	2.2000e-004	0.0000	8.4219
Total	0.0307	1.4547	0.2525	1.8700e-003	0.0171	1.0100e-003	0.0181	4.6300e-003	9.6000e-004	5.6000e-003	0.0000	185.5014	185.5014	0.0284	0.0000	186.2107

3.4 Grading - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					1.9005	0.0000	1.9005	0.6622	0.0000	0.6622	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.4835	5.1981	3.4798	8.0200e-003		0.2166	0.2166		0.1996	0.1996	0.0000	704.5036	704.5036	0.2245	0.0000	710.1167
Total	0.4835	5.1981	3.4798	8.0200e-003	1.9005	0.2166	2.1171	0.6622	0.1996	0.8618	0.0000	704.5036	704.5036	0.2245	0.0000	710.1167

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3.4 Grading - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0300	1.6146	0.2504	1.9800e-003	0.0162	1.0500e-003	0.0172	4.2300e-003	1.0000e-003	5.2300e-003	0.0000	196.9185	196.9185	0.0313	0.0000	197.7011
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0127	9.2100e-003	0.0922	3.1000e-004	0.0341	2.3000e-004	0.0343	9.0600e-003	2.1000e-004	9.2700e-003	0.0000	28.4286	28.4286	7.5000e-004	0.0000	28.4474
Total	0.0427	1.6238	0.3426	2.2900e-003	0.0503	1.2800e-003	0.0516	0.0133	1.2100e-003	0.0145	0.0000	225.3471	225.3471	0.0321	0.0000	226.1485

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	tons/yr										MT/yr					
Fugitive Dust					1.9005	0.0000	1.9005	0.6622	0.0000	0.6622	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1962	3.8496	4.5973	8.0200e-003		0.0243	0.0243		0.0243	0.0243	0.0000	704.5028	704.5028	0.2245	0.0000	710.1158
Total	0.1962	3.8496	4.5973	8.0200e-003	1.9005	0.0243	1.9248	0.6622	0.0243	0.6865	0.0000	704.5028	704.5028	0.2245	0.0000	710.1158

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3.4 Grading - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0300	1.6146	0.2504	1.9800e-003	0.0162	1.0500e-003	0.0172	4.2300e-003	1.0000e-003	5.2300e-003	0.0000	196.9185	196.9185	0.0313	0.0000	197.7011
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0127	9.2100e-003	0.0922	3.1000e-004	0.0341	2.3000e-004	0.0343	9.0600e-003	2.1000e-004	9.2700e-003	0.0000	28.4286	28.4286	7.5000e-004	0.0000	28.4474
Total	0.0427	1.6238	0.3426	2.2900e-003	0.0503	1.2800e-003	0.0516	0.0133	1.2100e-003	0.0145	0.0000	225.3471	225.3471	0.0321	0.0000	226.1485

3.4 Grading - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					2.4154	0.0000	2.4154	0.9452	0.0000	0.9452	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.6585	6.8721	5.0068	0.0120		0.2801	0.2801		0.2581	0.2581	0.0000	1,056.8043	1,056.8043	0.3367	0.0000	1,065.2217
Total	0.6585	6.8721	5.0068	0.0120	2.4154	0.2801	2.6955	0.9452	0.2581	1.2033	0.0000	1,056.8043	1,056.8043	0.3367	0.0000	1,065.2217

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3.4 Grading - 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	tons/yr										MT/yr					
Hauling	0.0328	2.0560	0.3318	2.8600e-003	0.0173	9.1000e-004	0.0182	4.6300e-003	8.7000e-004	5.5000e-003	0.0000	284.8299	284.8299	0.0392	0.0000	285.8101
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0181	0.0126	0.1283	4.5000e-004	0.0512	3.3000e-004	0.0515	0.0136	3.1000e-004	0.0139	0.0000	41.0128	41.0128	1.0300e-003	0.0000	41.0386
Total	0.0509	2.0686	0.4602	3.3100e-003	0.0684	1.2400e-003	0.0697	0.0182	1.1800e-003	0.0194	0.0000	325.8428	325.8428	0.0402	0.0000	326.8487

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	tons/yr										MT/yr					
Fugitive Dust					2.4154	0.0000	2.4154	0.9452	0.0000	0.9452	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.2943	5.7745	6.8959	0.0120		0.0365	0.0365		0.0365	0.0365	0.0000	1,056.8030	1,056.8030	0.3367	0.0000	1,065.2204
Total	0.2943	5.7745	6.8959	0.0120	2.4154	0.0365	2.4519	0.9452	0.0365	0.9817	0.0000	1,056.8030	1,056.8030	0.3367	0.0000	1,065.2204

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3.4 Grading - 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	tons/yr										MT/yr					
Hauling	0.0328	2.0560	0.3318	2.8600e-003	0.0173	9.1000e-004	0.0182	4.6300e-003	8.7000e-004	5.5000e-003	0.0000	284.8299	284.8299	0.0392	0.0000	285.8101
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0181	0.0126	0.1283	4.5000e-004	0.0512	3.3000e-004	0.0515	0.0136	3.1000e-004	0.0139	0.0000	41.0128	41.0128	1.0300e-003	0.0000	41.0386
Total	0.0509	2.0686	0.4602	3.3100e-003	0.0684	1.2400e-003	0.0697	0.0182	1.1800e-003	0.0194	0.0000	325.8428	325.8428	0.0402	0.0000	326.8487

3.5 Paving - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0207	0.2038	0.2917	4.6000e-004		0.0102	0.0102		9.3900e-003	9.3900e-003	0.0000	40.0537	40.0537	0.0130	0.0000	40.3776
Paving	0.0419					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0626	0.2038	0.2917	4.6000e-004		0.0102	0.0102		9.3900e-003	9.3900e-003	0.0000	40.0537	40.0537	0.0130	0.0000	40.3776

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3.5 Paving - 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	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	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	1.3200e-003	9.2000e-004	9.3800e-003	3.0000e-005	3.7400e-003	2.0000e-005	3.7700e-003	9.9000e-004	2.0000e-005	1.0200e-003	0.0000	2.9980	2.9980	8.0000e-005	0.0000	2.9999
Total	1.3200e-003	9.2000e-004	9.3800e-003	3.0000e-005	3.7400e-003	2.0000e-005	3.7700e-003	9.9000e-004	2.0000e-005	1.0200e-003	0.0000	2.9980	2.9980	8.0000e-005	0.0000	2.9999

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	tons/yr										MT/yr					
Off-Road	0.0112	0.2259	0.3459	4.6000e-004		1.8300e-003	1.8300e-003		1.8300e-003	1.8300e-003	0.0000	40.0537	40.0537	0.0130	0.0000	40.3775
Paving	0.0419					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0531	0.2259	0.3459	4.6000e-004		1.8300e-003	1.8300e-003		1.8300e-003	1.8300e-003	0.0000	40.0537	40.0537	0.0130	0.0000	40.3775

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3.5 Paving - 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	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	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	1.3200e-003	9.2000e-004	9.3800e-003	3.0000e-005	3.7400e-003	2.0000e-005	3.7700e-003	9.9000e-004	2.0000e-005	1.0200e-003	0.0000	2.9980	2.9980	8.0000e-005	0.0000	2.9999
Total	1.3200e-003	9.2000e-004	9.3800e-003	3.0000e-005	3.7400e-003	2.0000e-005	3.7700e-003	9.9000e-004	2.0000e-005	1.0200e-003	0.0000	2.9980	2.9980	8.0000e-005	0.0000	2.9999

3.6 Building Construction - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0180	0.1633	0.1859	3.1000e-004		7.9800e-003	7.9800e-003		7.5200e-003	7.5200e-003	0.0000	26.3630	26.3630	6.1000e-003	0.0000	26.5155
Total	0.0180	0.1633	0.1859	3.1000e-004		7.9800e-003	7.9800e-003		7.5200e-003	7.5200e-003	0.0000	26.3630	26.3630	6.1000e-003	0.0000	26.5155

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3.6 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	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0198	0.6964	0.2124	2.2400e-003	0.0566	7.9000e-004	0.0574	0.0164	7.6000e-004	0.0171	0.0000	219.8015	219.8015	0.0153	0.0000	220.1845
Worker	0.1103	0.0770	0.7822	2.7600e-003	0.3119	2.0300e-003	0.3139	0.0829	1.8700e-003	0.0847	0.0000	249.9793	249.9793	6.2800e-003	0.0000	250.1363
Total	0.1301	0.7734	0.9946	5.0000e-003	0.3685	2.8200e-003	0.3714	0.0992	2.6300e-003	0.1019	0.0000	469.7808	469.7808	0.0216	0.0000	470.3208

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	tons/yr										MT/yr					
Off-Road	7.6900e-003	0.1621	0.2035	3.1000e-004		1.5500e-003	1.5500e-003		1.5500e-003	1.5500e-003	0.0000	26.3630	26.3630	6.1000e-003	0.0000	26.5154
Total	7.6900e-003	0.1621	0.2035	3.1000e-004		1.5500e-003	1.5500e-003		1.5500e-003	1.5500e-003	0.0000	26.3630	26.3630	6.1000e-003	0.0000	26.5154

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3.6 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	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0198	0.6964	0.2124	2.2400e-003	0.0566	7.9000e-004	0.0574	0.0164	7.6000e-004	0.0171	0.0000	219.8015	219.8015	0.0153	0.0000	220.1845
Worker	0.1103	0.0770	0.7822	2.7600e-003	0.3119	2.0300e-003	0.3139	0.0829	1.8700e-003	0.0847	0.0000	249.9793	249.9793	6.2800e-003	0.0000	250.1363
Total	0.1301	0.7734	0.9946	5.0000e-003	0.3685	2.8200e-003	0.3714	0.0992	2.6300e-003	0.1019	0.0000	469.7808	469.7808	0.0216	0.0000	470.3208

3.6 Building Construction - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0901	0.8163	0.9895	1.6400e-003		0.0374	0.0374		0.0352	0.0352	0.0000	140.9864	140.9864	0.0324	0.0000	141.7962
Total	0.0901	0.8163	0.9895	1.6400e-003		0.0374	0.0374		0.0352	0.0352	0.0000	140.9864	140.9864	0.0324	0.0000	141.7962

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3.6 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	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.1022	3.6726	1.0980	0.0119	0.3028	4.1200e-003	0.3069	0.0874	3.9400e-003	0.0914	0.0000	1,167.6374	1,167.6374	0.0808	0.0000	1,169.6568
Worker	0.5618	0.3776	3.9090	0.0142	1.6677	0.0107	1.6784	0.4431	9.8300e-003	0.4529	0.0000	1,283.9694	1,283.9694	0.0309	0.0000	1,284.7411
Total	0.6640	4.0502	5.0069	0.0261	1.9705	0.0148	1.9853	0.5305	0.0138	0.5443	0.0000	2,451.6068	2,451.6068	0.1117	0.0000	2,454.3979

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	tons/yr										MT/yr					
Off-Road	0.0411	0.8668	1.0881	1.6400e-003		8.3000e-003	8.3000e-003		8.3000e-003	8.3000e-003	0.0000	140.9862	140.9862	0.0324	0.0000	141.7961
Total	0.0411	0.8668	1.0881	1.6400e-003		8.3000e-003	8.3000e-003		8.3000e-003	8.3000e-003	0.0000	140.9862	140.9862	0.0324	0.0000	141.7961

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3.6 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	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.1022	3.6726	1.0980	0.0119	0.3028	4.1200e-003	0.3069	0.0874	3.9400e-003	0.0914	0.0000	1,167.6374	1,167.6374	0.0808	0.0000	1,169.6568
Worker	0.5618	0.3776	3.9090	0.0142	1.6677	0.0107	1.6784	0.4431	9.8300e-003	0.4529	0.0000	1,283.9694	1,283.9694	0.0309	0.0000	1,284.7411
Total	0.6640	4.0502	5.0069	0.0261	1.9705	0.0148	1.9853	0.5305	0.0138	0.5443	0.0000	2,451.6068	2,451.6068	0.1117	0.0000	2,454.3979

3.6 Building Construction - 2025

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0834	0.7551	0.9808	1.6400e-003		0.0320	0.0320		0.0302	0.0302	0.0000	140.4876	140.4876	0.0321	0.0000	141.2893
Total	0.0834	0.7551	0.9808	1.6400e-003		0.0320	0.0320		0.0302	0.0302	0.0000	140.4876	140.4876	0.0321	0.0000	141.2893

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3.6 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	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0987	3.6067	1.0706	0.0118	0.3016	3.9800e-003	0.3056	0.0871	3.8000e-003	0.0909	0.0000	1,155.9638	1,155.9638	0.0795	0.0000	1,157.9509
Worker	0.5354	0.3471	3.6363	0.0136	1.6614	0.0105	1.6718	0.4414	9.6300e-003	0.4510	0.0000	1,227.3308	1,227.3308	0.0284	0.0000	1,228.0407
Total	0.6341	3.9538	4.7069	0.0253	1.9630	0.0144	1.9774	0.5285	0.0134	0.5419	0.0000	2,383.2946	2,383.2946	0.1079	0.0000	2,385.9916

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	tons/yr										MT/yr					
Off-Road	0.0410	0.8635	1.0839	1.6400e-003		8.2700e-003	8.2700e-003		8.2700e-003	8.2700e-003	0.0000	140.4875	140.4875	0.0321	0.0000	141.2891
Total	0.0410	0.8635	1.0839	1.6400e-003		8.2700e-003	8.2700e-003		8.2700e-003	8.2700e-003	0.0000	140.4875	140.4875	0.0321	0.0000	141.2891

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3.6 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	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0987	3.6067	1.0706	0.0118	0.3016	3.9800e-003	0.3056	0.0871	3.8000e-003	0.0909	0.0000	1,155.9638	1,155.9638	0.0795	0.0000	1,157.9509
Worker	0.5354	0.3471	3.6363	0.0136	1.6614	0.0105	1.6718	0.4414	9.6300e-003	0.4510	0.0000	1,227.3308	1,227.3308	0.0284	0.0000	1,228.0407
Total	0.6341	3.9538	4.7069	0.0253	1.9630	0.0144	1.9774	0.5285	0.0134	0.5419	0.0000	2,383.2946	2,383.2946	0.1079	0.0000	2,385.9916

3.6 Building Construction - 2026

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0834	0.7551	0.9808	1.6400e-003		0.0320	0.0320		0.0302	0.0302	0.0000	140.4876	140.4876	0.0321	0.0000	141.2893
Total	0.0834	0.7551	0.9808	1.6400e-003		0.0320	0.0320		0.0302	0.0302	0.0000	140.4876	140.4876	0.0321	0.0000	141.2893

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3.6 Building Construction - 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	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0961	3.5565	1.0544	0.0117	0.3016	3.8600e-003	0.3055	0.0871	3.6900e-003	0.0908	0.0000	1,149.2071	1,149.2071	0.0786	0.0000	1,151.1710
Worker	0.5143	0.3231	3.4189	0.0131	1.6614	0.0101	1.6715	0.4414	9.3200e-003	0.4507	0.0000	1,182.3743	1,182.3743	0.0265	0.0000	1,183.0360
Total	0.6104	3.8796	4.4732	0.0247	1.9630	0.0140	1.9770	0.5285	0.0130	0.5415	0.0000	2,331.5814	2,331.5814	0.1050	0.0000	2,334.2070

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	tons/yr										MT/yr					
Off-Road	0.0410	0.8635	1.0839	1.6400e-003		8.2700e-003	8.2700e-003		8.2700e-003	8.2700e-003	0.0000	140.4875	140.4875	0.0321	0.0000	141.2891
Total	0.0410	0.8635	1.0839	1.6400e-003		8.2700e-003	8.2700e-003		8.2700e-003	8.2700e-003	0.0000	140.4875	140.4875	0.0321	0.0000	141.2891

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3.6 Building Construction - 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	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0961	3.5565	1.0544	0.0117	0.3016	3.8600e-003	0.3055	0.0871	3.6900e-003	0.0908	0.0000	1,149.2071	1,149.2071	0.0786	0.0000	1,151.1710
Worker	0.5143	0.3231	3.4189	0.0131	1.6614	0.0101	1.6715	0.4414	9.3200e-003	0.4507	0.0000	1,182.3743	1,182.3743	0.0265	0.0000	1,183.0360
Total	0.6104	3.8796	4.4732	0.0247	1.9630	0.0140	1.9770	0.5285	0.0130	0.5415	0.0000	2,331.5814	2,331.5814	0.1050	0.0000	2,334.2070

3.6 Building Construction - 2027

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0834	0.7551	0.9808	1.6400e-003		0.0320	0.0320		0.0302	0.0302	0.0000	140.4876	140.4876	0.0321	0.0000	141.2893
Total	0.0834	0.7551	0.9808	1.6400e-003		0.0320	0.0320		0.0302	0.0302	0.0000	140.4876	140.4876	0.0321	0.0000	141.2893

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3.6 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	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0940	3.5086	1.0406	0.0116	0.3016	3.7600e-003	0.3054	0.0871	3.5900e-003	0.0907	0.0000	1,143.0366	1,143.0366	0.0778	0.0000	1,144.9804
Worker	0.4929	0.3018	3.2260	0.0126	1.6614	9.5800e-003	1.6709	0.4414	8.8100e-003	0.4502	0.0000	1,142.7690	1,142.7690	0.0248	0.0000	1,143.3887
Total	0.5869	3.8104	4.2666	0.0242	1.9630	0.0133	1.9763	0.5285	0.0124	0.5409	0.0000	2,285.8056	2,285.8056	0.1025	0.0000	2,288.3691

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	tons/yr										MT/yr					
Off-Road	0.0410	0.8635	1.0839	1.6400e-003		8.2700e-003	8.2700e-003		8.2700e-003	8.2700e-003	0.0000	140.4875	140.4875	0.0321	0.0000	141.2891
Total	0.0410	0.8635	1.0839	1.6400e-003		8.2700e-003	8.2700e-003		8.2700e-003	8.2700e-003	0.0000	140.4875	140.4875	0.0321	0.0000	141.2891

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3.6 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	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0940	3.5086	1.0406	0.0116	0.3016	3.7600e-003	0.3054	0.0871	3.5900e-003	0.0907	0.0000	1,143.0366	1,143.0366	0.0778	0.0000	1,144.9804
Worker	0.4929	0.3018	3.2260	0.0126	1.6614	9.5800e-003	1.6709	0.4414	8.8100e-003	0.4502	0.0000	1,142.7690	1,142.7690	0.0248	0.0000	1,143.3887
Total	0.5869	3.8104	4.2666	0.0242	1.9630	0.0133	1.9763	0.5285	0.0124	0.5409	0.0000	2,285.8056	2,285.8056	0.1025	0.0000	2,288.3691

3.6 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	tons/yr										MT/yr					
Off-Road	0.0831	0.7523	0.9771	1.6300e-003		0.0319	0.0319		0.0300	0.0300	0.0000	139.9494	139.9494	0.0319	0.0000	140.7480
Total	0.0831	0.7523	0.9771	1.6300e-003		0.0319	0.0319		0.0300	0.0300	0.0000	139.9494	139.9494	0.0319	0.0000	140.7480

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3.6 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	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0919	3.4551	1.0294	0.0115	0.3005	3.6600e-003	0.3041	0.0868	3.5000e-003	0.0903	0.0000	1,133.4954	1,133.4954	0.0767	0.0000	1,135.4134
Worker	0.4682	0.2819	3.0465	0.0122	1.6550	8.8300e-003	1.6638	0.4397	8.1200e-003	0.4478	0.0000	1,103.7815	1,103.7815	0.0233	0.0000	1,104.3635
Total	0.5601	3.7370	4.0760	0.0237	1.9555	0.0125	1.9679	0.5264	0.0116	0.5381	0.0000	2,237.2769	2,237.2769	0.1000	0.0000	2,239.7769

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	tons/yr										MT/yr					
Off-Road	0.0408	0.8602	1.0798	1.6300e-003		8.2400e-003	8.2400e-003		8.2400e-003	8.2400e-003	0.0000	139.9492	139.9492	0.0319	0.0000	140.7478
Total	0.0408	0.8602	1.0798	1.6300e-003		8.2400e-003	8.2400e-003		8.2400e-003	8.2400e-003	0.0000	139.9492	139.9492	0.0319	0.0000	140.7478

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3.6 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	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0919	3.4551	1.0294	0.0115	0.3005	3.6600e-003	0.3041	0.0868	3.5000e-003	0.0903	0.0000	1,133.4954	1,133.4954	0.0767	0.0000	1,135.4134
Worker	0.4682	0.2819	3.0465	0.0122	1.6550	8.8300e-003	1.6638	0.4397	8.1200e-003	0.4478	0.0000	1,103.7815	1,103.7815	0.0233	0.0000	1,104.3635
Total	0.5601	3.7370	4.0760	0.0237	1.9555	0.0125	1.9679	0.5264	0.0116	0.5381	0.0000	2,237.2769	2,237.2769	0.1000	0.0000	2,239.7769

3.6 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	tons/yr										MT/yr					
Off-Road	0.0428	0.3877	0.5036	8.4000e-004		0.0164	0.0164		0.0155	0.0155	0.0000	72.1278	72.1278	0.0165	0.0000	72.5393
Total	0.0428	0.3877	0.5036	8.4000e-004		0.0164	0.0164		0.0155	0.0155	0.0000	72.1278	72.1278	0.0165	0.0000	72.5393

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3.6 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	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0465	1.7595	0.5265	5.8900e-003	0.1549	1.8400e-003	0.1567	0.0447	1.7600e-003	0.0465	0.0000	581.5779	581.5779	0.0393	0.0000	582.5594
Worker	0.2284	0.1364	1.4882	6.1100e-003	0.8530	4.2200e-003	0.8572	0.2266	3.8800e-003	0.2305	0.0000	553.1950	553.1950	0.0113	0.0000	553.4781
Total	0.2750	1.8959	2.0147	0.0120	1.0078	6.0600e-003	1.0139	0.2713	5.6400e-003	0.2770	0.0000	1,134.7729	1,134.7729	0.0506	0.0000	1,136.0375

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	tons/yr										MT/yr					
Off-Road	0.0210	0.4433	0.5565	8.4000e-004		4.2500e-003	4.2500e-003		4.2500e-003	4.2500e-003	0.0000	72.1277	72.1277	0.0165	0.0000	72.5392
Total	0.0210	0.4433	0.5565	8.4000e-004		4.2500e-003	4.2500e-003		4.2500e-003	4.2500e-003	0.0000	72.1277	72.1277	0.0165	0.0000	72.5392

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3.6 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	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0465	1.7595	0.5265	5.8900e-003	0.1549	1.8400e-003	0.1567	0.0447	1.7600e-003	0.0465	0.0000	581.5779	581.5779	0.0393	0.0000	582.5594
Worker	0.2284	0.1364	1.4882	6.1100e-003	0.8530	4.2200e-003	0.8572	0.2266	3.8800e-003	0.2305	0.0000	553.1950	553.1950	0.0113	0.0000	553.4781
Total	0.2750	1.8959	2.0147	0.0120	1.0078	6.0600e-003	1.0139	0.2713	5.6400e-003	0.2770	0.0000	1,134.7729	1,134.7729	0.0506	0.0000	1,136.0375

3.7 Architectural Coating - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.5631					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	7.3200e-003	0.0494	0.0733	1.2000e-004		2.4700e-003	2.4700e-003		2.4700e-003	2.4700e-003	0.0000	10.3407	10.3407	5.8000e-004	0.0000	10.3552
Total	0.5704	0.0494	0.0733	1.2000e-004		2.4700e-003	2.4700e-003		2.4700e-003	2.4700e-003	0.0000	10.3407	10.3407	5.8000e-004	0.0000	10.3552

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3.7 Architectural Coating - 2024

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	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	0.0694	0.0467	0.4829	1.7500e-003	0.2060	1.3200e-003	0.2074	0.0547	1.2100e-003	0.0560	0.0000	158.6254	158.6254	3.8100e-003	0.0000	158.7208
Total	0.0694	0.0467	0.4829	1.7500e-003	0.2060	1.3200e-003	0.2074	0.0547	1.2100e-003	0.0560	0.0000	158.6254	158.6254	3.8100e-003	0.0000	158.7208

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	tons/yr										MT/yr					
Archit. Coating	0.5631					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.4100e-003	0.0550	0.0742	1.2000e-004		5.8000e-004	5.8000e-004		5.8000e-004	5.8000e-004	0.0000	10.3407	10.3407	5.8000e-004	0.0000	10.3552
Total	0.5655	0.0550	0.0742	1.2000e-004		5.8000e-004	5.8000e-004		5.8000e-004	5.8000e-004	0.0000	10.3407	10.3407	5.8000e-004	0.0000	10.3552

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3.7 Architectural Coating - 2024

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	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	0.0694	0.0467	0.4829	1.7500e-003	0.2060	1.3200e-003	0.2074	0.0547	1.2100e-003	0.0560	0.0000	158.6254	158.6254	3.8100e-003	0.0000	158.7208
Total	0.0694	0.0467	0.4829	1.7500e-003	0.2060	1.3200e-003	0.2074	0.0547	1.2100e-003	0.0560	0.0000	158.6254	158.6254	3.8100e-003	0.0000	158.7208

3.7 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	tons/yr										MT/yr					
Archit. Coating	0.9072					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0112	0.0747	0.1181	1.9000e-004		3.3600e-003	3.3600e-003		3.3600e-003	3.3600e-003	0.0000	16.6600	16.6600	9.1000e-004	0.0000	16.6827
Total	0.9183	0.0747	0.1181	1.9000e-004		3.3600e-003	3.3600e-003		3.3600e-003	3.3600e-003	0.0000	16.6600	16.6600	9.1000e-004	0.0000	16.6827

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3.7 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	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	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	0.1070	0.0694	0.7266	2.7100e-003	0.3319	2.0900e-003	0.3340	0.0882	1.9200e-003	0.0901	0.0000	245.2258	245.2258	5.6700e-003	0.0000	245.3676
Total	0.1070	0.0694	0.7266	2.7100e-003	0.3319	2.0900e-003	0.3340	0.0882	1.9200e-003	0.0901	0.0000	245.2258	245.2258	5.6700e-003	0.0000	245.3676

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	tons/yr										MT/yr					
Archit. Coating	0.9072					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	3.8800e-003	0.0885	0.1196	1.9000e-004		9.3000e-004	9.3000e-004		9.3000e-004	9.3000e-004	0.0000	16.6600	16.6600	9.1000e-004	0.0000	16.6827
Total	0.9110	0.0885	0.1196	1.9000e-004		9.3000e-004	9.3000e-004		9.3000e-004	9.3000e-004	0.0000	16.6600	16.6600	9.1000e-004	0.0000	16.6827

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3.7 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	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	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	0.1070	0.0694	0.7266	2.7100e-003	0.3319	2.0900e-003	0.3340	0.0882	1.9200e-003	0.0901	0.0000	245.2258	245.2258	5.6700e-003	0.0000	245.3676
Total	0.1070	0.0694	0.7266	2.7100e-003	0.3319	2.0900e-003	0.3340	0.0882	1.9200e-003	0.0901	0.0000	245.2258	245.2258	5.6700e-003	0.0000	245.3676

3.7 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	tons/yr										MT/yr					
Archit. Coating	0.9072					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0112	0.0747	0.1181	1.9000e-004		3.3600e-003	3.3600e-003		3.3600e-003	3.3600e-003	0.0000	16.6600	16.6600	9.1000e-004	0.0000	16.6827
Total	0.9183	0.0747	0.1181	1.9000e-004		3.3600e-003	3.3600e-003		3.3600e-003	3.3600e-003	0.0000	16.6600	16.6600	9.1000e-004	0.0000	16.6827

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3.7 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	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	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	0.1028	0.0646	0.6831	2.6100e-003	0.3319	2.0200e-003	0.3340	0.0882	1.8600e-003	0.0901	0.0000	236.2433	236.2433	5.2900e-003	0.0000	236.3755
Total	0.1028	0.0646	0.6831	2.6100e-003	0.3319	2.0200e-003	0.3340	0.0882	1.8600e-003	0.0901	0.0000	236.2433	236.2433	5.2900e-003	0.0000	236.3755

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	tons/yr										MT/yr					
Archit. Coating	0.9072					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	3.8800e-003	0.0885	0.1196	1.9000e-004		9.3000e-004	9.3000e-004		9.3000e-004	9.3000e-004	0.0000	16.6600	16.6600	9.1000e-004	0.0000	16.6827
Total	0.9110	0.0885	0.1196	1.9000e-004		9.3000e-004	9.3000e-004		9.3000e-004	9.3000e-004	0.0000	16.6600	16.6600	9.1000e-004	0.0000	16.6827

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3.7 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	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	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	0.1028	0.0646	0.6831	2.6100e-003	0.3319	2.0200e-003	0.3340	0.0882	1.8600e-003	0.0901	0.0000	236.2433	236.2433	5.2900e-003	0.0000	236.3755
Total	0.1028	0.0646	0.6831	2.6100e-003	0.3319	2.0200e-003	0.3340	0.0882	1.8600e-003	0.0901	0.0000	236.2433	236.2433	5.2900e-003	0.0000	236.3755

3.7 Architectural Coating - 2027

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.9072					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0112	0.0747	0.1181	1.9000e-004		3.3600e-003	3.3600e-003		3.3600e-003	3.3600e-003	0.0000	16.6600	16.6600	9.1000e-004	0.0000	16.6827
Total	0.9183	0.0747	0.1181	1.9000e-004		3.3600e-003	3.3600e-003		3.3600e-003	3.3600e-003	0.0000	16.6600	16.6600	9.1000e-004	0.0000	16.6827

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3.7 Architectural Coating - 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	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	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	0.0985	0.0603	0.6446	2.5200e-003	0.3319	1.9100e-003	0.3339	0.0882	1.7600e-003	0.0900	0.0000	228.3300	228.3300	4.9500e-003	0.0000	228.4538
Total	0.0985	0.0603	0.6446	2.5200e-003	0.3319	1.9100e-003	0.3339	0.0882	1.7600e-003	0.0900	0.0000	228.3300	228.3300	4.9500e-003	0.0000	228.4538

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	tons/yr										MT/yr					
Archit. Coating	0.9072					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	3.8800e-003	0.0885	0.1196	1.9000e-004		9.3000e-004	9.3000e-004		9.3000e-004	9.3000e-004	0.0000	16.6600	16.6600	9.1000e-004	0.0000	16.6827
Total	0.9110	0.0885	0.1196	1.9000e-004		9.3000e-004	9.3000e-004		9.3000e-004	9.3000e-004	0.0000	16.6600	16.6600	9.1000e-004	0.0000	16.6827

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3.7 Architectural Coating - 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	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	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	0.0985	0.0603	0.6446	2.5200e-003	0.3319	1.9100e-003	0.3339	0.0882	1.7600e-003	0.0900	0.0000	228.3300	228.3300	4.9500e-003	0.0000	228.4538
Total	0.0985	0.0603	0.6446	2.5200e-003	0.3319	1.9100e-003	0.3339	0.0882	1.7600e-003	0.0900	0.0000	228.3300	228.3300	4.9500e-003	0.0000	228.4538

3.7 Architectural Coating - 2028

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.9037					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0111	0.0745	0.1176	1.9000e-004		3.3500e-003	3.3500e-003		3.3500e-003	3.3500e-003	0.0000	16.5962	16.5962	9.1000e-004	0.0000	16.6188
Total	0.9148	0.0745	0.1176	1.9000e-004		3.3500e-003	3.3500e-003		3.3500e-003	3.3500e-003	0.0000	16.5962	16.5962	9.1000e-004	0.0000	16.6188

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3.7 Architectural Coating - 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	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	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	0.0936	0.0563	0.6087	2.4400e-003	0.3307	1.7600e-003	0.3324	0.0879	1.6200e-003	0.0895	0.0000	220.5401	220.5401	4.6500e-003	0.0000	220.6564
Total	0.0936	0.0563	0.6087	2.4400e-003	0.3307	1.7600e-003	0.3324	0.0879	1.6200e-003	0.0895	0.0000	220.5401	220.5401	4.6500e-003	0.0000	220.6564

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	tons/yr										MT/yr					
Archit. Coating	0.9037					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	3.8600e-003	0.0882	0.1191	1.9000e-004		9.3000e-004	9.3000e-004		9.3000e-004	9.3000e-004	0.0000	16.5961	16.5961	9.1000e-004	0.0000	16.6188
Total	0.9076	0.0882	0.1191	1.9000e-004		9.3000e-004	9.3000e-004		9.3000e-004	9.3000e-004	0.0000	16.5961	16.5961	9.1000e-004	0.0000	16.6188

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3.7 Architectural Coating - 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	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	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	0.0936	0.0563	0.6087	2.4400e-003	0.3307	1.7600e-003	0.3324	0.0879	1.6200e-003	0.0895	0.0000	220.5401	220.5401	4.6500e-003	0.0000	220.6564
Total	0.0936	0.0563	0.6087	2.4400e-003	0.3307	1.7600e-003	0.3324	0.0879	1.6200e-003	0.0895	0.0000	220.5401	220.5401	4.6500e-003	0.0000	220.6564

3.7 Architectural Coating - 2029

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.4658					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	5.7200e-003	0.0384	0.0606	1.0000e-004		1.7300e-003	1.7300e-003		1.7300e-003	1.7300e-003	0.0000	8.5534	8.5534	4.7000e-004	0.0000	8.5651
Total	0.4715	0.0384	0.0606	1.0000e-004		1.7300e-003	1.7300e-003		1.7300e-003	1.7300e-003	0.0000	8.5534	8.5534	4.7000e-004	0.0000	8.5651

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3.7 Architectural Coating - 2029

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	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	0.0456	0.0273	0.2974	1.2200e-003	0.1704	8.4000e-004	0.1713	0.0453	7.8000e-004	0.0461	0.0000	110.5306	110.5306	2.2600e-003	0.0000	110.5872
Total	0.0456	0.0273	0.2974	1.2200e-003	0.1704	8.4000e-004	0.1713	0.0453	7.8000e-004	0.0461	0.0000	110.5306	110.5306	2.2600e-003	0.0000	110.5872

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	tons/yr										MT/yr					
Archit. Coating	0.4658					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.9900e-003	0.0455	0.0614	1.0000e-004		4.8000e-004	4.8000e-004		4.8000e-004	4.8000e-004	0.0000	8.5534	8.5534	4.7000e-004	0.0000	8.5651
Total	0.4677	0.0455	0.0614	1.0000e-004		4.8000e-004	4.8000e-004		4.8000e-004	4.8000e-004	0.0000	8.5534	8.5534	4.7000e-004	0.0000	8.5651

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3.7 Architectural Coating - 2029

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	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	0.0456	0.0273	0.2974	1.2200e-003	0.1704	8.4000e-004	0.1713	0.0453	7.8000e-004	0.0461	0.0000	110.5306	110.5306	2.2600e-003	0.0000	110.5872
Total	0.0456	0.0273	0.2974	1.2200e-003	0.1704	8.4000e-004	0.1713	0.0453	7.8000e-004	0.0461	0.0000	110.5306	110.5306	2.2600e-003	0.0000	110.5872

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

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	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.8817	3.8432	11.5741	0.0493	5.5842	0.0315	5.6158	1.4948	0.0293	1.5241	0.0000	4,579.5905	4,579.5905	0.2155	0.0000	4,584.9771
Unmitigated	0.8817	3.8432	11.5741	0.0493	5.5842	0.0315	5.6158	1.4948	0.0293	1.5241	0.0000	4,579.5905	4,579.5905	0.2155	0.0000	4,584.9771

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
City Park	0.00	0.00	0.00		
Other Asphalt Surfaces	0.00	0.00	0.00		
Single Family Housing	3,991.68	3,991.68	3,991.68	14,826,012	14,826,012
Total	3,991.68	3,991.68	3,991.68	14,826,012	14,826,012

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	14.70	6.60	6.60	33.00	48.00	19.00	66	28	6
Other Asphalt Surfaces	14.70	6.60	6.60	0.00	0.00	0.00	0	0	0
Single Family Housing	16.80	7.10	7.90	42.00	18.00	40.00	86	11	3

4.4 Fleet Mix

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Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
City Park	0.616428	0.037185	0.177402	0.097684	0.012090	0.005279	0.017663	0.025476	0.001931	0.001677	0.005617	0.000785	0.000782
Other Asphalt Surfaces	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
Single Family Housing	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

Install High Efficiency Lighting

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	509.7239	509.7239	0.0203	3.8000e-003	511.3625
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	585.3312	585.3312	0.0233	4.3600e-003	587.2129
NaturalGas Mitigated	0.0499	0.4267	0.1816	2.7200e-003		0.0345	0.0345		0.0345	0.0345	0.0000	494.2140	494.2140	9.4700e-003	9.0600e-003	497.1509
NaturalGas Unmitigated	0.0499	0.4267	0.1816	2.7200e-003		0.0345	0.0345		0.0345	0.0345	0.0000	494.2140	494.2140	9.4700e-003	9.0600e-003	497.1509

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5.2 Energy by Land Use - Natural Gas

Unmitigated

	Natural Gas 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	tons/yr										MT/yr					
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
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Single Family Housing	9.26122e+006	0.0499	0.4267	0.1816	2.7200e-003		0.0345	0.0345		0.0345	0.0345	0.0000	494.2140	494.2140	9.4700e-003	9.0600e-003	497.1509
Total		0.0499	0.4267	0.1816	2.7200e-003		0.0345	0.0345		0.0345	0.0345	0.0000	494.2140	494.2140	9.4700e-003	9.0600e-003	497.1509

Mitigated

	Natural Gas 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	tons/yr										MT/yr					
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
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Single Family Housing	9.26122e+006	0.0499	0.4267	0.1816	2.7200e-003		0.0345	0.0345		0.0345	0.0345	0.0000	494.2140	494.2140	9.4700e-003	9.0600e-003	497.1509
Total		0.0499	0.4267	0.1816	2.7200e-003		0.0345	0.0345		0.0345	0.0345	0.0000	494.2140	494.2140	9.4700e-003	9.0600e-003	497.1509

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5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
City Park	0	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	3.20597e+006	585.3312	0.0233	4.3600e-003	587.2129
Total		585.3312	0.0233	4.3600e-003	587.2129

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
City Park	0	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	2.79185e+006	509.7239	0.0203	3.8000e-003	511.3625
Total		509.7239	0.0203	3.8000e-003	511.3625

6.0 Area Detail

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6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	3.4652	0.3031	3.0476	1.8700e-003		0.0381	0.0381		0.0381	0.0381	0.0000	316.7132	316.7132	0.0106	5.7200e-003	318.6812
Unmitigated	3.4652	0.3031	3.0476	1.8700e-003		0.0381	0.0381		0.0381	0.0381	0.0000	316.7132	316.7132	0.0106	5.7200e-003	318.6812

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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	tons/yr										MT/yr					
Architectural Coating	0.4654					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	2.8805					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0315	0.2693	0.1146	1.7200e-003		0.0218	0.0218		0.0218	0.0218	0.0000	311.9093	311.9093	5.9800e-003	5.7200e-003	313.7629
Landscaping	0.0878	0.0338	2.9330	1.6000e-004		0.0163	0.0163		0.0163	0.0163	0.0000	4.8039	4.8039	4.5800e-003	0.0000	4.9183
Total	3.4652	0.3031	3.0476	1.8800e-003		0.0381	0.0381		0.0381	0.0381	0.0000	316.7132	316.7132	0.0106	5.7200e-003	318.6812

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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	tons/yr										MT/yr					
Architectural Coating	0.4654					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	2.8805					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0315	0.2693	0.1146	1.7200e-003		0.0218	0.0218		0.0218	0.0218	0.0000	311.9093	311.9093	5.9800e-003	5.7200e-003	313.7629
Landscaping	0.0878	0.0338	2.9330	1.6000e-004		0.0163	0.0163		0.0163	0.0163	0.0000	4.8039	4.8039	4.5800e-003	0.0000	4.9183
Total	3.4652	0.3031	3.0476	1.8800e-003		0.0381	0.0381		0.0381	0.0381	0.0000	316.7132	316.7132	0.0106	5.7200e-003	318.6812

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

Ocean Breeze Ranch 2030 Operations - San Diego County, Annual

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	126.8529	0.8454	0.0207	154.1682
Unmitigated	141.1855	0.8460	0.0208	168.5469

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
City Park	0 / 19.0637	38.6691	1.5400e-003	2.9000e-004	38.7934
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	25.801 / 16.2658	102.5164	0.8445	0.0206	129.7535
Total		141.1855	0.8460	0.0208	168.5469

Ocean Breeze Ranch 2030 Operations - San Diego County, Annual

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
City Park	0 / 15.251	30.9353	1.2300e-003	2.3000e-004	31.0347
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	25.801 / 13.0127	95.9176	0.8442	0.0205	123.1335
Total		126.8529	0.8454	0.0207	154.1683

8.0 Waste Detail

8.1 Mitigation Measures Waste

Institute Recycling and Composting Services

Ocean Breeze Ranch 2030 Operations - San Diego County, Annual

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	70.9316	4.1919	0.0000	175.7301
Unmitigated	94.5755	5.5893	0.0000	234.3069

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
City Park	1.38	0.2801	0.0166	0.0000	0.6940
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	464.53	94.2954	5.5727	0.0000	233.6128
Total		94.5755	5.5893	0.0000	234.3068

Ocean Breeze Ranch 2030 Operations - San Diego County, Annual

8.2 Waste by Land Use

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
City Park	1.035	0.2101	0.0124	0.0000	0.5205
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	348.397	70.7215	4.1795	0.0000	175.2096
Total		70.9316	4.1919	0.0000	175.7301

9.0 Operational Offroad

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

Fire Pumps and Emergency Generators

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

Boilers

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

Equipment Type	Number
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Ocean Breeze Ranch 2030 Operations - San Diego County, Annual

11.0 Vegetation

ATTACHMENT B

SCREEN3 for DPM PM₁₀

*** SCREEN3 MODEL RUN ***
*** VERSION DATED 13043 ***

obr

SIMPLE TERRAIN INPUTS:

SOURCE TYPE = AREA
EMISSION RATE (G/(S-M**2)) = 0.218000E-08
SOURCE HEIGHT (M) = 3.0000
LENGTH OF LARGER SIDE (M) = 1123.6700
LENGTH OF SMALLER SIDE (M) = 1123.6700
RECEPTOR HEIGHT (M) = 1.5000
URBAN/RURAL OPTION = RURAL

THE REGULATORY (DEFAULT) MIXING HEIGHT OPTION WAS SELECTED.
THE REGULATORY (DEFAULT) ANEMOMETER HEIGHT OF 10.0 METERS WAS ENTERED.

MODEL ESTIMATES DIRECTION TO MAX CONCENTRATION

BUOY. FLUX = 0.000 M**4/S**3; MOM. FLUX = 0.000 M**4/S**2.

*** FULL METEOROLOGY ***

*** SCREEN AUTOMATED DISTANCES ***

*** TERRAIN HEIGHT OF 0. M ABOVE STACK BASE USED FOR FOLLOWING DISTANCES ***

DI ST (M)	CONC (UG/M**3)	STAB	U10M (M/S)	USTK (M/S)	MIX HT (M)	PLUME HT (M)	MAX DIR (DEG)
10.	0.1829	6	1.0	1.0	10000.0	3.00	45.
100.	0.1951	6	1.0	1.0	10000.0	3.00	45.
200.	0.2074	6	1.0	1.0	10000.0	3.00	45.
300.	0.2171	6	1.0	1.0	10000.0	3.00	45.
400.	0.2288	6	1.0	1.0	10000.0	3.00	45.
500.	0.2398	6	1.0	1.0	10000.0	3.00	45.
600.	0.2503	6	1.0	1.0	10000.0	3.00	45.
700.	0.2602	6	1.0	1.0	10000.0	3.00	45.
800.	0.2685	6	1.0	1.0	10000.0	3.00	45.
900.	0.2458	6	1.0	1.0	10000.0	3.00	45.
1000.	0.2200	6	1.0	1.0	10000.0	3.00	45.
1100.	0.1996	6	1.0	1.0	10000.0	3.00	45.
1200.	0.1835	6	1.0	1.0	10000.0	3.00	45.
1300.	0.1707	6	1.0	1.0	10000.0	3.00	45.
1400.	0.1603	6	1.0	1.0	10000.0	3.00	45.
1500.	0.1516	6	1.0	1.0	10000.0	3.00	45.
1600.	0.1443	6	1.0	1.0	10000.0	3.00	45.
1700.	0.1379	6	1.0	1.0	10000.0	3.00	45.
1800.	0.1322	6	1.0	1.0	10000.0	3.00	45.
1900.	0.1271	6	1.0	1.0	10000.0	3.00	45.
2000.	0.1226	6	1.0	1.0	10000.0	3.00	45.
2100.	0.1185	6	1.0	1.0	10000.0	3.00	45.
2200.	0.1147	6	1.0	1.0	10000.0	3.00	45.
2300.	0.1113	6	1.0	1.0	10000.0	3.00	45.
2400.	0.1081	6	1.0	1.0	10000.0	3.00	45.
2500.	0.1052	6	1.0	1.0	10000.0	3.00	45.
2600.	0.1026	6	1.0	1.0	10000.0	3.00	45.
2700.	0.1001	6	1.0	1.0	10000.0	3.00	45.
2800.	0.9785E-01	6	1.0	1.0	10000.0	3.00	45.

Screen3

2900.	0.9573E-01	6	1.0	1.0	10000.0	3.00	45.
3000.	0.9374E-01	6	1.0	1.0	10000.0	3.00	45.
3500.	0.8536E-01	6	1.0	1.0	10000.0	3.00	45.
4000.	0.7890E-01	6	1.0	1.0	10000.0	3.00	45.
4500.	0.7352E-01	6	1.0	1.0	10000.0	3.00	45.
5000.	0.6892E-01	6	1.0	1.0	10000.0	3.00	45.
5500.	0.6491E-01	6	1.0	1.0	10000.0	3.00	45.
6000.	0.6136E-01	6	1.0	1.0	10000.0	3.00	45.
6500.	0.5821E-01	6	1.0	1.0	10000.0	3.00	45.
7000.	0.5541E-01	6	1.0	1.0	10000.0	3.00	45.
7500.	0.5293E-01	6	1.0	1.0	10000.0	3.00	45.
8000.	0.5071E-01	6	1.0	1.0	10000.0	3.00	45.
8500.	0.4867E-01	6	1.0	1.0	10000.0	3.00	45.
9000.	0.4676E-01	6	1.0	1.0	10000.0	3.00	45.
9500.	0.4499E-01	6	1.0	1.0	10000.0	3.00	45.
10000.	0.4332E-01	6	1.0	1.0	10000.0	3.00	45.

MAXIMUM 1-HR CONCENTRATION AT OR BEYOND 10. M:
 795. 0.2692 6 1.0 1.0 10000.0 3.00 45.

 *** SUMMARY OF SCREEN MODEL RESULTS ***

CALCULATION PROCEDURE	MAX CONC (UG/M**3)	DI ST TO MAX (M)	TERRAIN HT (M)
----- SIMPLE TERRAIN	0.2692	795.	0.

 ** REMEMBER TO INCLUDE BACKGROUND CONCENTRATIONS **

ATTACHMENT C

Health Risk Calculations

**Air Quality Health Risk Calculations (Worst-Case)
OBR with Tier 3 PDF**

From CalEIR Annual Output	Emission per day (Ton/Total Construction Duration)	0.82				
	Construction Start	3/1/2022				
	Construction Complete	2/15/2029				
	Days	2543				
	Construction Emission per day (lb/day)	0.644907589				
	Annual Duration (Days)	365				
	Annualized Emission Rate (Grams/Second)	0.003381286				
	Project Site Size (Acres)	312				
	Project Site Size (meters ²)	1262619.204				
	Length of Smalles Side (meters)	1123.663296				
Used as an input to SCREEN3 From SCREEN3*0.08	Emission Rate over Grading Area(g/s-m ²)	2.68E-09				
	Concentration Annual (Ug/M ³)	0.01008				
Duration	Days	Days to years				
	458	1.254794521				
Age (Years)	3rd Trimester (0.25)	0-2	2-9	2-16	16-30	16-70
Cair (annual) - From F15	0.01008	0.01008	0.01008	0.01008	0.01008	0.01008
Breathing Rate per agegroup BR/BW (Page 5-25)	361	1090	861	745	335	290
A (Default is 1)	1	1	1	1	1	1
Exposure Frequency = EF (days/365days)	0.96	0.96	0.96	0.96	0.96	0.96
10 ⁻⁶ Microgram to Milligram / liters to m ³	0.000001	0.000001	0.000001	0.000001	0.000001	0.000001
Dose-inh	0.00000349	0.00001055	0.00000833	0.00000721	0.00000324	0.00000281
Construction Days	458	1.254794521				
potency factor for Diesel	1.1	1.1	1.1	1.1	1.1	1.1
Age Sensitivity Factor	10	10	3	3	1	1
ED	0.25	1.254794521	1.254794521	1.254794521	1.254794521	1.254794521
AT	70	70	70	70	70	70
FAH	0.85	0.85	0.72	0.72	0.73	0.73
Risk for Each Age Group	1.16652E-07	1.76785E-06	3.54859E-07	3.0705E-07	4.66624E-08	4.03943E-08
Risk per million Exposed	0.116652096	1.76784607	0.354859083	0.307049962	0.046662359	0.040394281
Cancer Risk Per Million 9-years	2.24					
Cancer Risk Per Million 30-years	2.24					
Cancer Risk Per Million 70-years	2.23					

ATTACHMENT D

EMFAC 2014 Emission Rates – San Diego County (2030)

EMFAC2014 (v1.0.7) Emission Rates

Region Type: Air District

Region: San Diego County APCD

Calendar Year: 2030

Season: Annual

Vehicle Classification: EMFAC2007 Categories

Units: miles/day for VMT, trips/day for Trips, g/mile for RUNEX, PMBW and PMTW, g/trip for STREX, HTSK and RUNLS, g/vehicle/day for IDLEX, RESTL and DIURN

Region	CalYr	VehClass	MdlYr	Speed	Fuel	Population	VMT	Trips	CO_IDLEX	CO_STREX	Total CO Grams
San Diego (	2030	HHDT	Aggregated	Aggregated	GAS	192.1593755	23466.7386	3844.724785	0	41.19298884	966665.1013
San Diego (	2030	HHDT	Aggregated	Aggregated	DSL	16466.74557	2259788.643	0	4.046808838	0	0
San Diego (	2030	LDA	Aggregated	Aggregated	GAS	1523157.609	47786587.07	9630685.1	0	1.127656763	53886868.1
San Diego (	2030	LDA	Aggregated	Aggregated	DSL	19898.35765	640574.5459	126588.6442	0	0	0
San Diego (	2030	LDA	Aggregated	Aggregated	ELEC	188275.5987	6819437.344	1215636.784	0	0	0
San Diego (	2030	LDT1	Aggregated	Aggregated	GAS	111914.1351	3329391.11	679877.4028	0	1.45629085	4848561.809
San Diego (	2030	LDT1	Aggregated	Aggregated	DSL	64.04714698	1872.240751	385.563722	0	0	0
San Diego (	2030	LDT1	Aggregated	Aggregated	ELEC	44.92200108	1405.438915	277.5667549	0	0	0
San Diego (	2030	LDT2	Aggregated	Aggregated	GAS	482186.3929	15864608.95	3050991.079	0	0.828672957	13146572.41
San Diego (	2030	LDT2	Aggregated	Aggregated	DSL	1046.874858	34812.86546	6663.222711	0	0	0
San Diego (	2030	LHDT1	Aggregated	Aggregated	GAS	13827.79316	380410.2115	206013.5147	3.064605842	3.470595702	1320250.045
San Diego (	2030	LHDT1	Aggregated	Aggregated	DSL	23118.65996	703166.6542	290803.659	0.909745076	0	0
San Diego (	2030	LHDT2	Aggregated	Aggregated	GAS	4120.752271	138600.4034	61393.06892	3.126962486	2.564864341	355491.2325
San Diego (	2030	LHDT2	Aggregated	Aggregated	DSL	9756.972438	334565.6217	122730.439	0.909745076	0	0
San Diego (	2030	MCY	Aggregated	Aggregated	GAS	74294.32504	503373.3168	148573.7912	0	9.865437568	4965998.03
San Diego (	2030	MDV	Aggregated	Aggregated	GAS	276324.336	8526088.216	1715435.874	0	1.305925445	11134435.55
San Diego (	2030	MDV	Aggregated	Aggregated	DSL	6917.33947	228716.0758	43983.28474	0	0	0
San Diego (	2030	MH	Aggregated	Aggregated	GAS	7340.852746	54713.56733	734.3789087	0	5.01033238	274133.158
San Diego (	2030	MH	Aggregated	Aggregated	DSL	2036.623404	15379.25278	203.6623404	0	0	0
San Diego (	2030	MHDT	Aggregated	Aggregated	GAS	3493.06332	174715.9457	69889.2109	11.99742848	6.691492424	1169110.427
San Diego (	2030	MHDT	Aggregated	Aggregated	DSL	29524.88102	1408318.326	0	0.124110318	0	0
San Diego (	2030	OBUS	Aggregated	Aggregated	GAS	1908.378784	97329.04587	38182.8427	4.821706599	4.669667535	454494.2857
San Diego (	2030	OBUS	Aggregated	Aggregated	DSL	1103.988703	75762.86895	0	0.978022409	0	0
San Diego (	2030	SBUS	Aggregated	Aggregated	GAS	545.1147517	23773.01187	2180.459007	68.05627855	13.59481776	323189.7639
San Diego (	2030	SBUS	Aggregated	Aggregated	DSL	1230.819062	46570.80163	0	1.120054368	0	0
San Diego (	2030	UBUS	Aggregated	Aggregated	GAS	526.69993	68166.18536	2106.79972	0	16.66603403	1136059.965
San Diego (	2030	UBUS	Aggregated	Aggregated	DSL	634.3856778	82103.01395	2537.542711	0	0	0
							89623697.47				93981829.87
										CO Rate Gram/Mile	1.04862701

ATTACHMENT E

CALINE4 Output – Highway 76 / Olive Hill Road/Camino Del Rey - PM

